



Australian Government
National Capital Authority

CONSULTATION REPORT
WORKS APPROVAL 19618
BLOCK 156 DISTRICT OF JERRABOMBERRA
INFRASTRUCTURE WORKS AT MUGGA 2 QUARRY –
OFF MUGGA LANE
DECEMBER 2014

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PART 1 INTRODUCTION

Under the *Australian Capital Territory (Planning and Land Management) Act 1988*, the National Capital Authority (NCA) prepares and administers the National Capital Plan (the Plan) to ensure Canberra and the Territory are planned and developed in accordance with their national significance.

The Plan sets out the broad planning framework for the Australian Capital Territory (ACT). Areas designated as having special characteristics of the National Capital are subject to detailed planning policies and guidelines.

Any buildings or structures, demolition, landscaping or excavation works in Designated Areas require the approval of the NCA. The NCA considers such proposals in the context of the relevant provisions of the Plan.

On 22 September 2014 the National Capital Authority (NCA) received a WA application from ACT NoWaste, for infrastructure works at Mugga 2 Quarry off Mugga Lane.

The following report details the public consultation process undertaken by the NCA relating to this application.

PART 2 PUBLIC CONSULTATION REQUIREMENTS

2.1 National Capital Plan

Under the Plan, the requirements for public consultation apply, but are not limited to, certain residential developments, telecommunications facilities (that are not considered low impact) and amending or issuing an instrument under the Plan (including Development Control Plans).

2.2 Commitment to community engagement

The NCA's 'Commitment to Community Engagement (August 2011)' details how the NCA conducts consultation. The purpose is to achieve a greater level of consistency and transparency in the NCA's decision making process.

The Commitment to Community Engagement describes:

- the minimum requirements for consultation
- the timeframes for amendments to the Plan
- what is involved in preparing a new Development Control Plan
- the process for amending or issuing an instrument under the Plan
- the process by which WA applications, which are released for public consultation, will be assessed.

Part 2 Consultation Protocol of the NCA's 'Commitment to Community Engagement (August 2011)' describes the consultation process for WA applications. The consultation protocol includes criteria for which an application will be assessed, in order to determine whether the application should be released for public notification or full public consultation.

For development applications, the NCA undertakes a risk assessment of each proposal against the assessment criteria set out in the Consultation Protocol. The public notification process will include information about the NCA's risk assessment of the proposal against the assessment criteria below.

- What is the likelihood that the proposal will adversely affect existing public space and/or community amenity?

- What is the likelihood that the proposal will adversely affect existing environmental, heritage or landscape values?
- What is the likelihood that the proposal is discordant with the general development and amenity of the locality in terms of materials, finishes, scale, massing, design and quality?
- What is the likelihood that the proposal is inconsistent with an existing Heritage Management Plan (HMP)? (If there is no HMP, this question is not applicable).

The combination of the likelihood and consequence from the criteria listed will yield an overall perceived risk rating of 'negligible', 'low', 'significant', 'high' or 'extreme'. Works assessed as having an 'extreme' risk will be rejected.

Full public consultation for WAs will be required where the NCA's perceived risk rating is 'significant' or 'high', and also for any development where consultation is a mandatory requirement under the Plan.

When a WA application is lodged and consultation is required, the applicant is required to consult with the community and stakeholders. The NCA may stipulate specific requirements for consultation and, for higher perceived risk proposals, may undertake the consultation process itself.

The NCA may set aside the requirement to undertake full public consultation where:

- previous consultation has been undertaken
- for minor amendments to previously approved works
- proposals are exempt, as demonstrated in 2.3
- the NCA determines it unnecessary and no stakeholders will be affected
- The Plan has specific requirements in relation to consultation for telecommunications facility, in relation to any new towers, masts or monopoles

As the application for the development of the site was assessed at a level of risk greater than 'low', the application was subject to full public consultation.

PART 3 SUMMARY OF PUBLIC CONSULTATION

3.1 The public consultation process

The public consultation was undertaken between 13 September and 8 October 2014 and took the form of:

- On Saturday 25 October 2014 a public notice was placed in *The Canberra Times*, detailing the proposed works and inviting submissions to be made to the NCA in relation to the proposal (Attachment A),
- Between 24 October and 24 November 2014 publishing details of the proposal, including the applicant's plans and planning report on the NCA's website,
- Between 24 October and 24 November 2014 placing 2 A1 sized signs on site on the Mugga Lane frontage,
- The NCA writing to approximately 200 surrounding neighbours advising of the consultation process and inviting comments,
- The NCA writing to previously consulted stakeholders, Murrays Buses and Isaac Ridge Mount Mugga Mugga Park Care Group,
- The NCA referring the application to ACT Government agencies: ACT Heritage, Conservator Flora and Fauna, ACT Rural Fire Service, TaMS Domestic Animal Services.

3.2 Submissions Received, Comments and Response

Three written submissions were received from the community. An email of acknowledgement was sent to each submitter advising that their concerns would be considered prior to any decision being made on the proposal.

At the time of writing the ACT Heritage Council, Conservator of Flora and Fauna and the Rural Fire Service had provided comment on the proposal. These comments will be addressed in detail as part of the development assessment process but are also summarised below.

The key issues raised in the submissions and agency comments are:

1. Concern relating to the disposal of asbestos at the site
2. Potential for bush fires
3. Concern regarding the close proximity of the site to houses given proposed asbestos content of the fill
4. Noise concerns during construction and during operation of the waste disposal facility
5. Concerns as to whether Mr Fluffy homes will be disposed of at the site?
6. The habitat of the nesting Peregrine Falcons known to the area will be impacted (Conservator Flora and Fauna)
7. Need to confirm no further EPBC referral is needed (Conservator Flora and Fauna)
8. Need for further investigations of potential heritage impacts (ACT Heritage).

PART 4 - COMMENT AND RESPONSE

These key issues and the NCA response is provided below.

1. Concerns relating to the disposal of asbestos at the site, and proximity to houses, concerns relating to dust issues and proposed mitigation measures for dust management

NCA comment

It is proposed to refill the quarry using three main types of waste being Virgin Excavated Material (VENM), Beneficial Reuse Material (BRU) and Asbestos Containing Material (ACM) sourced from construction sites across the ACT where surplus material is generated. It is anticipated that the process of 'refilling' the quarry would take between 15-30 years depending on the rate of disposal. The three types of waste are described further at Attachment F.

Following filling, it is proposed that landscaping would be undertaken in order for the site to be returned to the ACT's open space network.

Site management and mitigation measures for the site will be guided by the Environmental Management Plan (EMP) prepared for the site which includes: adherence to legal work health and safety obligations, relevant environmental regulations and Acts, and risk management measures such as air monitoring, dust suppression measures and vehicle load covers and wash down bays.

The EMP will describe how ACM is to be managed. At a minimum the Environment Protection Authority (EPA) requires that asbestos waste materials be buried;

- initially to a depth of at least 0.5 metres on the same day it is received at the site; and
- finally to depth of at least 1 metre (in the case of stabilised asbestos waste in bonded matrix. For example, asbestos fibres contained within cement sheeting used in bathroom walls pre 1985 constructions

Measures for dust management of disposed material at the site include: daily wetting of material to managed dust, works to cease during windy conditions, dust particle monitoring established at the site to measure particle levels and site management practices to be adjusted accordingly.

The proponent proposes that only a small proportion of dumped fill will comprise asbestos material (as per the definition of ACM in Attachment E). The EPA license for the site will specify the proportion of each form of waste and contractors will need to operate within the limitations imposed by the EPA. This will be enforced by regular auditing.

The inherent physical features of the quarry site will ensure dust pollution is minimal by protecting the majority of the quarry works from strong winds and shielding nearby areas.

Planning and environmental legislation will provide a framework which manages the potential impacts such as noise and air pollution and importantly the composition of the fill to be disposed.

2. Potential for bush fires in the area

NCA comment

The potential for bushfires in the area is noted. Prior to any operations commencing on the site a Bushfire Emergency Evacuation Plan and Bushfire Management Plan are to be prepared and approved by the ACT Rural Fire Service. These plans will provide measures for the protection of the site and surrounding areas. The inclusion of fill at the quarry will not increase the bush fire risk.

3. Have other sites also been investigated?

NCA comment

Alternative sites in the ACT were investigated for waste disposal and none were considered suitable due to insufficient capacity and environmental limitations.

This site proved to be the most environmentally sound option compared to other sites investigated due to the potential to accommodate large volumes of waste within a single location.

The quarry also presents a uniquely stable conditions for the waste disposal due to the topography which provides a contained storage area within a mountain.

The Environmental Review report which accompanied the application proposed mitigation measures proposed as well as confirmed that the physical features of the site will ensure any potential environmental hazards faced by nearby properties is negligible.

Bonded asbestos is proposed to be disposed of at the site. Friable asbestos is not proposed for the site.

The commissioning of the Mugga 2 site will slow the rate of fill going to West Belconnen ensuring it has a longer life span and will continue to be able to accept non-bonded forms of asbestos.

4. Noise concerns – the proposed development may be noisy during construction and during operations

NCA response

A desk top noise assessment was undertaken as part of the planning investigations for the works. ACT Government noise standards for industrial zones between standard hours of operation is 65dB(A). A noise standard of 55dB(A) is used for all other times. The desk top assessment predicted worst case scenario levels generated by heavy duty construction, excavation, grading machinery. It was determined that the proposed noise level at 80m from the source is below the noise standards. The nearest dwelling is 550m from the work areas and as such noise impacts are unlikely.

The NCA will require that a further noise impact assessment be undertaken prior to any works commencing.

5. Will Mr Fluffy homes be disposed of at the site now or in the future?

NCA response

ACTNoWaste have confirmed that no materials from Mr Fluffy houses or friable asbestos will be disposed of at the Mugga 2 site. This material will be disposed of at the West Belconnen Resource Management Centre.

The commissioning of the Mugga 2 site will slow the rate of fill going to West Belconnen ensuring it has a longer life span and will continue to be able to accept non-bonded forms of asbestos.

6. The habitat of the nesting Peregrine Falcons known to the area will be impacted (Conservator Flora and Fauna)

NCA response

The proponent has prepared a report on the Peregrine Falcons which included recommendations for the falcons' relocation and protection. Alternative nesting sites will be determined in consultation with a local Peregrine Falcon expert prior to works commencing.

7. Need to confirm no further EPBC referral is needed (Conservator Flora and Fauna)

NCA response

The NCA queried the EPBC self-assessment process and the environmental consultant representing the proponent clarified the assessment process and confirmed that a referral was not required. The NCA supports this response.

8. Need for further investigations of potential heritage impacts (ACT Heritage)

NCA response

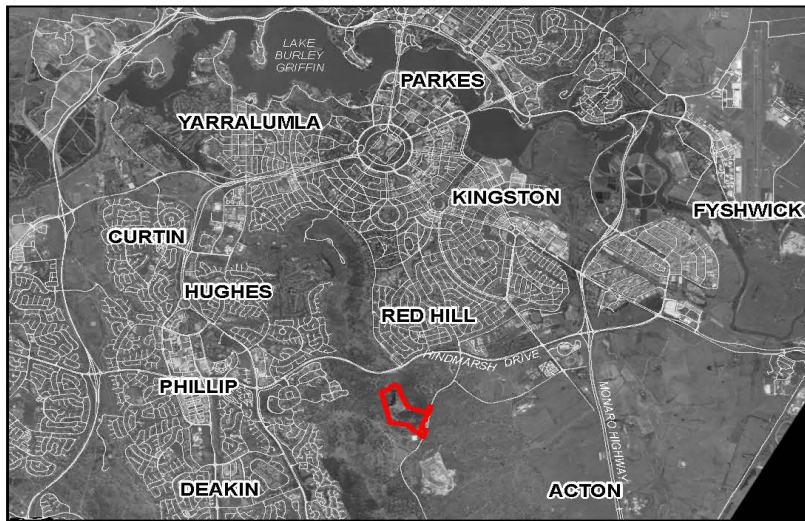
The NCA requested the proponent undertake further heritage assessment on the site in consultation with the ACT Heritage Council. At the time of writing, the heritage assessment was yet to be submitted. Any recommendations arising from the assessment will be incorporated into any works approval for the site.

Conclusion

The NCA's consultation process was carried out in accordance with the Plan and the NCA's 'Commitment to Community Engagement (August 2011)'.

Three written submissions were received in addition to ACT agency comments. The NCA is satisfied that the major concerns of the community have been addressed. The proposal is consistent with the provisions of the National Capital Plan.

Attachment A – Location plan



LEGEND

 SUBJECT SITE



WORKS APPROVAL APPLICATION - LOCALITY MAP

Attachment B - Canberra Times – public notice



Australian Government
National Capital Authority

WORKS APPROVAL

Mugga Lane - Block 156 Jerrabomberra – Mugga 2 Quarry



The National Capital Authority (NCA) has received a works approval application from ACTNoWaste for infrastructure works at Mugga 2 Quarry off Mugga Lane. The application proposes upgrades to the access road and internal driveways, reinstatement of utility services and construction of sedimentation measures, to enable use of the Mugga 2 Quarry for disposal of clean fill and Beneficial Reuse Material (BRU) with long term rehabilitation of the site and return of the land to the Canberra Nature Park system.

For comments and more information, visit the NCA's website or contact Edwina Nelson on (02) 6271 2888. Write to us at GPO Box 373 Canberra ACT 2601.

Comments close at 5pm Monday 24 November 2014.

ALL SUBMISSIONS, INCLUDING NAMES AND ADDRESSES WILL BE MADE PUBLICLY AVAILABLE AT THE NCA OFFICE AND ON THE WEBSITE, SUBJECT TO APPROVAL IN WRITING BY THE SUBMITTER, IN ACCORDANCE WITH THE NCA'S COMMITMENT TO COMMUNITY ENGAGEMENT.

COMMITMENT TO COMMUNITY ENGAGEMENT

The NCA invites public comment on its revised 'Commitment to Community Engagement'. The document sets out the NCA's approach to engagement and formalises consultation requirements.

The draft Commitment to Community Engagement is available on our website and at the NCA's offices, located at the Treasury Building, King Edward Terrace, Parkes.

For comments and more information, visit the NCA's consultation portal www.nationalcapital.gov.au/haveyoursay, send us your comments to GPO Box 373, Canberra ACT 2601, or on Twitter by using @nca_media.

Feedback is invited until 4pm AEDST on Friday 5 December 2014.

TEMPORARY ROAD CLOSURE

NATIONAL LAND ORDINANCE 1989

Applied provisions of the Roads and Public Places Ordinance 1937 as applied to National Land

DAY FOR DANIEL WALK

Notice is hereby given pursuant to Section 4 of the Roads and Public Places Ordinance 1937, of the intention to close the following roads in Parkes, ACT.

8.00am to 2.30pm Thursday 30 October 2014

- Wendouree Drive between Kings Avenue and Blundells Cottage, Parkes

Traffic in the area will be directed by detour signs and traffic marshals. Inquiries regarding these closures may be made to Rebecca Kotz, AFP on 6131 3426.

Dated this twenty fifth day of October 2014

Ruth Morschel

Delegate of the Assistant Minister for Infrastructure and Regional Development

WWW.NATIONALCAPITAL.GOV.AU

4/10/2014

Attachment C – Letter to residents



Australian Government
National Capital Authority

File No: 13/719 Job No: WA19618 Trim: 198806

The Property Owner

Dear Sir/Madam,

Block 156 District of Jerrabomberra - Mugga Lane – Mugga 2 Quarry

I am writing to advise you that the National Capital Authority (NCA) has received a works approval application from ACT NoWaste for infrastructure works at Mugga 2 Quarry off Mugga Lane.

The application proposes upgrades to the access road and internal driveways, reinstatement of utility services and construction of sedimentation measures, to enable the use of the Mugga 2 Quarry for the disposal of clean fill and Beneficial Reuse Material (BRU) with long term rehabilitation and return of the site to the Canberra Nature Park system. A site plan of the area is overleaf.

The plans and supporting documentation on the proposal can be viewed on the NCA's website at <http://www.nationalcapital.gov.au/haveyoursay/index.php/community-consultation/works-approval>

Hard copies of the application are available for viewing between 8.30am and 5pm Monday to Friday at the National Capital Authority, Ground Floor, Treasury Building, King Edward Terrace, PARKES ACT 2600.

The NCA welcomes written comments on the proposal from interested parties as part of the consultation process. Comments can be made by registering on the Have Your Say website or, if you are an existing user, by logging in. Comments can also be sent to worksapproval@natcap.gov.au or GPO Box 373 Canberra ACT 2601 by 5pm Monday 24 November 2014. All responses received will be considered before a decision is made on the proposal.

Please do not hesitate to contact Edwina Nelson on (02) 6271 2871 if you have any questions on this matter.

Yours sincerely

A handwritten signature in dark ink, appearing to read 'N. Broughton'.

Natalie Broughton
Director
Development Assessment and Heritage

23 October 2014

Building the National Capital in the hearts of all Australians

T 02 6271 2888 | F 02 6273 4427 | www.nationalcapital.gov.au | email natcap@natcap.gov.au

Couriers & deliveries: Treasury Building, King Edward Terrace, Parkes ACT 2600 | Mailing: GPO Box 373 Canberra ACT 2601

ABN 75 149 374 427

Attachment D – Copy of submissions

SUBMISSION #1

Page 1 of 1

E-mail Message

From: Carol Masters [SMTP:carolmasters7@gmail.com]
To: WorksApproval [SMTP:WorksApproval@natcap.gov.au]
Cc:
Sent: 21/11/2014 at 11:14 AM
Received: 21/11/2014 at 11:14 AM
Subject: 156 Mugga Lane, quarry 2

To Whom It May Concern

I am writing in relation to the Proposed Work to be carried out at Block 156 Jerramomberra, Mugga 2 Quarry.

Whilst I believe this to be a great project in restoring this site back to its natural state and the Box Gum tree initiative is great. But my concern is the inclusion of Bonded Asbestos Chips. I don't believe this should be included in the accepted material. I understand that bonded means exactly that, it's bonded to additional materials, the bottom line is, it is still asbestos and when dumping, fragments can and will be dispelled into the air and as studies show, even on bonded asbestos, will travel some distance before settling, watering down after the event, will not stop this happening in the first instance. I believe the compacting will only occur at the end of the day. This raises another question.

This area has also over the years had a number of bush fires. Some have been deliberately lit and other not, in saying that, if this bonded asbestos was not covered and a fire was to happen, it would be very harmful to everyone who is in close proximity.

This site is too close to houses to risk any contamination. I work for Murrays Australia, which is right next to the Quarry 2 and my health concerns are huge. I believe Mr Fluffy house will be dumped in Belconnen, what is the safe guard against parts of these houses being dumped there. Any who will police this. Unfortunately in this world not all people are abiding.

Another question I raise is what will the resurfacing be on the roads, what will the noise factor be to me whilst working in such close distance and what pollution and dust control will there be when resurfacing is underway. Along with the continuing noise, once this is up and running.

I urge you to change this redevelopment Not to include the Bonded Asbestos Chips.

Regards,

Sent: Monday, 24 November 2014 4:49 PM
To: WorksApproval
Subject: Comments regarding ACTNo Waste proposal for Mugga 2 Quarry
Follow Up Flag: Follow up
Flag Status: Completed

Dear Sir/Madam

I would like to make the following comments on the works approval application from ACT No Waste for infrastructure works at Mugga 2 Quarry off Mugga Lane.

My first comment is that I object in the strongest possible terms to the proposed dumping of material that contains bonded asbestos chips at the site. While I note that it is proposed to cover the material at the end of each day, this will still mean that for about 12 hours each day asbestos chips will be uncovered in an exposed location with a high elevation, that is prone to strong winds, and located only a few hundred metres from the residential areas of O'Malley (where my house is located), Red Hill and Narrabundah.

The May 2014 proposal summary states that the material will be covered at the end of each day "to meet EPA requirements". If this means that leaving the material uncovered during the day meets EPA requirements, then those requirements are seriously deficient, as strong winds capable of spreading asbestos do not blow only at night! The fact that the ACT Government removed Mr Fluffy asbestos from ACT homes some years ago in compliance with environmental guidelines only to find years later that contamination still existed should be a salutary lesson that environmental guidelines are not infallible.

With the knowledge we now have about the dangers of asbestos, to even consider dumping asbestos waste on an exposed site in close proximity to residential areas is nothing short of madness.

My second comment relates to noise pollution. The May summary says that noise from the site is "unlikely to be audible" in surrounding suburbs. Such lack of certainty is unacceptable - a prerequisite for any such proposal to proceed should surely be adequate testing of sound levels. Will the sound be audible or not, and if it will be audible, how loud will it be and for how long each day?

Yours Faithfully



This email has been checked for viruses by Avast antivirus software.
www.avast.com

Submission for Block 156 Jerrabomberra - Mugga 2 Quarry - Access Road and Infrastructure Works

This submission concerns the works approval application from ACT No Waste for infrastructure works at Mugga 2 Quarry for the disposal of clean fill, Beneficial Reuse Material (BRU) and other material, with long term rehabilitation and return of the site to the Canberra Nature Park system.

We are residents of East O'Malley and therefore live in close vicinity of the Mugga 2 Quarry. There are a number of concerns which we would like to raise:

(a) Monitoring of Asbestos

We note that the quarry is only 550 metres from the nearest residences located in East O'Malley. We seek reassurance that dust from the site will be adequately monitored. We note that the Borrow Pit at the West Belconnen Resource Management Centre currently has dust monitors in place and particles are tested to determine if there is asbestos present. We would expect similar monitors to be put in place not only at the Quarry but at 550 metres from the Quarry where the residences of East O'Malley are located and the results of monitoring be publicly disclosed on a regular basis. Information about what remediation will be put in place should contamination of the residential area be detected should also be provided to East O'Malley residents.

(b) Materials are planned for disposal

We note that the materials proposed for disposal at the Mugga 2 Quarry have been described (source: ACT Government's Territory and Municipal Service, *Proposed Mugga 2 Quarry Remediation - Frequently Asked Questions*) as:

- Virgin Excavated Natural Material (VENM) is clay, gravel, sand, soil and rock that are not mixed with any other waste
- Beneficial Re-use (BRU) material – is clay, gravel, sand, rock or soil contaminated with low levels of herbicides and pesticides, heavy metals and organic chemicals.
- Other Material – is material containing clay, gravel, soil, sand or rock that contains small volumes of bonded asbestos chips. (Bonded asbestos is in a large number of Canberra homes built prior to 1985. Bonded asbestos is most commonly found in the bathroom, laundry, kitchen, eaves and garage/shed of a house. Bonded asbestos does not pose a risk to human health as the fibres cannot be inhaled.)

The ACT Government's *Mugga 2 Quarry – Community Consultation Presentation (May 2014)* also suggests that "ACT needs an additional site for the safe and legal disposal of clean fill and low level contaminated material from the construction industry". What is meant by "low level contaminated material" and how is it measured? Also as described above, what is meant by "small volumes" of bonded asbestos chips ie what percentage of the load?

It is noted that the Borrow Pit at the West Belconnen Resource Management Centre is reaching capacity, and no doubt this will be accelerated with the inevitable disposal of the Mr Fluffy demolitions. What reassurance can be given that the materials from these houses which contain friable asbestos or asbestos fibres (ie non-bonded asbestos) will not be disposed of at the Mugga Quarry site? Just what components of the Mr Fluffy demolitions will find their way to the Mugga 2 Quarry?

(c) Amenity of the area

We note that it is estimated that 60 and 120 vehicles will use the Mugga 2 site daily. Such a volume of vehicles suggests noise from the Mugga 2 Quarry will no doubt be intrusive, with trucks dumping

materials, vehicles with their beeping reversing devices sounding etc. There is little evidence that any thorough noise impact study has been performed to verify assumptions that have been made by the application material.

We specifically chose this area to live in for its quietness, and paid a premium to acquire the block of land. It is very quiet during the day which we greatly appreciate as we are at home for a great proportion of the time. It seems inconceivable to believe we will not notice the disturbance that having 60 to 120 large vehicle movements occurring constantly throughout the day for the next 20 to 30 years.

Claims by ACT No Waste that noise generated will not be noticeable based on no actual real life tests are worthless.

Dumping of material will inevitably generate clouds of dust, and on windy days this could lead to large amounts of dust could be blown over our residence and garden. Mandatory guidelines should be in place which result in no dumping occurring when wind speed exceeds 10km/h.

Also one of the arguments for the remediation of the Mugga 2 Quarry is that it will result in return of the site to the Canberra Nature Park system. However, this is quite a long term prospect ie 20-30 years, and no one can ascertain or truly foresee what impact the operation of this dumping site may have on the surrounding area over such a lengthy period. A review mechanism for environmental impacts ought to be established.

As noted in the environmental reports submitted for this application by ACT NoWaste that the disturbance of the Quarry site is likely to have a detrimental impact on the Peregrine Falcons that nest in the area. This is of great concern given the Peregrine Falcon is a rare species in the ACT and has been subject of a Commonwealth Department of Environment Threatened Species Fact Sheet refer: <http://www.environment.gov.au/resource/peregrine-falcon-falco-peregrinus>. It is noted that there is a proposal to relocate the Falcons but there is no "professional advice" in the report to determine if this is a valid solution.

(d) Alternative Sites

It would be preferable to leave the site as it is undisturbed. What investigations have been conducted to determine if there are other sites away from the Canberra population that could be considered. The so-called "scar" on the side of the mountain, whilst unnatural in terms of the natural landscape is not detrimental to anyone as it currently stands. The potential risk of contamination of the nature reserve and nearby residential areas should be the paramount concern.

(e) Consultation

We are concerned that the level of consultation with the residents of O'Malley may have been only limited to notification of the residents in the street closest to the Quarry rather than the whole suburb of O'Malley.

Attachment E – photograph of sign on site



Attachment E – Description of waste types

Asbestos containing material – comprises bonded asbestos which includes products that have been manufactured from a mixture of asbestos fibres and a bonding agent of some kind, such as cement (often used as walls materials in wet areas such as bathrooms) or clay (used to make tiles for bathrooms and used around fireplaces). Because the asbestos fibres are locked in place by the bonding agent, ACTNOWaste states that these materials do not pose a risk to human health provided there are not damaged by activities such as by drilling, cutting or crushing.

Asbestos Containing Materials were widely used in construction worldwide up until the mid 1980s when the health risks associated with the cutting, drilling, and crushing of these products became apparent. Given the former widespread use of these products, it is quite common for these materials to be found around homes and businesses in the ACT as a result of inadequate clean up after renovation and demolition jobs. The material is also often found on sites where illegal dumping has occurred or in locations that were formally authorised to accept waste materials. The level of asbestos material contained within these building products is usually less than 15% fibres by weight, and can be as low as 2-3%.

Beneficial reuse material – this is soil that contains low levels of chemical contaminants such as pesticides and herbicides, heavy metals, and organic chemicals.

Virgin excavated natural material – this is often called cleanfill, and is soil that is free of contamination.