



**MINUTES OF THE THREE KINGS QUARRY LIAISON MEETING
HELD AT THREE KINGS SCHOOL HALL
ON MONDAY 17TH SEPTEMBER 2007**

Present: Winstone Aggregates Attendees:

Bernie Chote, Tony Carpenter, Richard Compton, Sari Eru,
Chris Gray, Mike Harris, Sandra Kelly

Chair: Deborah Clapshaw

Auckland City Council Attendee:

Michael McQuillan

Residents and Interested Parties:

Richard Bellamy, Alison Brown, Michael Brown, Veronica Friedlander,
Dianne Hill, Corinne McLaren, Dawn Taylor, Alisa Warburton

Apologies:

Ward Buckingham, Mt Roskill Community Board Member
Graeme Mulholland, Councillor, Auckland City Council
Austen Bell, Garry Bryant, Pat Lillis, Fred Swallow
Chris Edmonds, Winstone Aggregates

1. Confirmation of Previous Minutes

Deborah Clapshaw declared the Meeting open at 7.03 pm, and sought confirmation of the Minutes of the previous Meeting held on 18th June 2007. (Moved by M. McQuillan).

2. Matters / Actions Arising

New Staff

Bernie Chote thanked everybody for coming along and introduced the new Three Kings Quarry Supervisor, Tony Carpenter.

Page Two

Camera Location and Dust

CCTV location – it sits on top of the Foodtown building. Mr Chote then displayed the scan of the camera area on a map. It has a shroud to avoid sunstrike. It was installed in 1998. If you have a specific instance of dust in the quarry, take note of the time and the date so that file footage can be obtained and viewed. D.Taylor asked what type of filters were on the camera – and the reply was none.

Action: Investigate the possibility of installing a webcam.

Action: C. McLaren to ask Mr A. Bell to send Winstone Aggregates the date in question re his dust complaint in order for the images from that particular day to be viewed, photos printed and sent to him. The photos will also be added to the website.

Action: S. Eru to source photos from more windy days (e.g. south westerly and nor easterly winds), when the impactor was in operation, ready for the next meeting.

Differential Settlement

M. Harris displayed a table depicting differential settlement alarm values and what actions are taken when figures are higher. A copy of these figures were included in the Minutes of the last Meeting as Attachment C. It was noted that Residents would be notified of a settlement trigger if a differential settlement steeper than 1:2000 was recorded.

Land Ownership

The Winstone Aggregates block was displayed on a map, which also showed the land owned by the Auckland City Council. Richard Bellamy advised that some of the land, e.g. where the water treatment plant was originally to be sited, was deemed Conservation land.

Iwi Consultation

Mr Chote explained that local Iwi were approached in 1994 regarding dewatering, but they chose not to become involved. Now believe that Pukaki Ki Te Akitai have the main focus as Mana Whenua. B. Chote has had communications with some of the Iwi in the last few months, however nothing regarding Three Kings has been raised. R. Compton advised that, strictly speaking, the Crown (e.g. Councils) should be consulting with Iwi but Winstone Aggregates considered it appropriate they also consult, and had established reasonable relationships with Auckland Iwi over time.

QMP (Draft Revision July 2007)

G. Bryant and M. McQuillan were sent a hard copy of this document.

Action: R. Compton to send a copy to R. Bellamy and C. McLaren.

Weed and Rodent Control

Bait stations have recently been installed around the site, along with ink pads to track the animals to their nests. S. Eru explained how the process works. Rentokil was the previous contractor. Connovation Ltd are the new contractors.

When reviewing the degree of weed control, it was noted that if all of the vegetation was removed, there would be an affect on dust control.

Action: Wattle in the bunds should be eradicated.

Action: Check the bund for rubbish (behind the fence).

Page Three

Blasting

Nothing planned, however may need some done on the basalt for rehabilitation purposes.

C. McLaren thanked Mr Chote for the quick time in answering the questions raised.

Managed Fill – Recap

B. Chote displayed a slide regarding timeframes involved in the process.

Action: C. McLaren spoke about a copy of a letter she believes was sent to C. Scullin regarding final end use of the land and open spaces. However, Mr Compton believes the letter was addressed to him. Both parties to locate a copy of the letter.

M. McQuillan spoke of the Council's processes for creating open spaces. R. Bellamy raised the matter of Consents regarding managed fill, and Mr Chote advised that we require Consent, and have to consider other matters such as ground and surface water management.

Mr Chote then reported on progress since the last meeting. He spoke of the development options, including the egress points.

Option 1 – at this stage we do not know which areas will be filled first.

Option 2 – same egress, however start cleanfilling in the Southern end, with a driveway then adjacent to the house. Could have a loop road circuit.

Discussion then took place about the amount of compaction required. R. Bellamy said, from a planning point of view, he would like to know what the end use of the land will be, and he quoted Gordon Hunter Quarry as an example. Mr Bellamy raised this same point several times throughout the meeting (i.e. end use of the land). Mr Chote said that reviewing the end use at this stage would delay the start of the filling process by around three years.

C. McLaren commented that the community wants to see more open spaces in Auckland, then asked what type of fill would be put in if the Council decided that it wanted to purchase some, if not all, of the site. Mr Chote advised Mr Bellamy that a lake could be put in several different locations. Traffic consultants have suggested that Option 2 would be the safest route, i.e. a loop road circuit.

Winstone Aggregates currently manages two other quarry fill sites; one at Puketutu Island in Mangere, and the other at Dry Creek in Wellington. Mr Chote outlined what managed fill materials consist of, and the process for determining these, checking processes, testing procedures etc.

A revised timeline was then shown and revisions explained. If Winstone Aggregates did not get consents to cleanfill, then they would appeal to the Environment Court. If Winstone Aggregates continued to quarry, then it would take longer to eventually fill in the hole.

Mr Bellamy suggested Winstone Aggregates should try to persuade the Council to jointly put together a planning team to discuss the end use of the land.

3. Site Monitoring Report

M. Harris presented his report for September 2007:

Groundwater Levels

- Groundwater levels in the quarry are currently being held above RL34m.

Precise Level Surveys

- A survey of all precise level benchmarks was completed in April 2007. Precise level surveys are currently being undertaken at annual intervals. The next precise level survey will be undertaken in March 2008.

Air Quality Monitoring

- Air quality monitoring results over the winter period (June to August) were all pretty good.
- 47 samples were collected, all of which were less than 80mg/m³ per 24 hour period.

Review of TSP Monitoring Plan

- An application was made to the Auckland Regional Council in August 2006 to review the monitoring requirements in the TSP Monitoring Plan. The proposal is to replace a Hi-Vol TSP Sampler and the Mini-Vol TSP Sampler with a Continuous Beta Gauge Monitor.
- The procedure for changing the TSP Monitoring Plan is to engage a TSP Monitoring Advisor who would then undertake a review of the TSP Monitoring Plan and make any recommendations as appropriate.
- An independent TSP Monitoring Advisor was appointed (Kevin Rolfe) and he reported back in April 2007 with his recommendations.
- The Recommended TSP Monitoring Plan was forwarded on 30 April to Three Kings United Group and South Epsom Planning for their review, which was required to be completed within a month of receiving the report.
- The ARC approved the revised Monitoring Plan in July subject to retaining the Hi-Vol TSP sampler on the northern boundary (as well as the Hi-Vol TSP sampler on the roof of the Quarry office).
- Appropriate changes will now be made to the Three Kings Quarry Air Quality Management Plan to incorporate the recommended changes.
- The continuous monitor is scheduled to be installed mid November.
- A copy of the updated Air Quality Management Plan will be posted on the Winstone Aggregates website (under Three Kings Quarry).

Mr Bellamy asked whether some thought had been given to the dust problem which may be exacerbated by filling - therefore will the monitoring equipment handle this type of testing? Mr Harris replied we have procedures to dampen down stockpiles and roads. Mr Bellamy then asked whether there was any data from Lunn Avenue? Mr Chote replied we have tried to obtain information in this regard, without success, however our own standards would be used. Water carts are the main method used to control dust. A visit to the fill operation at Puketutu Island could be arranged if required.

4. Quarry Complaints

C. McLaren said it is difficult to find the Three Kings information on the website. However, Mr Chote advised we are looking into this issue. In the meantime, residents were advised that they could also use the "search" function.

5. General Business

Next Meeting

Should we hold a meeting prior to Christmas, perhaps either 12th or 19th November? Winstone Aggregates will be sending out information (which was discussed today) regarding the filling etc. to the whole neighbourhood. C. McLaren suggested holding the next meeting in February 2008. Mr Bellamy feels that the timeline shows Winstone Aggregates will be fairly locked into things before the community has a chance to be consulted and discuss these issues. Therefore, he feels that knowing the end use of the land is necessary. He wants the ACC / ARC / DOC / Winstone Aggregates and other parties to get together to discuss these matters. Mr Chote feels that the plan change process is the way to deal with things. Three Kings United would be happy to attend any full scale meetings. C. McLaren wants the advertisements in the newspaper to be changed to read "to discuss the future or end use / filling of the quarry". Winstone Aggregates cannot decide alone what to do with the land; it would have to consult during the processes of getting the relevant planning approvals and Resource Consents.

Action: Amend newspaper advertisements.

Date of Next Meeting : Monday 11th of February 2008

Meeting declared closed at 8.55 pm

Attachment: Copy B. Chote presentation



Winstone Aggregates Three Kings Quarry Proposed Managed Fill Plan

Update

Sept 2007



- **Agenda**

Review action items from last meeting

Camera location

Settlement notification

Land ownership

Iwi consultation

QMP

Weed and pest control

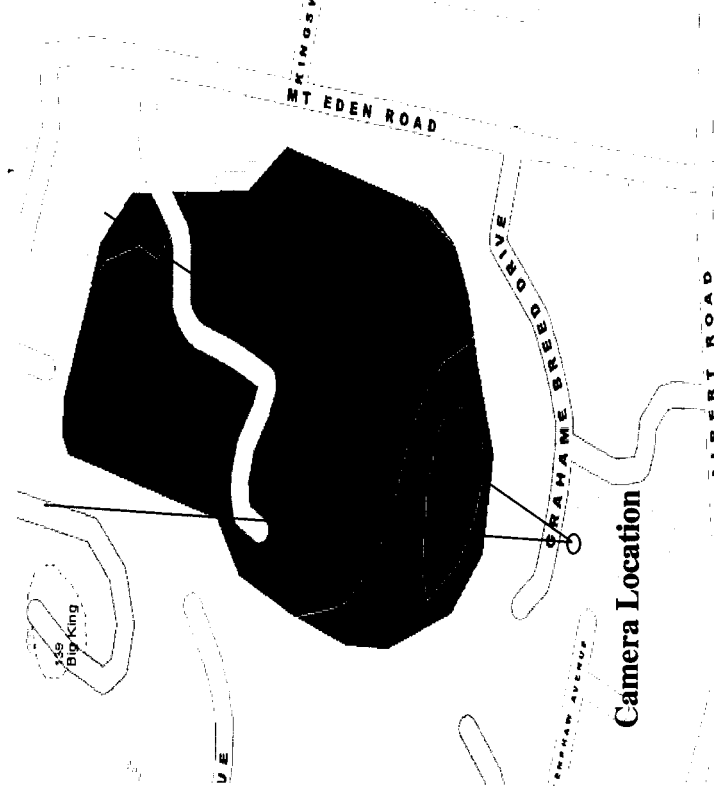
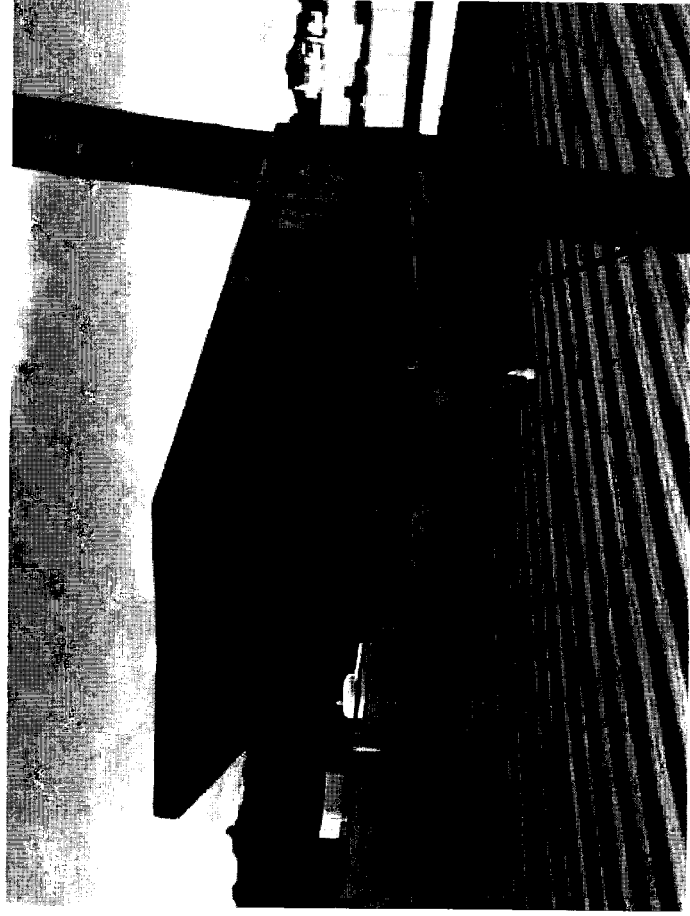
Update

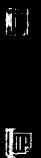
Sept 2007



CCTV Camera Location

- CCTV camera was placed on the roof of Foodtown on the 12th of March 1998.
- The Institute of Environmental Science & Research found this site most suitable as it provided the broadest view of the quarry.
- Also the North facing location meant there would be little sun strike. A cover was also placed over the camera to assist in eliminating sun strike.





LOCATION

Location

RECORD

From 11-01-2006

05:30:00

To 11-08-2006

20:29:58

CHARTER

Normal

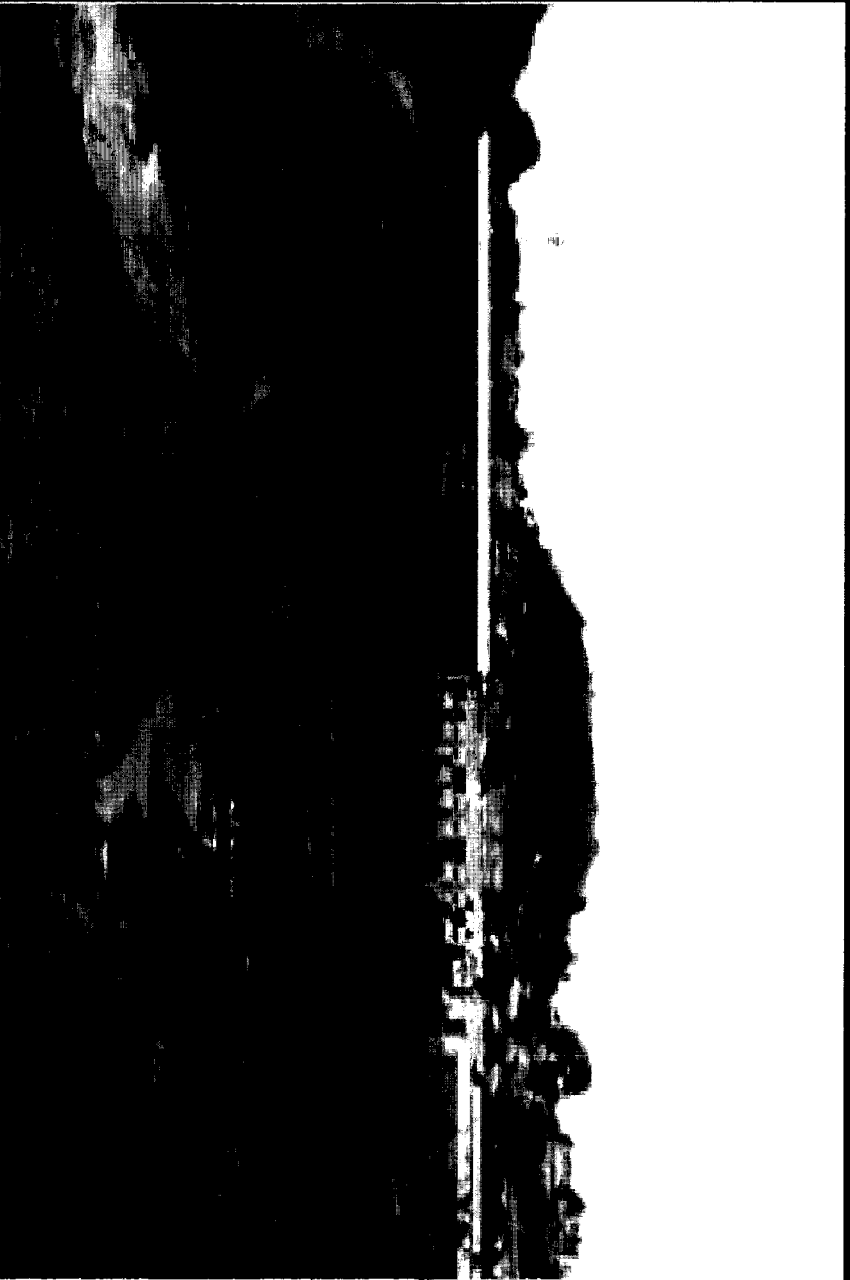
CAMERA 1111

Three Kings

11-01

11-01-2006

12:55:33



PLAYER

OSD

1 November 2006, 12.55pm

Production: 557m³

Sales: 431m³

Fine, with a south westerly breeze



LOCATION

Location

REPORT

From 11-01-2006
05:30:00

To 11-09-2006
20:29:58

ENCODING

Normal

CAMERA TITLE

Three Kings

TIME

11-02-2006
14:48:05

PLAYER



2 November 2006, 2.48pm
Production: 570m3 Sales: 577m3

Fin



LOCATION:

Location

RECORD

Frame 11-01-2006
05:30:00

11-09-2006
20:29:58

FUNCTION:

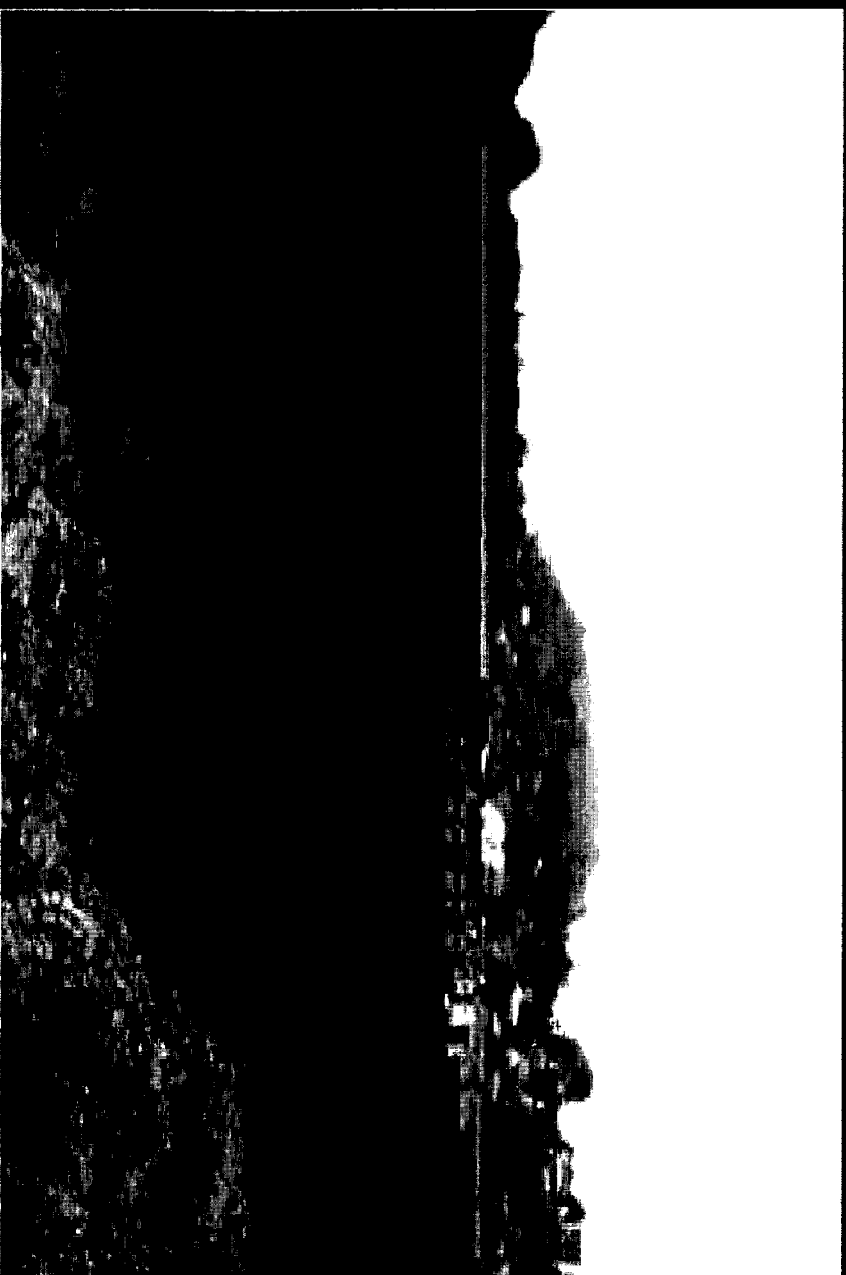
Normal

Camera 1211

Three Kings

LINE

11-03-2006
13:58:35



PLAYER



OSD



3 November 2006, 2pm

Production: 513m³

Sales: 408m³

Fine, with some cloudy patches and easterly breeze



LOCATION

Location

RECORD

From 11-01-2006
05:30:00

To 11-03-2006
20:29:58

DESCRIPTION

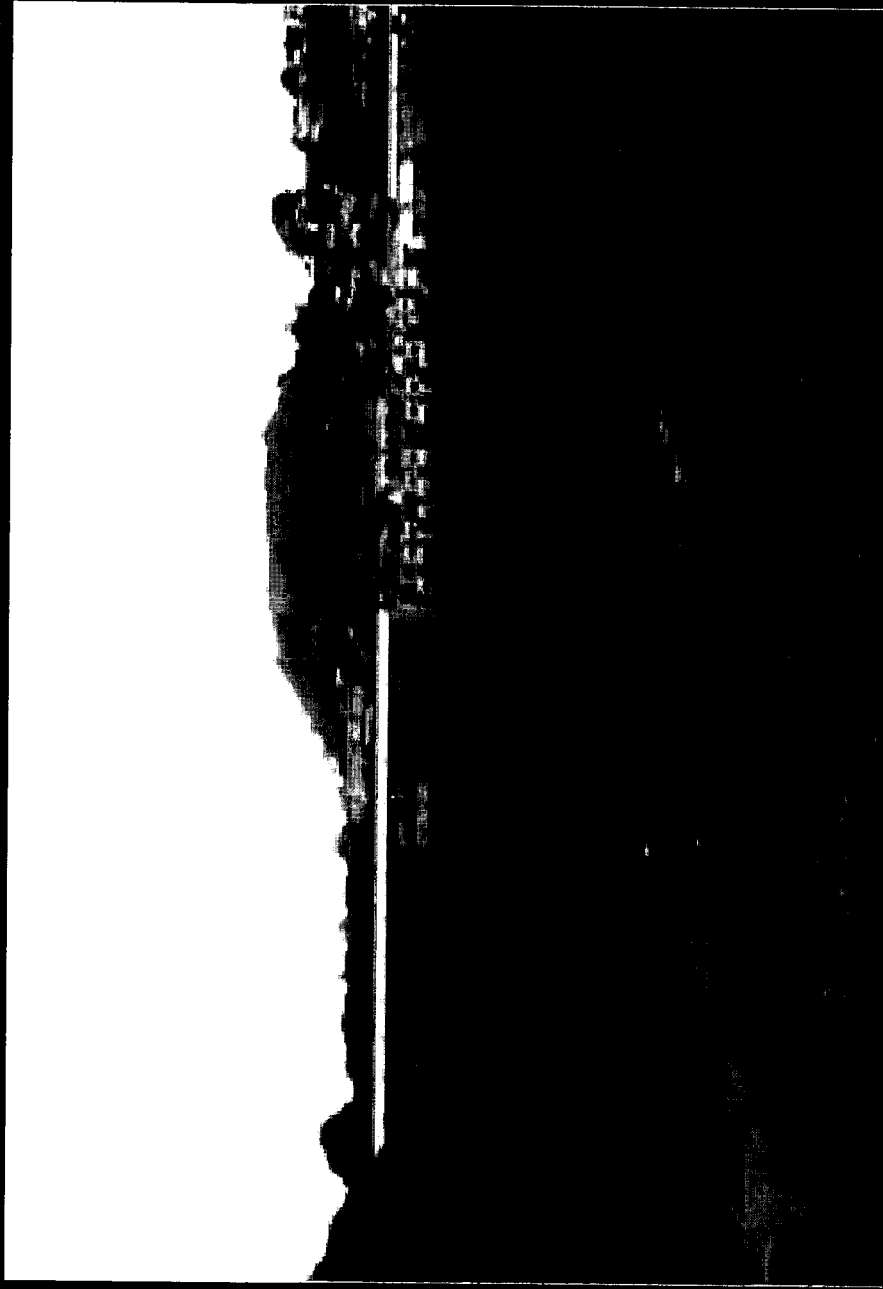
Normal

CAMERA TITLE

Three Kings

TIME

11-06-2006
12:51:01



PLAYER

OSD

6 November 2006, 1pm

Production: 0m³ Sales: 435m³

Cloudy with small showers, westerly winds



LOCATION

Location

RECORD

From 11-10-2006
05:30:00

To 11-29-2006
20:29:57

DESCRIPTION

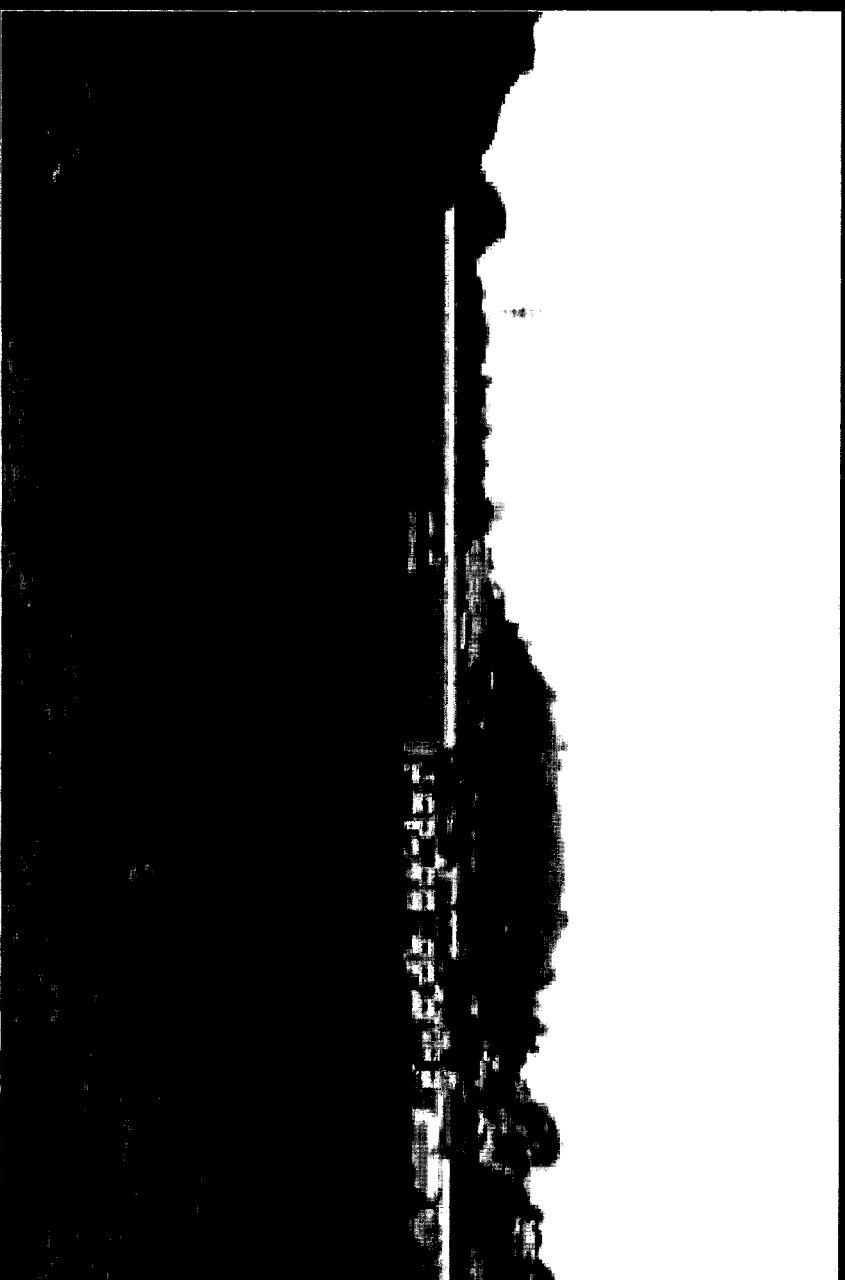
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CAMERA TITLE

Three Kings

TIME

11-11-2006
13:00:00



PLAYER



OSD

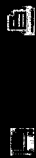


11 November 2006, 1pm

Production: 300m³

Sales: 9m³

Fine with some cloud, westerly breeze



LOCATION

Location

RECORD

From 11-10-2006
05:30:00

To 11-29-2006
20:29:57

DESCRIPTION

Normal

CAMERA FILE

Three Kings

TIME

11-28-2006
13:05:52



CH003



PLAYER

28 November 2006, 1.05pm

Production: 608m³ Sales: 349m³

Fine with some showers, south westerly winds

Notification of Residents Adjacent to a Differential Settlement Alarm

(As set out in the Three Kings Quarry – Monitoring and Contingency Plan for Ground Subsidence)

Differential Settlement

Differential settlements between adjacent surface level monitoring points will be calculated following each precise level survey. Differential Settlement Alarm Values are defined as set out in the following table.

Differential Settlement Alarm Values	
Trigger Status	Measured Differential Settlement
Trigger for Installation of Additional Survey Marks	1:5,000
Trigger to Halt Dewatering and Assess Impact of Settlement on Buildings and Services	1:2,000
Trigger to Cease Pumping	1: 1000

Where differential settlements between surface level monitoring points exceed Differential Settlement Alarm Values as a result of the exercise of the consent to dewater Three Kings Quarry, the following will be implemented:



At a differential settlement steeper than **1 in 5,000**, in the area affected:

- Install additional surface level monitoring points at 50metre centres between existing survey marks.
- Report the settlements to the Quarry Manager and the Auckland Regional Council.

At a differential settlement steeper than 1 in 2000,

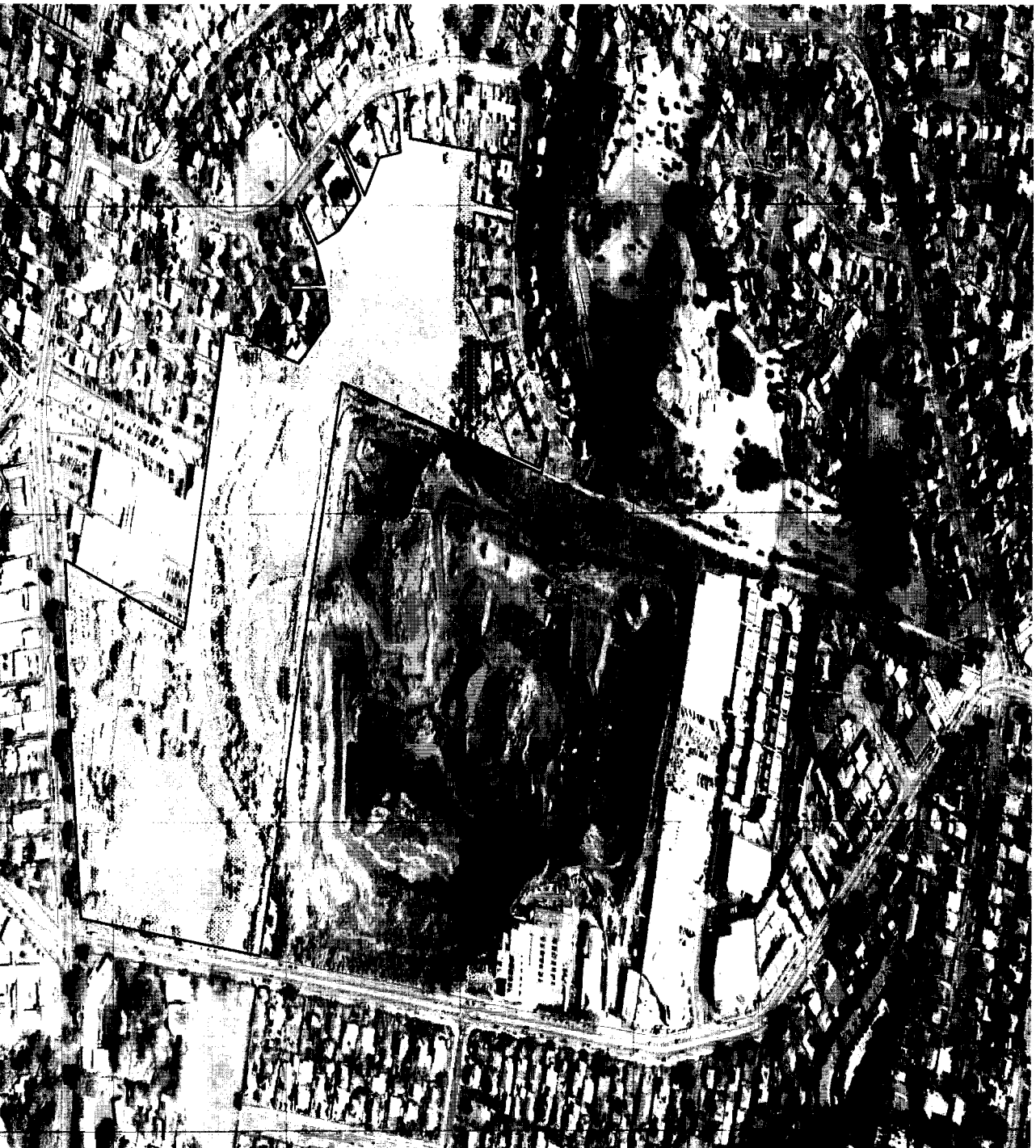
- cease lowering the groundwater (as measured in the quarry reference bore) and, in the area affected:
- Install additional survey marks at 25metre centres between existing survey marks.
- Report settlements to the Quarry Manager, the Auckland Regional Council, affected property owners and the following Community Groups and Community Boards: South Epsom Planning, Three Kings United, Epsom Environmental Effects, Mt Roskill Community Board, and Eden-Albert Community Board.
- Assess the potential impact of ongoing settlement on buildings and services.
- Undertake a review of the groundwater model and settlement predictions.
- Report assessment to the Quarry Manager, the Auckland Regional Council and property owners.
- The frequency of survey monitoring will be increased to 3-monthly until no further settlements are recorded.

At a differential settlement steeper than 1 in 1,000:

- The taking of groundwater authorised by the consent to dewater Three Kings Quarry will cease immediately. Pumping of groundwater will not recommence without the permission of the Auckland Regional Council.
- Report settlements to the Quarry Manager, the Auckland Regional Council, property owners in the area affected and the following Community Groups and Community Boards: South Epsom Planning, Three Kings United, Epsom Environmental Effects, Mt Roskill Community Board, and Eden-Albert Community Board.
- Assess the potential impact of ongoing settlement on affected structures.
- If settlements cause damage in breach of special condition 11 of the consent to dewater Three Kings Quarry, then any damage will be assessed and repaired in accordance with special condition 21B.



Auckland City Council Controlled Land South of Three Kings Quarry



Iwi Consultation and QMP update

Local iwi =

Historic consultation =



Rodent Control

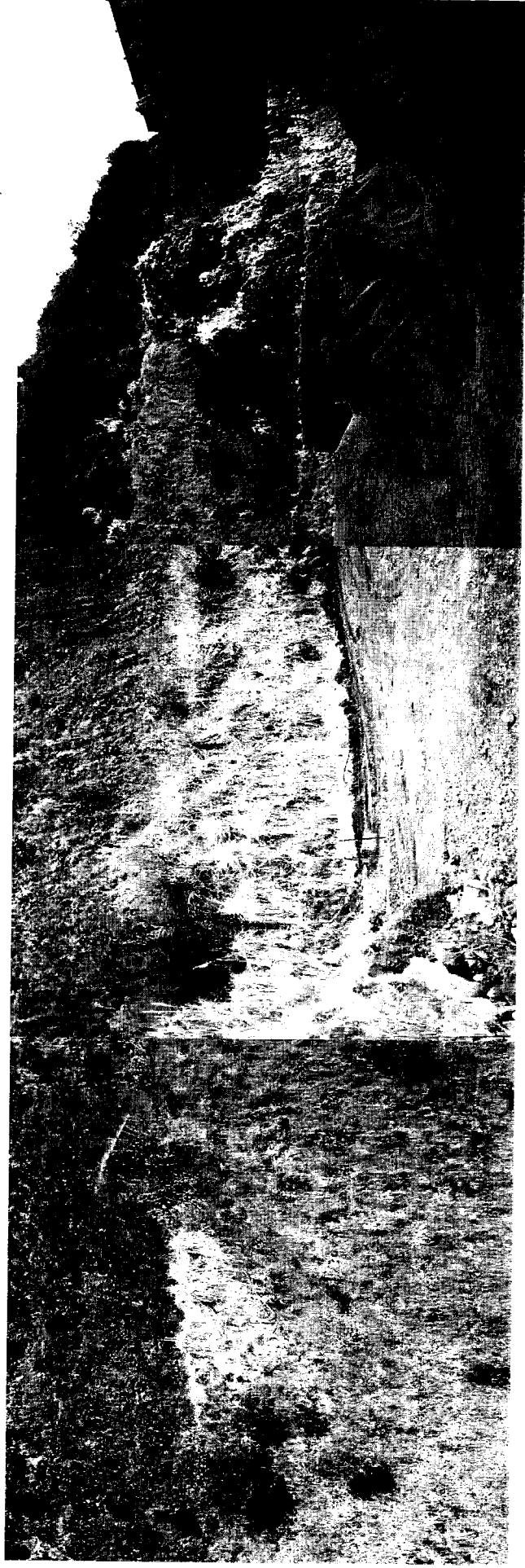
Control programme in place to determine rodent populations, any sources of infestation and rodent eradication

- 25 tracking tunnels placed throughout the site
- Rodents are naturally drawn to tunnels as a defence mechanism, and along with bait they find these tunnels irresistible
- Tracking cards determine population on a presence / absence basis, and once habitats are identified these can be targeted for eradication
- A first generation coagulant is used in biodegradable pellets which are placed inside tunnels for ingestion



Weed Control

- Pampas, Gorse and general broadleaf species were targeted using Agpro Glyphosphate, a general approved herbicide containing a gelling agent. This was applied by a licensed agrichemical operator.
- Proved efficient in targeted weeds while maintaining as much wanted groundcover as possible.
- Ongoing program of spraying throughout the site



Managed Fill - Recap

- Winstone Aggregates has resource consents to quarry at its Three Kings Quarry to RL0. Including rehabilitation of the site this would take a further 20 to 30 years.
- Winstone Aggregates has begun consultation on a proposal that could result in completion of quarrying and rehabilitation of the site in a timeframe of approximately 10 to 15 years.
- The proposal would require additional resource consents from Auckland City Council and Auckland Regional Council to provide for 'managed filling'
- 'Managed fill' consents alone will not change the currently authorized quarry use.
- The site would have to be rezoned, and require further resource consent, before any future development and use would be permitted.

Recap

- Winstone considers there are **three** key processes which ideally would run concurrently:
 1. Winstone obtains consents to begin rehabilitation of the site by ‘managed fill’ and hence commences filling operations while continuing to quarry for a time;
 2. Auckland City Council leads a planning process for their adjoining reserve land which Winstone believes will ensure improved integration and a better outcome in terms of useable land;
 3. Interested parties could participate in the process relating to future zoning and authorized land use activities on the Winstone land after it has been rehabilitated through the District Plan review which is due in the next year or so.

Progress Since Last Meeting

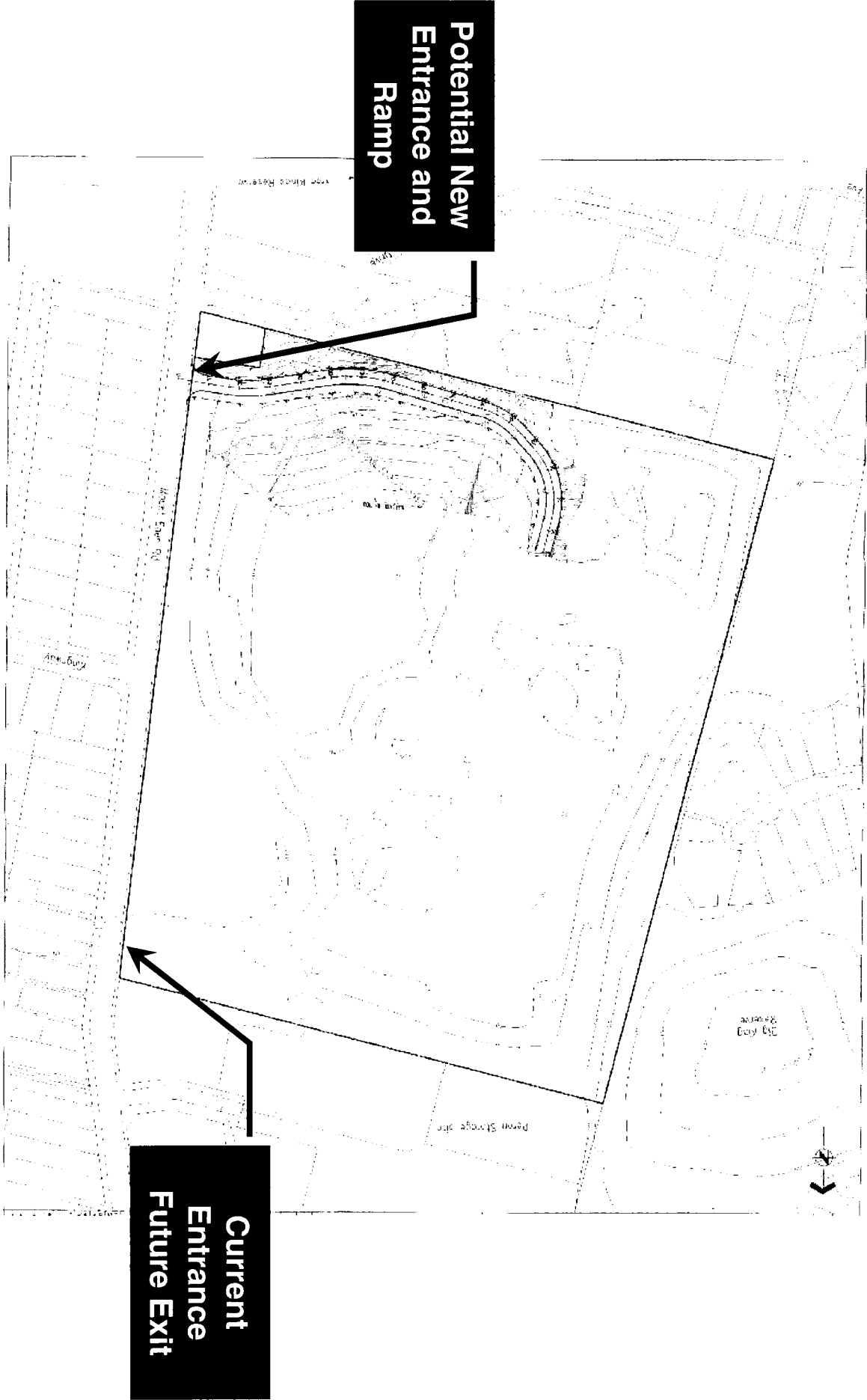
Concept plans for the initial operation of the managed fill have been developed

- **Key issues revolve around access to and egress from site**
- **Description of managed fill process has commenced**

Initial Development Option 1

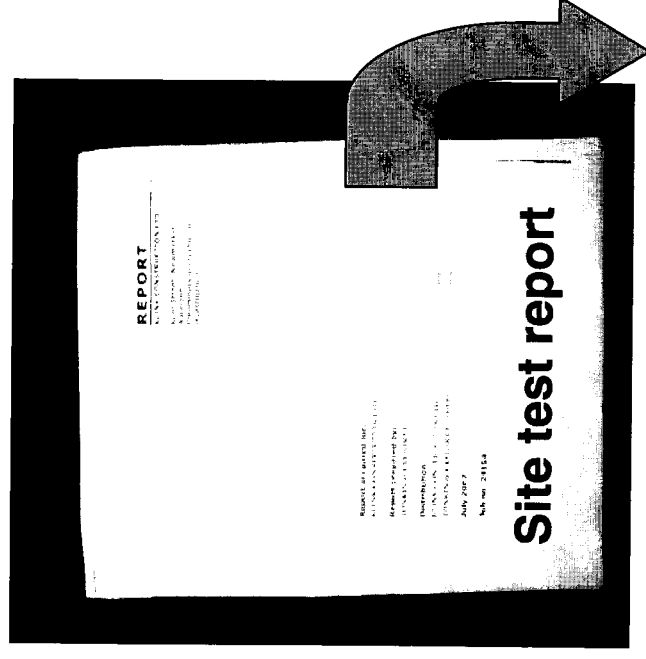


Initial Development Option 2



Offsite Control of Source Material

Large Contracts >
200 m3



Typical dig out



Site

Managed Fill Procedures on site:

