

Amanda Cleary

From: Scherer, Thomas [Thomas.Scherer@siemens.com]
Sent: Thursday, 18 January 2007 3:52 PM
To: Amanda Cleary
Subject: Draft proposal re treated effluent discharge rerouting at Kogan creek
Attachments: Proposed change of STP effluent discharge Kogan Creek Power Station.doc

Hi Amanda,

I have tried to cover all aspects, details and background information into the attached draft.

Maybe you can read through it and we then can discuss it to see whether we have missed any aspects and we have the same picture.

Best regards

Thomas Scherer
Project Manager Kogan Creek

Siemens Ltd.
Power Generation

Tel: +61-(0)7 3332 8394
Fax: +61-(0)7 3332 8448
Mobile: +61- - Personal information
E-mail: thomas.scherer@siemens.com
Internet: <http://www.siemens.com.au>

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<<Proposed change of STP effluent discharge Kogan Creek Power Station.doc>>

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Proposed change of STP effluent discharge Kogan Creek Power Station

Background:

The design of the power station has been established to have all process waters from the station being contained within the power station and its systems.

All waters from such systems (including boiler blow down, cooling tower blow down, turbine drains, wash down water, discharges from the water treatment plant, discharges from the oil separator, etc) drain into the Waste Water Collecting Pit. From here the water is used to provide water for the ash handling plant to mix the high dense slurry, which will be placed initially in the initial ash disposal area and later within the coal mine, and if required to provide water for the adjacent coal mine for dust suppression.

Only storm water falling within the power station area will leave the site and is being collected in the Drains Reclaim Dam.

Currently the STP is designed to discharge its treated effluent into the storm water system which drains into the Drains Reclaim Dam. Waters in the Drains Reclaim Dam are considered to be recycled for topping up the Waste Water Collecting Pit for the ash handling and for irrigation

The above arrangement and requirements for irrigation are covered in the current DA (G7) to (G15)

Proposal

Currently the STP treated effluents are discharged to the Drains Reclaim Dam.

The proposal would see the treated effluent being discharged to the power station's Waste Water Collecting Pit.

Discharge to the Drains Reclaim Dam with the current condition in the DA should still be an option for emergencies or if circumstances would require such a move. This, however, is considered to be theoretical only

This proposal would result in

- a) The Drains Reclaim Dam would only receive and contain stormwater
- b) Treated effluent and subsequent use and disposal will remain within the power station systems or within classified areas suitable for hazardous material, i.e. the initial ash disposal area or the coal mine.
- c) No treated effluent will have any impact on the environment outside the areas mentioned under b) and the treated effluent will remain in already controlled areas
- d) Irrigation would use stormwater only.

- e) More flexibility in irrigation and recycling of the water in the Drains Reclaim Dam.
- f) Reduced impact to the environment.

Effect on the current DA.

- a) Condition (G12) to (G14) should be made conditional and should only apply if the licence holder uses the Drains Reclaim Dam to store treated effluent in the Drains Reclaim Dam. Otherwise no conditions are required.
Condition (G14) may require some adjustment.
- b) Notice shall be given to the EPA if the treated effluent is being rerouted to the Drains Reclaim Dam latest within 7 days of commencing discharge into the Drains Reclaim Dam. No water should be used for irrigation once discharge of treated effluent to the dam has commenced up to such a time the irrigation management plan has been established and/or updated, as the case may require,

or

the Drains Reclaim Dam water has been substantially been recycled back to the Waste Water Collecting Pit and the dam is substantially emptied.

(Note: it is also considered that the above case sees treated effluent being discharged to the Drain Reclaims Dam without irrigation from the dam during that period.)

Notice shall be given to the EPA once the treated effluent discharge is reinstated for discharge to the Waste Water Collecting Pit and the Drains Reclaim Dam water is has been substantially cleared from waters containing treated effluent.

- c) For the discharge of the treated effluent into the Waste Water Collecting Pit no further monitoring or reporting is required.

Further consideration and information.

It is understood that any of the conditions related to the STP as such remain unchanged.

For any irrigation appropriate consideration will be applied to address erosion control, etc.

Discharging the treated effluent into the Waste Water Collecting Pit also has other positive aspects. The process throughput into this pit, which mainly blow down of the wet cooling tower, and additional water from the Lagoon Gully bore is minimum approximately 1000m³ per day. But it can increase to about 1500m³ per day if the coal mine requires water.

On the other side the maximum throughput from the STP is 10m³ per day. It is expected that normally the plant will only operate on partial load.

This means that we have a dilution factor of 1:100 with a storage time in the pit of less than a day.

In case of problems with the STP the consumption of water leaves little time for any issues with the water and the residual chemicals from the cooling tower dosing will also suppress any growth.

EHP RTI DL Release

SIEMENS

A.C.N. 004 347 880

RECEIVED
06 FEB 2007
ECSU

ECSU (EPA)
160 Ann Street
Brisbane QLD 4000

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Department	Power Generation Brisbane Office
Telephone	+61 (0)7 3332 8394
Fax	+61 (0)7 3332 8448
Mobile	+61 4 - Personal information
E-mail	thomas.scherer@siemens.com

Your reference
Dated

Our reference
Date

AUS377/0820/0970/Sche
2007-01-24

Kogan Creek Power Project STP treated effluent discharge amendment

Dear Sirs,

We herewith submit our application for a change of the DA for the Kogan Creek Power Station Lot 6 DY532.

The details and the reasons for this request for change are outlined in the attached proposal, which has already been discussed upfront with the EPA.

Based on the discussions we wish to propose to have the DA amended to accommodate the proposal. In our opinion this can be achieved by amending existing Condition G7 and allow for a new Condition for dealing with the condition of the Drains Reclaim Dam.

Proposed changes to the Conditions under heading sewage treatment plant

(G7) The Drains Reclaim Dam and the Waste Water Collecting Pit are authorised for storage of treated effluent from the sewage treatment plant when effluent quality is in accordance with G8 and G9

(G new) The Drains Reclaim Dam is considered free of treated effluent if the water level has been lowered to the minimum operational level and the remaining water has a quality not exceeding the limits defined in Schedule G- Table 1.

Your approval to our request would be highly appreciated.

Receipt No. 3407
Date 12.2.7
Amount 162.30
Initials RSC

Siemens Limited
Brisbane 153 Campbell St, Bowen Hills 4006

Phone (07) 3332 8300

Fax (07) 3332 8448

I will be out of the office from 26. January and will only be back after the 12. February. If you have any questions we can clarify them after my return. Thanks for your understanding.

Yours faithfully

sch4 - Personal information

Thomas Scherer

EHP RTI DL Release

Proposed change of STP effluent discharge Kogan Creek Power Station (2007-01-20)

Background:

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Proposal

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Condition (G14) may require some adjustment.
- b) Notice shall be given to the EPA if the treated effluent is being rerouted to the Drains Reclaim Dam latest within 7 days of commencing discharge into the Drains Reclaim Dam. No water should be used for irrigation once discharge of treated effluent to the dam has commenced up to such a time the irrigation management plan has been established and/or updated, as the case may require,

or

the Drains Reclaim Dam water has been substantially been recycled back to the Waste Water Collecting Pit and the dam is substantially emptied.

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This means that we have a dilution factor of 1:100 with a storage time in the pit of less than a day.

In case of problems with the STP the consumption of water leaves little time for any issues with the water and the residual chemicals from the cooling tower dosing will also suppress any growth.

EHP RTI DL Release



Enquiries Amanda Cleary
Telephone (07) 4699 4313
Your reference
Our reference TWB3277

Environmental Protection Agency

Incorporating the
Queensland Parks and Wildlife Service

5 March 2007

Mr Tim Mortimer
Manager – Mining
CS Energy
Level 3, 66 Eagle Street
BRISBANE QLD 4001

Dear Mr Mortimer

I refer to the site visit of the Kogan Creek Coal Mine on 20 February 2007, conducted by officers of the Environmental Protection Agency (EPA) in the company of yourself, David Wilde and Andrew Zvirzdinas.

During the inspection, the following observations were made:
Some flammable and combustible liquids were not stored in accordance with condition A4-1 of your Environmental Authority (EA). Please note that all flammable and combustible liquids must be maintained in accordance with section 5.9 of Australian Standard 1940. It is recommended that until the workshop has been completed, a temporary bunding system be implemented for the storage of these products.

Treated wastewater from the sewage treatment plant is being irrigated onto soil adjacent to the plant. This ground is not vegetated, which may result in treated wastewater ponding on the surface or potentially moving off site. It is requested that a system be implemented that would ensure treated wastewater does not have the potential to move off site and a method of nutrient removal is implemented, for example growing vegetation.

A final Water Management Plan (WMP) has not been submitted to the EPA as per condition C3-1. Please submit the WMP to this office by 23 March 2007.

Please find included a CD with a copy of the photographs taken on site during the inspection as requested. The EPA thanks you for your cooperation throughout the inspection. If you have any queries please contact Amanda Cleary on telephone (07) 4699 4313.

Yours sincerely

sch4 - Personal information

Chris Hill
District Manager (Planning and Operations)
South West Queensland
Southern Region

Page 1 of 1

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TOOWOOMBA QLD
Queensland 4350 Australia
PO Box 731 TOOWOOMBA QLD
Queensland 4350 Australia
Telephone (07) 4699 4367
Facsimile (07) 4699 4399
Website www.epa.qld.gov.au
ABN 87 221 158 786



Inspection Details

Date of Compliance Inspection: 20 February 2007
Compliance Inspection Reason: Reported incident
Compliance Inspection Type: A
Compliance Level of Site: 1

Licence Holder / Operator Details

Licensee and/or Company Name: CS Energy – Kogan Coal Mine
Environmental Authority No.: ML50074

Site Address: Kogan Creek Power Station
Banana Bridge Road
Brigalow QLD 4412

Environmentally Relevant Activity:

ERA 11(a) – crude oil and petroleum storage
ERA 15(a) – sewage treatment plan (less than 100EP)
ERA 20 (b) - extraction
ERA 45 – crushing, milling or grinding
ERA 75 (a)(i) - waste disposal

Name and Position of Contact Person/s:

Tim Mortimer – CS Energy (Manager – Mining)
David Wilde – Golding (Site Manager)
Andrew Zvirzdinas – Golding (engineer)

Schedule A - General
Schedule B - Air
Schedule C - Water
Schedule D - Noise and vibration
Schedule E - Waste
Schedule F - Land
Schedule G - Community
Schedule H - Definitions
Schedule I - Maps / Plans

Report Completed By:

sch4 - Personal information

Amanda Cleary
Senior Environmental Officer

Report Reviewed By:

sch4 - Personal information

Chris Hill
District Manager (South West)
Southern Region

General description of the site and surrounding environment

The Kogan Creek coal mine mining lease (ML) 50074, is located south of Brigalow. ML 50074 consist of 2374 ha with surface rights of 2046 ha. Aberdare Collieries Pty Ltd (CS Energy) will be carrying out a non-standard mining activity, using equipment and plant having a mineral ore throughput of 500 000t or more during a year.

The lease area is traversed by one ephemeral creek, Kogan Creek and its tributary Eastern Branch Creek which report to the Condamine River to the north of the mining lease. CS Energy has approval from Department of Natural Resources and Water (NRW) to divert the Eastern Branch Creek.

The purpose of this site inspection was to observe the development of the Creek diversion works, confirm the remediation hydrocarbon contaminated area and compliance with the conditions of the environmental authority.

Works have commenced on site and coal is being extracted. Currently the hours of operation are 24 hours Monday to Friday and the loader will be working on weekends within two months, once they start providing coal to the power station.

The extracted coal is taken to the ROM (Run Of Mine) pad where it is stored in piles until the power station commences operation. The initial coal that has been extracted has shown to be higher in sulphur concentration than first anticipated. The drawback of this is that the coal will need to be mixed with lower sulphur content coal on site before being sent to the power station to ensure that the power station does not breach its air emission limits.

The coal will then be fed into the hopper and transported along the coal conveyor to the power station. The stormwater around the ROM pad is directed into the ROM pond. This pond has an overflow pipe which can not be closed. According to Mr Mortimer, the pond has been designed for a 1 in 10 rainfall event and the contents of the water would not be released to the Eastern Branch Creek unless it was in accordance with the EA conditions. If the quality of the water does not meet EA requirements then it would be pumped to another dam or into the pit.

The diversion of the tributary Eastern Branch Creek has commenced and will be completed by the end of March 2007. The diversion drain has been lined with geo-fabric and covered with blue stone (rip wrap). A levee has been constructed along the length of the diversion and covered in top soil. The levee is approximately 5m wide which allows vehicles to travel on top of it. On the creek side of the levee the area will be rehabilitated with native vegetation. Water from rainfall has ponded on the mine side of the levee; this will be eventually pumped back into the Eastern Branch Creek.

The rabbit proof fence has been diverted around the site by CS Energy.

Non-compliances and/or new identified issues

Workshop area

The site only has a temporary workshop at the present. A wash down bay with oil waste separator will be included in the permanent workshop area.

Most petroleum products are banded however there were some 200L stored uncovered and not banded in accordance with condition A4-1.

- (A4-1) *Spillage of all flammable and combustible liquids must be contained within an on-site containment system and controlled in a manner that prevents environmental harm (other than trivial harm) and maintained in accordance with section 5.9 of Australian Standard 1940:2004.*

All flammable and combustible liquids must be maintained in accordance with section 5.9 of Australian Standard 1940. A temporary bunding system must be implemented for the storage of these products whilst the workshop is being constructed.

On 7 February 2007 approximately 3000 litres of diesel was spilt onto the ground at the mines refuelling facility. The spill was contained in the immediate area. The spill resulted from when a truck that was being fuelled by the serviceman was left unattended and as a result the diesel overflowed when the trucks tank became full.

Approx 8 cubic metres of contaminated material has been removed from the spill area and replaced with new material. Enviro-absorb has been mixed with the contaminated soil and after a suitable period the material will be placed in the out of pit dump approximately 15m above natural surface and eventually will have approx 15m of material above it. The incident area appeared to be remediated at the time of inspection.

Sewage treatment plant

Treated wastewater from the sewage treatment plant is being irrigated onto soil adjacent to the plant. There is a sign indicating that the area is being irrigated with treated wastewater. This ground is not vegetated, which may result in treated wastewater ponding on the surface or potentially moving off site.

A system needs to be implemented that would ensure treated wastewater does not have the potential to move off site and a method of nutrient removal, for example growing vegetation.

Water management plan

A final Water Management Plan (WMP) has not been submitted to the EPA as per condition C3-1.

- (C3-1) *Within the twelve months from the date the environmental authority takes effect, the holder of this environmental authority must develop and implement a Water Management Plan to be managed through the Plan of Operations.*

The client have been requested submit the WMP to this office by 23 March 2007

Recommendations

Send attached letter highlighting concerns and actions required to be taken.

Attachments

Photos



petroleum storage container 1.jpg



Petroleum storage container 2.jpg



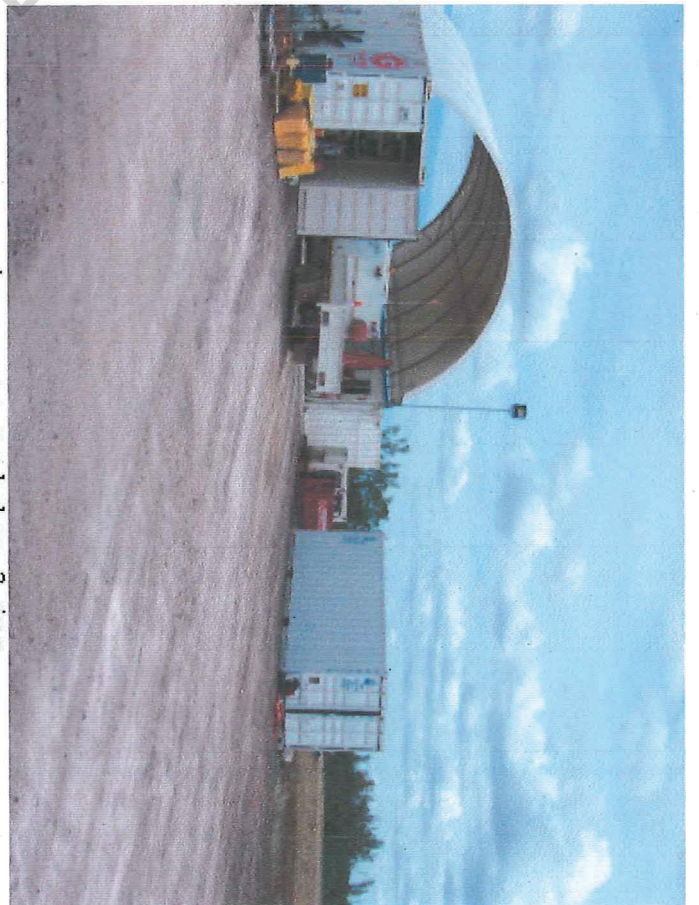
temporary workshop area 1.jpg



temporary workshop area 6.jpg



temporary workshop area 5.jpg



temporary workshop 3.jpg



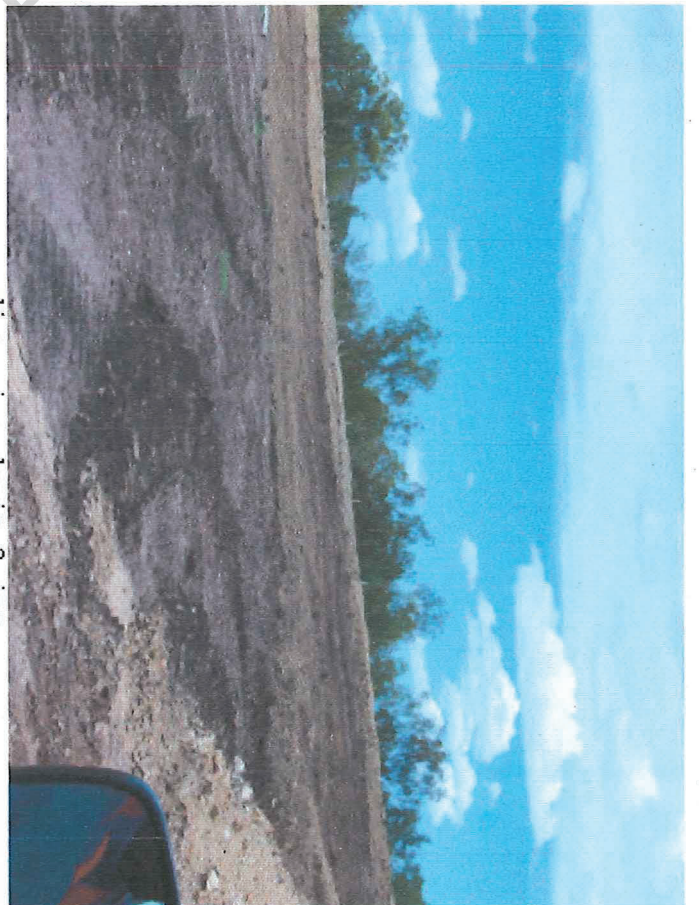
combustable liquid storage.jpg



petroleum storage container 3.jpg



75t truck.jpg



diversion drain 3.jpg



looking from bund into kogan creek 1.jpg



looking from bund into kogan creek 2.jpg



rainfall on mine side of levee bank. jpg



area to be rehabed next to bund. jpg



rip wrap on diversion drain. jpg



diversion drain 1. jpg



diversion drain 2.jpg



diversion works .jpg



diversion drain 4.jpg



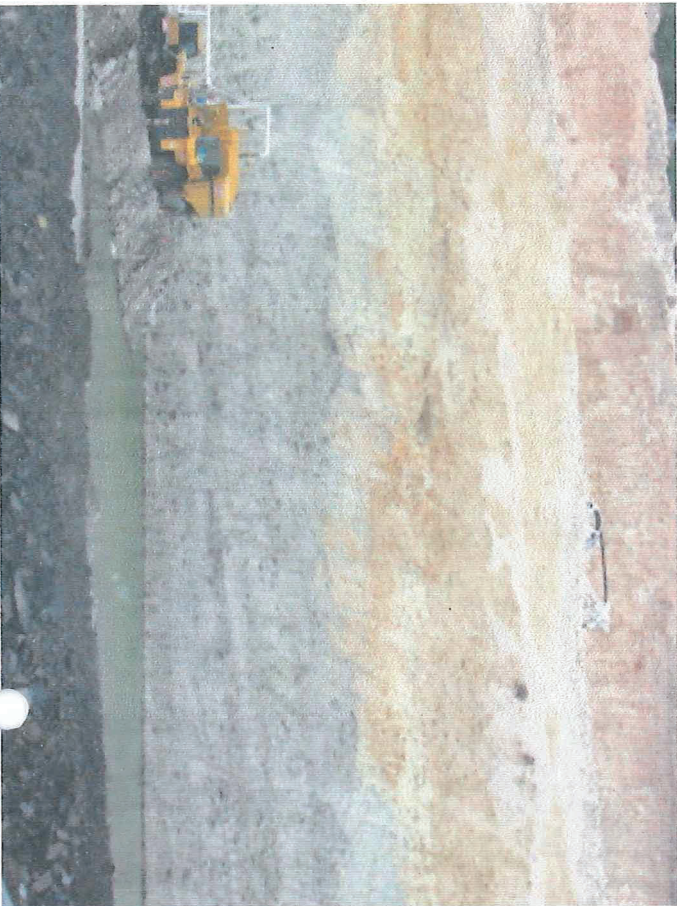
stripping topsoil.jpg



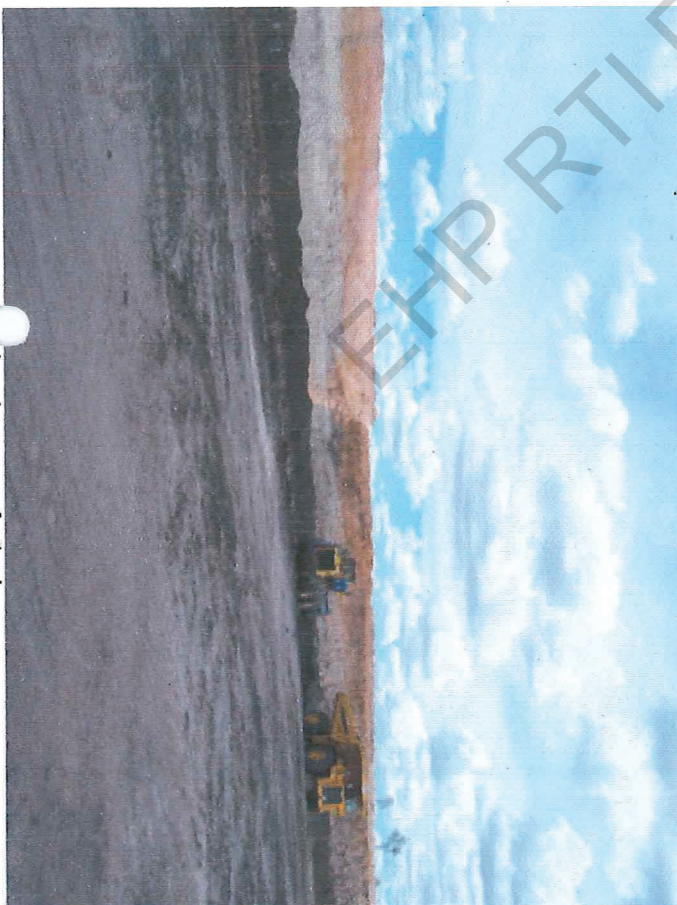
tyre storage.jpg



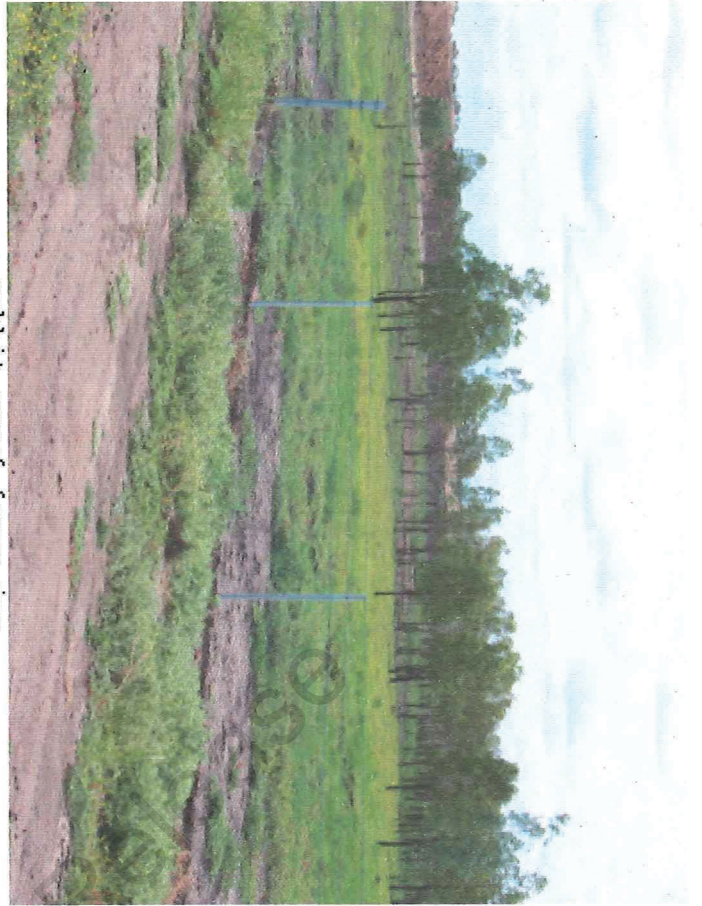
140t coal truck.jpg



water collection in coal pit.jpg



stripping coal 1.jpg



rabbit proof fence.jpg



coal formation.jpg



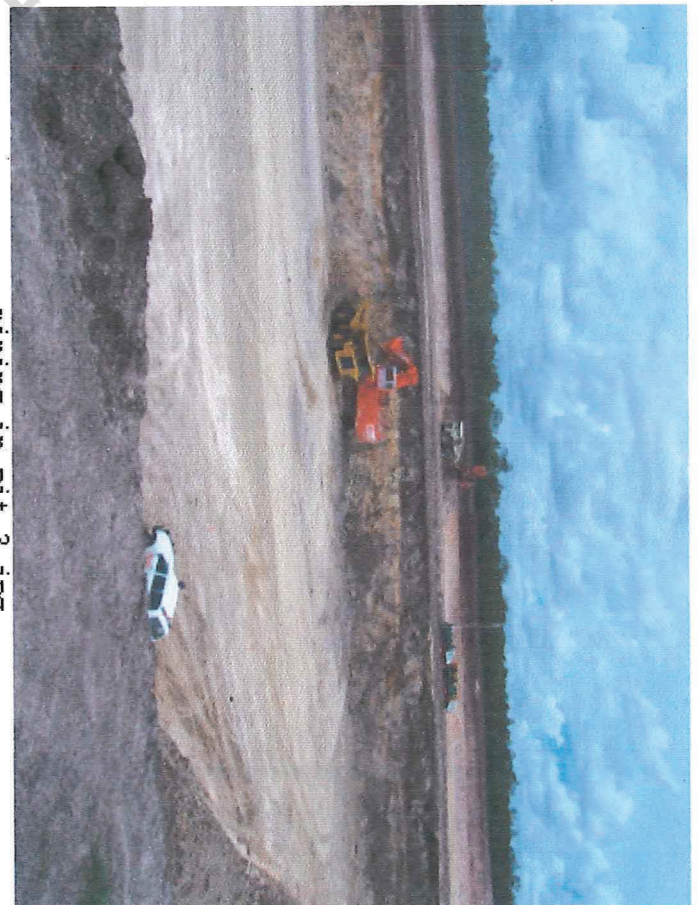
mining in pit 1.jpg



mining in pit 5.jpg



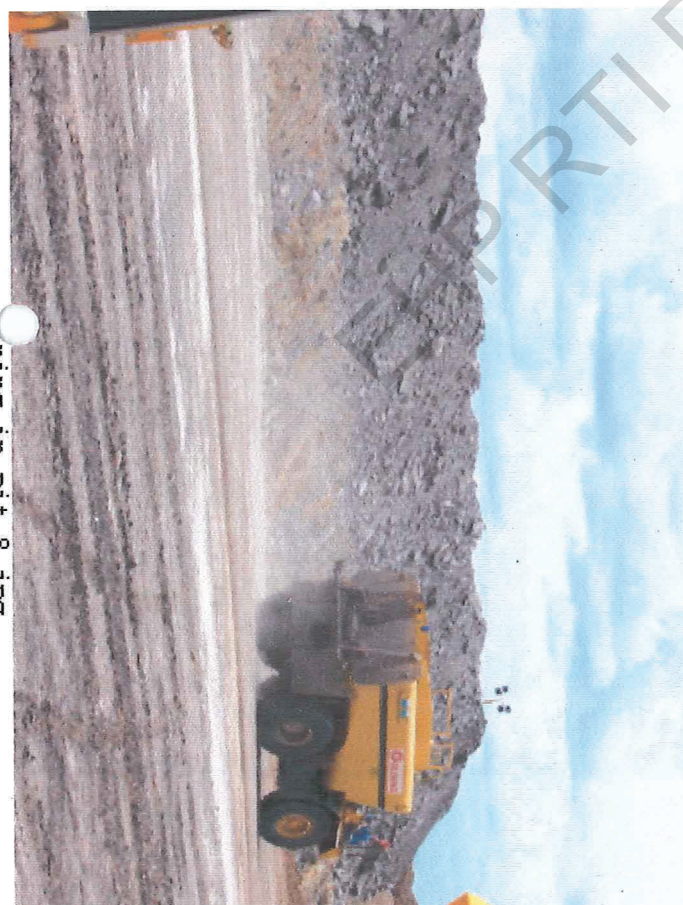
mining in pit 4.jpg



mining in pit 3.jpg



mining in pit 7.jpg



mining in pit 8.jpg



mining in pit 2.jpg



coal stockpile on ROM pad.jpg



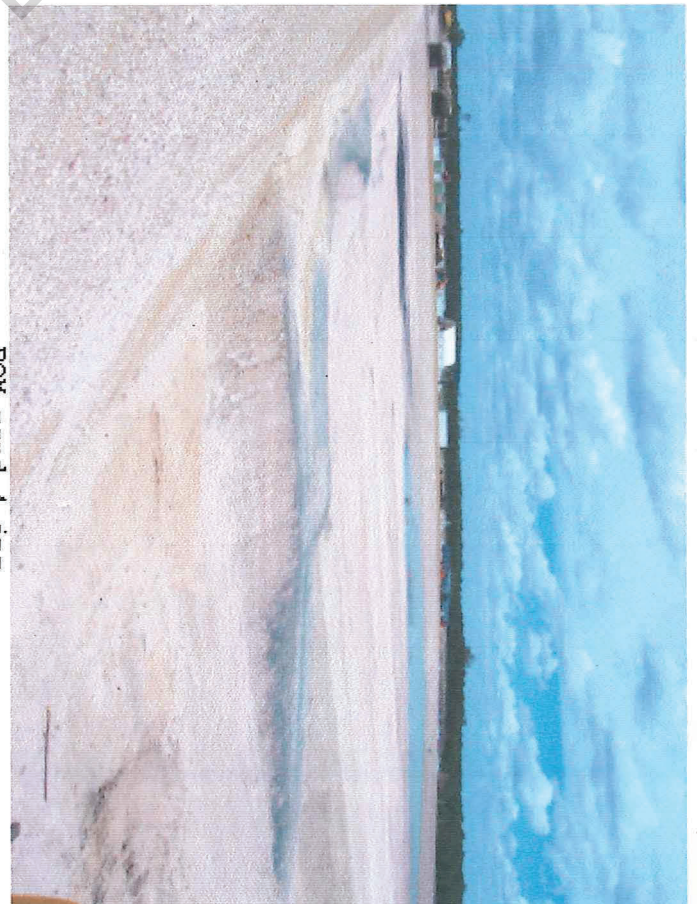
coal hopper and conveyor.jpg



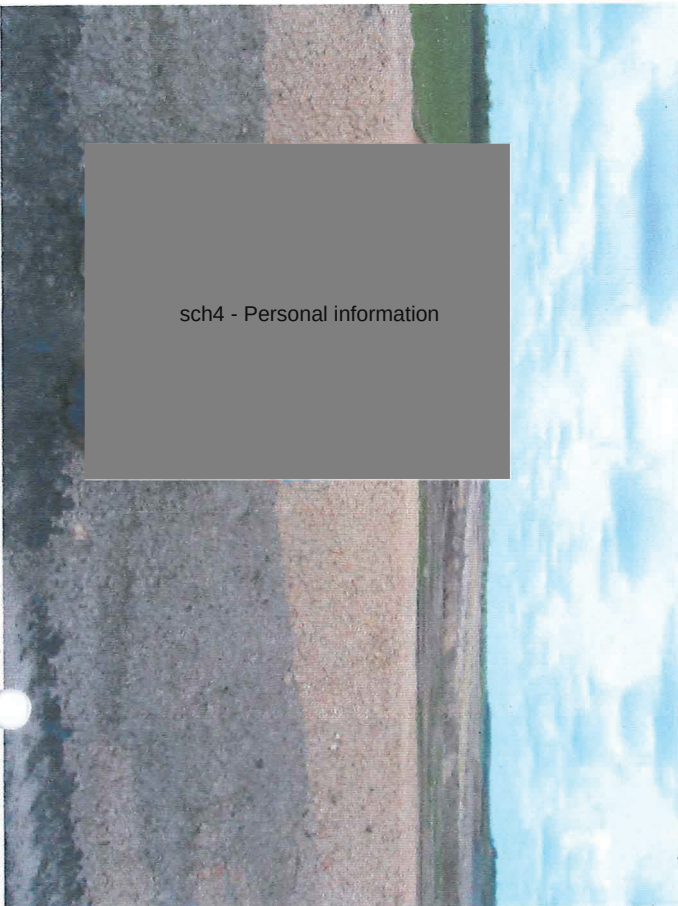
coal conveyor.jpg



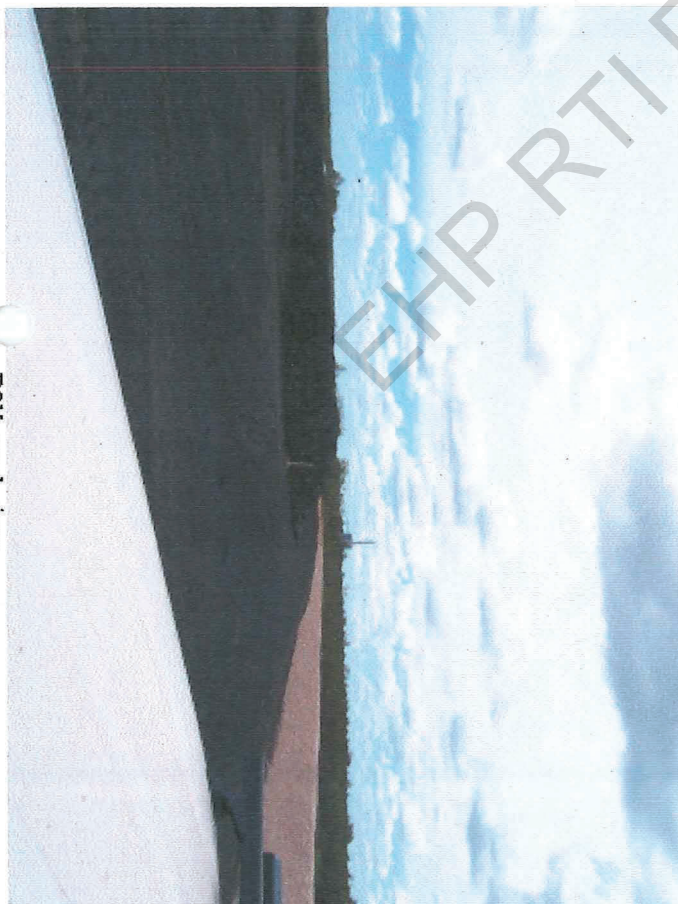
coal sperator in coal hopper.jpg



ROM pond 4.jpg



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ROM pad.jpg

proposed ash cell at mine.jpg



temporary workshop area 4.jpg



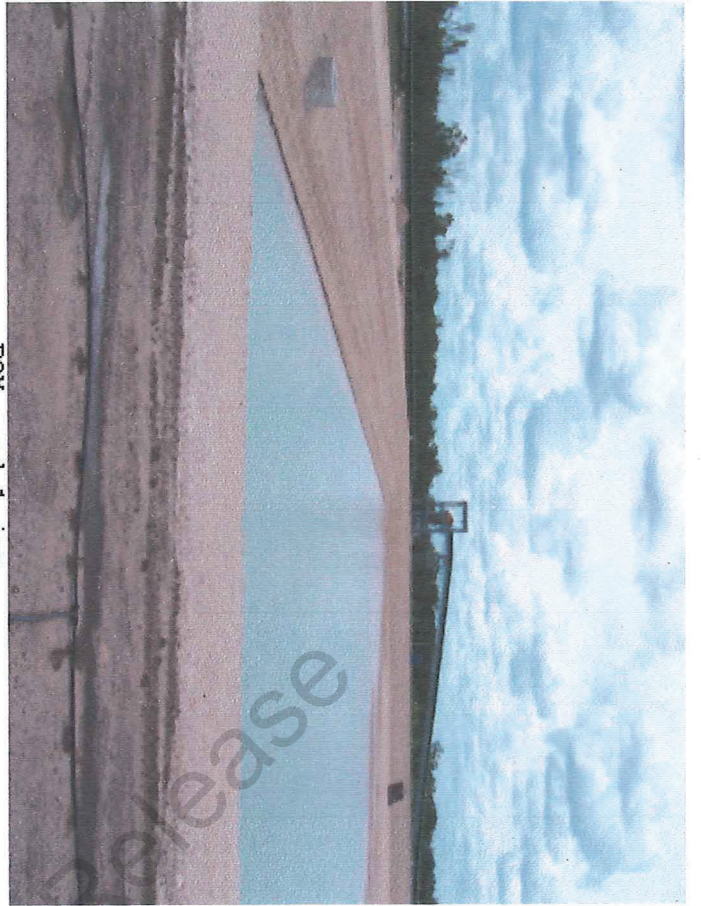
sewage treatment plant.jpg



effluent irrigation area.jpg



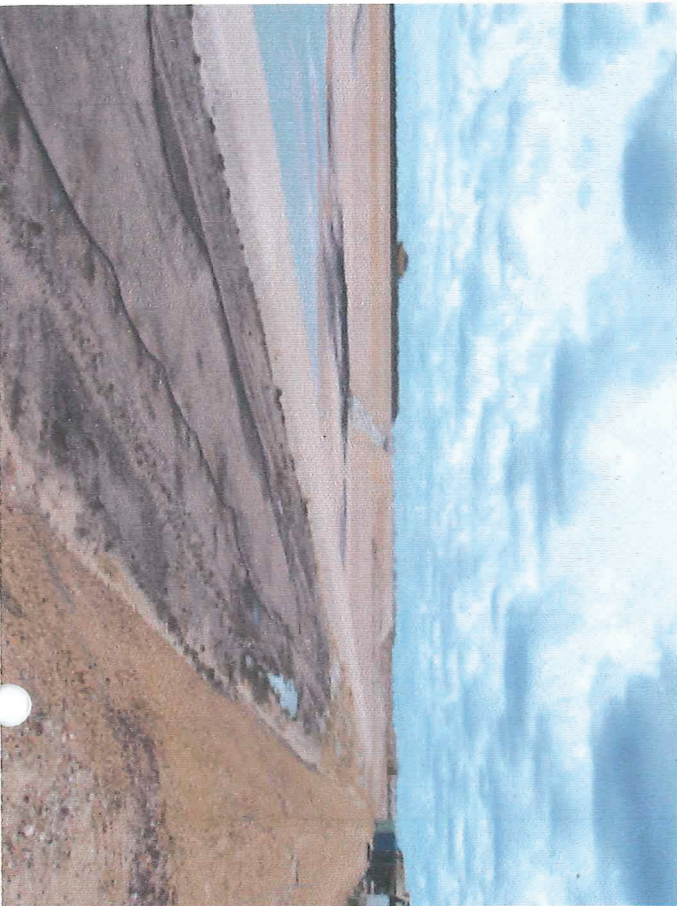
STP effluent irrigation sign.jpg



ROM pond 1.jpg



ROM pond 2.jpg



ROM pond 3.jpg



temporary workshop area 2.jpg

Amanda Cleary

From: David Wilde [David.Wilde@golding.com.au]
Sent: Thursday, 8 March 2007 12:57 PM
To: Amanda Cleary
Cc: TMORTIMER@csenergy.com.au; Andrew Zvirzginas; Stuart Schmidt
Subject: Kogan Creek Mine - EPA Visit Report

Attachments: EPA Report Reply 08Mar07.doc



EPA Report Reply
08Mar07.doc (...)

Hi Amanda,

I received a copy of your report from your recent visit to Kogan Creek Mine yesterday (07Mar).

Two extra self bundled pallets have been purchased and the drums are now stored on these pallets (the majority of the drums on the ground during your visit were empty and have now been disposed of).

A bund has been placed at the end of the treated water area to stop the water escaping this area. (note the water in the photo is from the 37mm of rain we had last week). We are in the process of ordering the grass seed for the levee bank and we will also seed the treated water area with this in the near future (80% Rhodes, 10% blue grass, 10% premier digitaria. The photo shows that there is grass starting to grow in this area naturally.

I am also assured that the WMP will be submitted on time.

If you have any further queries please give me a call

Regards

Dave Wilde
OHS&E Officer
Golding Contractors
Kogan Creek Mine
Phone: 07 4665 2177
Fax: 07 4665 2100
Mobile: [REDACTED] - Personal information

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Any views expressed in this message are those of the individual sender, except where the sender specifies and with authority, states them to be the views of Golding Contractors..





EHP RTI DL

Amanda Cleary

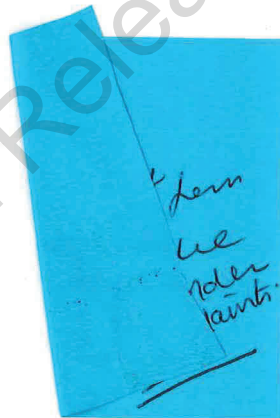
From: Amanda Cleary
Sent: Tuesday, 3 April 2007 11:17 AM
To: 'David Wilde'
Subject: RE: Noise Complaint - Kogan Creek Mine 28Mar07

Thank you David for letting me know. Can you please advise me of the monitoring results once they have been completed. Thank you

Regards,

Amanda Cleary
Senior Environmental Officer

Environmental Protection Agency
South West District Office
158 Hume Street.
TOOWOOMBA, QLD 4350
Ph: (07) 4699 4313
Fax: (07) 4699 4399



Amanda Cleary

From: King, Lawrence E8CB [Lawrence.King.ext@pg.siemens.com]
Sent: Thursday, 24 May 2007 12:36 PM
To: Amanda Cleary
Cc: Scherer, Thomas; Kraus, Reinhold EC
Subject: Ash Slurry Clean-up Progress Report

Attachments: DSC03900.JPG; DSC03899.JPG; DSC03902.JPG; DSC03903.JPG; DSC03908.JPG;
DSC03909.JPG; DSC03910.JPG; DSC03912.JPG; DSC03914.JPG



DSC03900.JPG
(528 KB)



DSC03899.JPG
(592 KB)



DSC03902.JPG
(579 KB)



DSC03903.JPG
(603 KB)



DSC03908.JPG
(606 KB)



DSC03909.JPG
(596 KB)



DSC03910.JPG
(324 KB)



DSC03912.JPG
(247 KB)



DSC03914.JPG
(390 KB)

Amanda,

As discussed this morning, we have good progress in cleaning up the Fly Ash Slurry spills. All the area north side of Smiths Rd is virtually completed, except for the final drain section to the Drains Reclaim Dam. Work has commenced on the South side of Smiths Rd today and will continue till completion, which is expected to be Sunday latest.

I will have calculation of the volumn of slurry discharged, this afternoon.
Best regards,

<<DSC03900.JPG>> <<DSC03899.JPG>> <<DSC03902.JPG>> <<DSC03903.JPG>> <<DSC03908.JPG>>
<<DSC03909.JPG>> <<DSC03910.JPG>> <<DSC03912.JPG>> <<DSC03914.JPG>>

Lawrence King
Siemens Ltd.
HS Mgr.
Kogan Creek Power Station

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Mob: +61 (0)7 46652942 - Personal information
Fax: +61 (0)7 46652200
PO Box 662 Chinchilla Qld 4413



DSC03909.JPG

24 5 2007



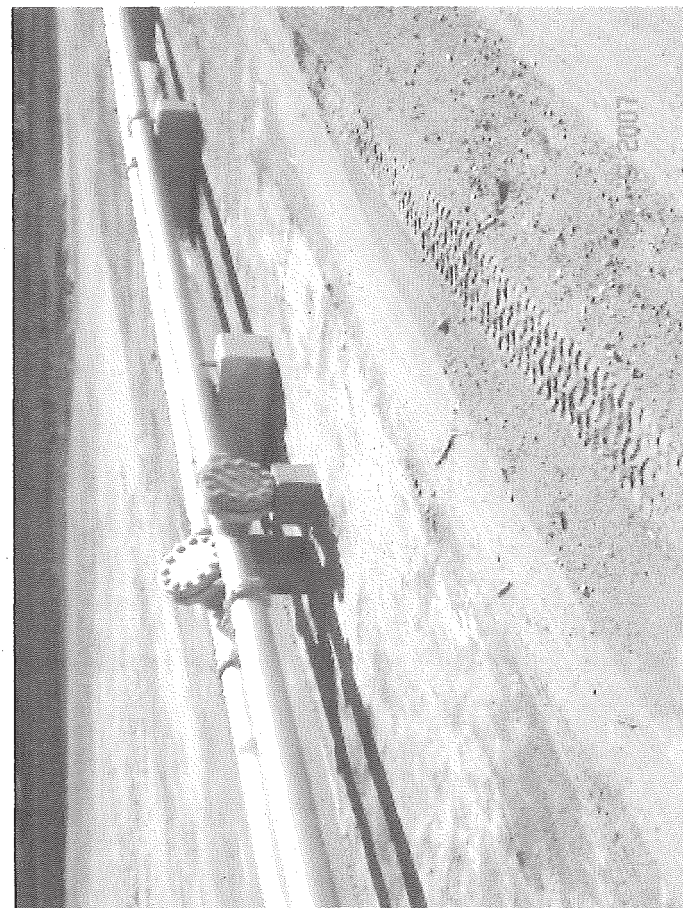
DSC03914.JPG

24 5 2007



DSC03908.JPG

24 5 2007



DSC03910.JPG

24 5 2007



DSC03900.JPG



DSC03903.JPG



DSC03899.JPG



DSC03902.JPG

Amanda Cleary

From: Amanda Cleary
Sent: Tuesday, 5 June 2007 4:10 PM
To: 'David Wilde'
Subject: RE: Noise Complaint - Kogan Creek Mine

Thanks David

If you could please let me know how the monitoring results go it would be appreciated.

Regards,

Amanda Cleary
Senior Environmental Officer

Environmental Protection Agency
South West District Office
158 Hume Street.
TOOWOOMBA. QLD 4350
Ph: (07) 4699 4313
Fax: (07) 4699 4399

