Section Five

Draft Statement of Commitments

This section has been prepared in accordance with the requirements of Part 3A of the Environmental Planning and Assessment Act 1979, and presents a compilation of the actions and initiatives the Somersby Fields Partnership commits to implement if the Somersby Fields Project is approved. These commitments are designed to effectively manage, mitigate, guide and monitor the project through its various phases.

The Environmental Assessment of the Somersby Fields Project has identified a range of environmental, social and management outcomes and measures, all required to avoid or reduce the environmental and social impacts of the project.

All parties involved in the design, establishment and operational phases of the project will be required to undertake their work in accordance with the commitments. ***Tables 5.1*** *to* ***5.3*** *present the draft commitments for:*

1. *Site Operations and Management;*
2. *Management of Environmental Issues; and*
3. *Community-related Issues and Consultation.*

*The management of environmental issues (****Table 5.2****) are prioritised in the order consistent with Section 4.*

For each draft commitment, the desired outcomes are provided together with the intended actions and timing for the implementation of the nominated actions.

Figure A *(on Page 5-19) provides the general site layout of the Somersby Fields Project Site and* ***Figure B*** *(on Page 5-21) records the locations of surrounding properties, residences and monitoring locations relevant to these commitments. These are intentionally fold-out plans to assist readers to cross-reference between the text and the figures when reviewing this section.*

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Table 5.1
Draft Statement of Commitments for Site Operations and Management

Desired Outcome	Action		Timing
1. Area of Activities			
All approved activities are undertaken in the area(s) nominated on the approved plans and figures.	1.1	The boundaries of the areas of sand removal will be surveyed and permanent markers placed at 50m intervals. Each marker will be numbered and its location recorded on the site layout plan.	Prior to any vegetation clearing within the sand removal areas.
	1.2	The locations of all security fencing and the far-western earth mound will be surveyed.	Prior to fence and earth mound construction.
	1.3	The centre line of the site access road will be surveyed and pegged.	Prior to construction of the site access road
	1.4	The boundary of the processing area will be surveyed and pegged at 50m intervals.	Prior to the clearing of the processing area.
2. Operating Hours – Site Establishment and Construction			
Construction activities managed in accordance with the approved operating hours.	2.1	Earthmoving Activities: 7:00am to 6:00pm Monday to Saturday.	Continuous
	2.2	Non-audible maintenance and equipment installation: 6:00am to 10:00pm Monday to Saturday.	Continuous
	2.3	Construct the far-western earth mound and acoustic barrier during non-school times only (see also Item 10.6).	Establishment of operations
3. Operating Hours – Operations			
Operating hours of work managed in accordance with the approved consent conditions.	3.1	Sand removal and processing: 7:00am to 6:00pm Monday to Saturday.	Continuous
	3.2	Product transportation: 5:00am to 10:00pm Monday to Friday; 5:00am to 4:00pm Saturday.	Continuous
	3.3	Non-audible maintenance: 5:00am to 10:00pm Monday to Saturday.	Continuous
4. Workforce Competencies and Training			
All employees and contractors are trained and assessed as competent to undertake those activities influencing the environment.	4.1	All employees and contractors will be required to demonstrate competency for any task undertaken on site.	Prior to commencement of activity.
	4.2	In the event that the required level of competency has not been achieved, training would be provided or sought.	Following an assessment of competency.

Table 5.1 (Cont'd)
Draft Statement of Commitments for Site Operations and Management

Desired Outcome	Action		Timing
5. Waste Management			
Manage fuel and oils on site to prevent leakage and soil contamination.	5.1	Install and maintain appropriately sized and designed bunds around all oil / fuel storages on site unless double-lined tanks are used.	During construction phase.
	5.2	Install concrete floors on all maintenance areas.	During construction phase.
	5.3	Collect all used oils in one location and employ a specialist collection / recycling contractor for such products.	Continuous.
Minimise general waste and recycle wherever possible.	5.4	Install separate containers for the collection of recyclable items and employ a recognised licenced recycling contractor for collection.	Continuous.
	5.5	Employ a licensed waste collection contractor for all general waste / garbage at least on a weekly basis.	Continuous.
6. Bushfire Management			
Manage the Project Site in a manner that minimises the risk of creating a bushfire or allowing a bushfire to travel through the site.	6.1	Install on site pumping facilities and appropriate hoses from Dam A for use in bushfire fighting.	During construction phase.
	6.2	Ensure that the Somersby Bushfire Brigade visits the site each year to be fully aware of water storage on site and access, if required for fire-fighting purposes.	Annually.
	6.3	Ensure there is a permanent cleared zone around the processing plant and that all on-site mobile plant are maintained to the manufacturer's specifications.	During construction phase and ongoing.
	6.4	Ensure the entire site is a "No Smoking" area.	Continuous.
	6.5	Require, as a condition of employment, that there be "No Smoking" by employees, during employment hours and while on or in Company property.	As each person is employed.
Fulfil obligations re: flora and fauna management without increasing the risk of bushfires.	6.6	Construct and maintain a service vehicle accessway generally around the perimeter of the site.	As required.
	6.7	All fallen and lopped native trees will be left on the ground within the fauna and flora conservation areas.	As required.

Table 5.1 (Cont'd)
Draft Statement of Commitments for Site Operations and Management

Desired Outcome	Action		Timing
7. Documentation			
All operational procedures are documented to ensure consistency in implementation throughout the project life.	7.1	Operational procedures will be prepared for each site activity which could potentially impact upon the local environment.	All procedures would be compiled prior to the commencement of the nominated activity.
A systematic set of documents are in place to guide the planning and implementation of all necessary environmental strategies.	7.2	An environmental management strategy will be prepared to record the set of documents required throughout the life of the project and the trigger points for their preparation.	Prior to the commencement of site activities.
All operational procedures relevant to site establishment and construction activities are prepared.	7.3	Procedures manuals will be prepared relating to: – Protection of Threatened Species; – Vegetation Clearing; – Soil Stripping and Stockpiling; – Operation of Earthmoving Equipment; – Installation of Sediment Controls; – Revegetation Activities; – Hydrocarbon Management; and – Environmental Monitoring.	Prior to commencement of nominated activity.
All operational procedures relevant to site operations and product transportation are in place.	7.4	Procedures manuals will be prepared relating to: – Operation of the Wash Plant; – Operation of the Mortar Sand Plant; – Operation of the Filter Press; – Placement of dewatered clay fines; – Rehabilitation; – Operation and Maintenance of the Wheel Wash Facility; – Environmental Monitoring; and – Driver's Code of Conduct.	Prior to commencement of activity. Each manual would be reviewed and updated biennially.
An annual report is prepared for government agencies and the community.	7.5	The annual environmental management report will report on the activities and environmental monitoring conducted during the reporting period and the planned activities and environmental monitoring for the ensuing 12 months.	Submitted within 2 months of the completion of the reporting period.
Annual production data is provided to the Mineral Resources Division of the Department of Primary Industries.	7.6	Data recording the quantity and value of construction materials produced on site will be compiled on the form supplied.	Annually

Table 5.1 (Cont'd)
Draft Statement of Commitments for Site Operations and Management

Desired Outcome	Action		Timing
7. Documentation (Cont'd)			
A biannual newsletter regarding the project's progress and performance.	7.7	Compile a summary of each annual environmental management report for circulation as a newsletter to the local community.	Prepare and circulate at the time when the annual report is prepared and 6 months thereafter.
	7.8	A similar summary document will be prepared for the intermediate 6 month period.	
	7.9	Each newsletter will be circulated to interested surrounding residents and posted on the Proponent's web site.	
All insurance aspects	7.10	Ensure all necessary insurance cover is in place.	Commencement and continuous

Table 5.2
Draft Statement of Commitments for Management of Environmental Issues

Desired Outcome	Action		Timing
8. Groundwater			
Continuous monitoring of groundwater throughout the life of the project and effective communication of results to land owners within 1km of the Project Site.	8.1	Install, maintain and monitor four permanent groundwater monitoring wells generally within the location shown on **Figure B**.	As part of the construction phase.
	8.2	Provide results to interested land owners within 1km of the Project Site together with a comparison of groundwater levels and those predicted on the groundwater computer model developed by RCA Australia.	Annually
	8.3	Communicate with any land owner who could be affected by the monitored groundwater table if it is more than 10% below the level forecast in the groundwater computer model.	As required.
All owners of registered bores likely to experience a reduction in water flow greater than normal seasonal fluctuations and as a result of the project are provided with written undertakings by the Proponent.	8.4	Provide improved / deeper bores for the Department of Education and Training and Daniels (or other agreed arrangements) to address the reduction of the saturated groundwater thickness at the respective bores on their properties.	Before construction phase commences.
	8.5	Provide written undertakings to all land owners whose registered bores are predicted to experience a reduction in saturated thickness of between 5% and 10% by the groundwater computer model.	Before construction phase commences. Written undertakings have already been provided to six land owners.
All land owners with spring water flows where those springs will be adversely affected by the project as forecast in the groundwater computer model.	8.6	Provide an alternative satisfactory water supply arrangements with all such land owners or other agreed offsets / compensation.	Before construction phase commences. Written undertakings have already been provided to six land owners.
Manage the impact of the project on groundwater and in a manner which minimises the effect on other land owners.	8.7	Participate actively in the Somersby Plateau Cumulative Impacts Consultative Committee.	Continuous
	8.8	Ensure final landform and revegetation is planned so that the predicted groundwater levels are achieved as soon as possible.	Continuous

Table 5.2 (Cont'd)
Draft Statement of Commitments for Management of Environmental Issues

Desired Outcome	Action		Timing
9. Surface Water			
Maintain low flows beyond Dam A into the DPI Dam.	9.1	Construct a weir and install an overflow pipe to direct small surface flows around Dam A.	During the site establishment period.
Record baseline water quality.	9.2	Monitoring will include: Measurement of pH, EC, TSS, major cations/anions at representative surface water occurrences.	Prior to commencement of site establishment and construction.
Record water quality during site establishment and construction.	9.3	Monitoring will include: Measurement of pH, EC, TSS, Oil and Grease at overflow from Dam A.	Monthly / events.
Record water quality during life of operations.	9.4	Monitoring will include: Surface Water Quality: Measure pH, EC, TSS, Oil and Grease from overflow from Dam A.	Quarterly / events.
10. Noise			
Project is designed to minimise noise impact on all adjoining land owners.	10.1	On-site acoustic barriers and earth mounds will be constructed as per Appendix E of Part 7 of the *Specialist Consultant Studies Compendium*.	Far-western and Northeastern barriers - during the early stages of the construction phase. Mid-western barrier – prior to Stage 1/7.
	10.2	Enclose and operate the wash plant within a building.	In the early stages of construction phase.
	10.3	Use alternative warning systems to horn signals on all on-site mobile plant.	Continuous
	10.4	Ensure that the best available technology and best management practices are used to minimise adverse acoustical impacts.	Continuous
Construction phase will be planned and timed to minimise noise impacts on neighbours.	10.5	Acoustic barriers and earth mounds will be among the first items to be constructed.	During construction phase.
	10.6	The construction work of the far-western earth mound nearest to Somersby Public School will be conducted out of school hours.	During construction phase.
Noise monitoring will be undertaken and the results reported to neighbours.	10.7	Noise monitoring will be undertaken at those locations recommended in Part 7 of the *Specialist Consultant* Studies *Compendium*.	At intervals agreed with DEC.

Table 5.2 (Cont'd)
Draft Statement of Commitments for Management of Environmental Issues

Desired Outcome	Action		Timing
10. Noise (Cont'd)			
Noise monitoring will be undertaken and the results reported to neighbours (Cont'd).	10.8	Provide results of noise monitoring to neighbours if they are at or below those forecast in Part 7 of the *Specialist Consultant Studies Compendium* or if they indicate an exceedance.	Quarterly (if no exceedance) Within 1 week (if exceedance)
	10.9	Noise will be included in the reports to the School Principal and the Parents and Citizens Association as per 10.7.	Monthly.
A 24 hour telephone number will be available to receive any noise complaints. These complaints will be answered quickly with the results of relevant noise monitoring made available to the complainant.	10.10	Complaints on noise will be logged and managed in the manner recommended in Sections 8.5.2 and 8.5.3 of Part 7 of the *Specialist Consultant* Studies *Compendium*.	Continuous
Negotiated agreements will be in place with the neighbours who are likely to be impacted by noise in excess of the noise criteria assessment levels.	10.11	Seek to finalise undertakings with B&L Daniel (Location N)	Before the commencement of Stage 2.
Record parameters of the local environment being affected during site establishment and construction.	10.12	Monitoring will include: Record $L_{Aeq\ (15\ minute)}$ noise levels from operations at Sites SN-1 to SN-4.	Related to activity.
Employees and contractors will be sensitive to the noise impacts on neighbours.	10.13	All hours of work will be strictly within approved limits (ie. mobile plant / truck engines will not be started before these nominated hours).	Continuous
	10.14	Horn signals will not be used by loaders and trucks on site.	Continuous
	10.15	Induction of staff will highlight noise management responsibilities of every employee / contractor.	As required.
Record parameters of the local environment being affected by the operation.	10.16	Monitoring will include: Record $L_{Aeq\ (15\ minute)}$ noise levels from operations and $L_{Aeq\ (1\ hour)}$ from transport operations.	Quarterly for first 2 years (subject to review after 2 years) / related to activity.
11. Air Quality			
Operate in a manner which ensures all air quality standards in the Environment Protection Licence are fully met.	11.1	Seal those roads on site which are to be used by delivery trucks and light vehicles (see **Figure A**).	During the construction phase.

Table 5.2 (Cont'd)
Draft Statement of Commitments for Management of Environmental Issues

Desired Outcome	Action		Timing
11. Air Quality (Cont'd)			
Operate in a manner which ensures all air quality standards in the Environment Protection Licence are fully met (Cont'd).	11.2	Seal those roads on site which are to be used by delivery trucks and light vehicles (see **Figure A**).	During the construction phase.
	11.3	Keep sealed roads clean and water all other on-site access ways up to six times per day when required.	Operational Days (subject to weather).
	11.4	Water stockpiles and exposed sandy areas to minimise dust.	As required.
	11.5	Minimise area of exposed ground.	Continuous.
	11.6	Progressively rehabilitate / stabilise available areas of disturbance.	Continuous
	11.7	Enclose processing plant for washing and screening within a building.	During construction phase.
Ensure the impact on air quality at the Somersby Public School is minimised and remains better than any threshold level established by DEC.	11.8	Report the results of the monitoring to the School Principal and the Parents and Citizens Association monthly.	Monthly.
	11.9	Provide access for the School Principal and the Parents and Citizens Association to the air quality consultants.	6 monthly (if requested).
	11.10	Develop an early warning alert reporting system with the School Principal and the Parents and Citizens Association of the air quality monitored at the School shows results which are worse than in the model in Part 3 of the Specialist Consultant Studies Compendium.	As needed.
	11.11	Based on the most up-to-date experience and reported scientific results, re-run the air quality model (adjusted if necessary) reporting the results to the School Principal and the Parents and Citizens Association as shown.	Once during construction phase. Annually in Stage 1. Every 6 months in Stage 2.
	11.12	Report the re-runs of the model to the NSW Department of Planning.	As above.
Record parameters of the local environment being affected by the operation.	11.13	Monitoring will include: – Maintaining existing deposited dust gauges at Sites SD-1 to SD-5 (see **Figure B**) or other approved locations and PM_{10} monitor at SD-1 (subject to periodic review for relevance). – On-site continuous meteorological monitoring will be undertaken to record relevant parameters.	Monthly – deposited dust. Every 6 days – PM_{10}.
	11.14	Maintain a register of air quality concerns and record action taken	As required

Table 5.2 (Cont'd)
Draft Statement of Commitments for Management of Environmental Issues

Desired Outcome	Action		Timing
11. Air Quality (Cont'd)			
Ensure immediate land owners are aware of results of dust monitors informing them of model predictions arising from re-runs.	11.15	Provide the results of dust and meteorological monitoring to the owners of properties where dust monitors are installed (shown on **Figure B**).	Quarterly.
12. Health Issues			
Ensure the pupils and staff at Somersby Public School experience only negligible changes in silica exposure which remains at least 10% below any DEC prescribed threshold level.	12.1	Monitor dust (PM_{10}) and if 24 hour average PM_{10} concentration attributable to the operation exceeds the threshold level for two consecutive sampling events, monitor respirable crystalline silica at the Somersby Public School.	PM_{10} – continuously adopting DEC 6 day cycle. Silica – within one week of trigger PM_{10} result.
	12.2	If the threshold level of crystalline silica as measured at the Somersby Public School exceeds the DEC threshold level, work at the site is to cease and not resume until approved to do so by the Director-General.	As required.
	12.3	Provide silicosis and health impact report each year to the School Principal and the Parents and Citizens Association.	Annually.
Ensure immediate land owners are aware of the results of PM_{10} monitoring and their health impact are equally well managed.	12.4	Undertake an annual review of 24 hour average PM_{10} levels and deposited dust levels at SD-1 and relate to deposited dust levels at other sites.	Annually.
Ensure all site employees and contractors are fully protected against the risk of respirable silica.	12.5	Monitor occupational respirable silica regularly on site with the frequency to be determined by the results obtained and discussions with WorkCover.	Continuous
	12.6	If the results exceed the NOHSC standard of 0.1mg/m^3 TWA, immediately cease operations until the exposure can be managed and reduced via isolation of the employee from the source, engineering controls, administrative controls and personal protective equipment or a combination of all of these actions.	As required.
13. Traffic and Transport			
Somersby Public School staff and pupils are not affected by traffic from the project and in a way which endangers their safety.	13.1	Require all trucks without exception to travel to and from the site entrance to the F3 directly on Peats Ridge Road.	From start of construction and throughout the entire project.
	13.2	Require all truck drivers to sign contracts that they will be dismissed if they break any road rule while driving on Peats Ridge Road or any Somersby local road – particularly in the event they disobey Action 13.1.	On engagement of each driver.

Table 5.2 (Cont'd)
Draft Statement of Commitments for Management of Environmental Issues

Desired Outcome	Action		Timing
13. Traffic and Transport (Cont'd)			
Trucks enter and exit site (on Peats Ridge Road) without incidents and have the minimum effect on traffic flow.	13.3	Construct the site entrance intersection in Peats Ridge Road as per Figure 12 in report (Cardno (NSW) Pty Ltd – Part 8 of the Specialist Consultant Studies Compendium).	At the start of the construction phase.
	13.4	Instruct drivers on need to enter Peats Ridge Road traffic flow safely when a gap in traffic exists.	On engagement of each driver.
Truck noise is measured and does not breach noise consent standard. (See also Actions 10.13 to 10.15).	13.5	Ensure all drivers are aware of all relevant approval conditions for the project and enforce those conditions.	On engagement of each driver.
	13.6	Provide a 24 hour telephone number for complaints re: trucks and truck noise.	Continuous.
	13.7	Require drivers to avoid the use of compression braking on Peats Ridge Road.	Continuous.
	13.8	Limit truck movements during early morning and late evenings to maximum levels specified in Section 2.7.4 of the *Environmental Assessment*.	Continuous.
	13.9	Establish a register to record complaints and note remedial action taken.	Continuous.
Environmental impact of trucks is minimal and does not breach approval standards.	13.10	Ensure wheel wash is always clean, effective and used by all trucks.	Continuous.
	13.11	Ensure trucks are well maintained to minimise exhaust emissions.	Continuous.
Best practice traffic and transport management is used both on-site and off-site.	13.12	Implement all recommendations by Traffic Specialist Consultant (Cardno (NSW) Pty Ltd) on Tables 14 and 15 of their report (Part 8 of the Specialist Consultant Studies Compendium).	Continuous.
14. Flora Management			
The Proponents will ensure that their operations are carried out in a manner which provides the best safeguards for flora.	14.1	Only disturb/clear vegetation in the area of sand removal for the next 12 months.	Each clearing campaign.
	14.2	Transfer topsoil, wherever possible, directly onto final rehabilitation areas in order to maximise seed stock retention.	Soil removal campaigns.
	14.3	Collect seeds from felled vegetation for future revegetation programs.	Each clearing program (subject to appropriate season).
	14.4	Undertake a program of weed control.	Continuous
	14.5	Remove all pine trees and exotic grasses on the Project Site and progressively replace with mixed Eucalypt woodland species.	During Stages 1 and 2.

Table 5.2 (Cont'd)
Draft Statement of Commitments for Management of Environmental Issues

Desired Outcome	Action		Timing
14. Flora Management (Cont'd)			
Long term retention and protection for the majority of the population of *Prostanthera junonis* on the Project Site.	14.6	Finalise and establish a Voluntary Conservation Area along the Peats Ridge Road reserve as shown in **Figure A**.	At the start of construction period.
	14.7	Translocate as many as possible of the *Prostanthera junonis* plants from the sand removal area to the Voluntary Conservation Area or eastern and western fauna / flora corridors.	As clearing extends into area of isolated *Prostanthera junonis.*
	14.8	Support appropriate monitoring research projects consistent with the Recovery Plan for *Prostanthera junonis.*	Continuous
	14.9	Improve the habitat on site by removing pine trees, exotic grasses and weeds from the buffer areas surrounding the area of sand removal.	During Stage 1 and Stage 2.
Long term retention and protection of Black Eyed Susan *(Tetratheca glandulosa)* on the Project Site	14.10	Extend the Voluntary Conservation Area to cover the area in which the Black Eyed Susan are located.	At the start of the construction phase.
Long term retention and protection of valuable native trees and bushland along the eastern boundary of the Project Site.	14.11	Provide buffer zone of 30m wide along the eastern boundary of the Project Site (see **Figure A**). This buffer zone coincides with the area with some archaeological sensitivities.	At the start of the construction phase.
	14.12	Inform all contractors and employees about the various buffer zones and that they are not to be entered except for specific operational purposes.	Continuous
Long term protection of areas of enhanced native vegetation and native revegetation.	14.13	Place a Section 88B covenant over the areas nominated on **Figure 2.16**.	At the completion of all rehabilitation activities.
15. Fauna Management			
Promote biodiversity on the site and remove introduced species which are inappropriate.	15.1	Retain and augment the buffer strip between the Project Site and Peats Ridge Road.	Continuous
	15.2	Retain the natural habitat on the eastern boundary of the Project Site.	Continuous
	15.3	Preserve the main area of *Prostanthera junonis* via a Voluntary Conservation Agreement.	Continuous
	15.4	Rehabilitate the site sensitively.	Progressively throughout project life

Table 5.2 (Cont'd)
Draft Statement of Commitments for Management of Environmental Issues

Desired Outcome	Action		Timing
15. Fauna Management (Cont'd)			
Promote biodiversity on the site and remove introduced species which are inappropriate (Cont'd).	15.5	Minimise all sediment to the headwaters of four creeks on the site.	Continuous
	15.6	Remove the exotic pines beyond the sand removal area in the southwestern corner of the Project Site.	Progressively throughout Project Life.
Retain the natural habitat on the eastern side of the Project Site.	15.7	Protect and enhance existing vegetation to create the eastern fauna / flora corridor.	Progressive / continuous.
	15.8	Exclude employees and contractors from entering this area except for specific operational purposes.	Continuous
	15.9	Retain all native trees and the diverse fauna in the area east of Dam A.	Continuous
Retain remnant vegetation on the western side of the Project Site and replace exotic vegetation with native vegetation.	15.10	Progressively remove all Radiata Pine and weeds from western side of Project Site to create the western fauna corridor.	Progressive / continuous.
	15.11	Transfer biomass and topsoil from sand removal areas to corridor.	Progressive / continuous.
Protection of habitat for native animals is well managed.	15.12	Ensure honey bee hives are prohibited and removed from the site.	Continuous
	15.13	Avoid using *Gambusia holbrooki* in all dams / water storage for the control of mosquito breeding.	Continuous
Protection of habitat for native animals is well managed.	15.14	Wherever possible, leave felled and fallen native timbers on the ground as logs and ground cover habitats and refuges for native fauna.	Continuous
	15.15	Only remove vegetation in the areas of sand removal / operations / stockpiling / transport and do so in a timely manner to expose the least possible area at any point of time.	Continuous
Site is rehabilitated in a manner consistent with the habitat protection for native animals	15.16	Rehabilitate the site on a progressive basis throughout the life of the project.	Continuous
	15.17	Use seed stock from local trees which are consistent with the composition of the original local vegetation community in site rehabilitation.	Continuous
16. Visual			
It is impossible for people to see sand removal / processing activities from the west (Somersby Public School); north (Peats Ridge Road) or east (Somersby Field Station).	16.1	Maintain the buffer zone on all these boundaries.	Continuous
	16.2	Design the entrance road with a curve so it is not possible to see the operation from the site entrance.	During construction phase.
	16.3	Work with Gosford City Council on the road reserve of Peats Ridge Road to maintain its health and density.	Continuous.

Table 5.2 (Cont'd)
Draft Statement of Commitments for Management of Environmental Issues

Desired Outcome	Action		Timing
16. Visual (Cont'd)			
Apart from the exposure caused by the airstrip, maintain an adequate buffer zone to the south to prevent visual sighting of the operations.	16.4	Maintain the buffer zones as required on this boundary.	Continuous.
	16.5	Replant promptly the area of pine trees near Wisemans Ferry Road on this boundary when they are removed, for replanting with natives.	As required.
17. Soils and Land Capability			
Soil material on site is used effectively in rehabilitation.	17.1	Strip areas required in the manner recommended in Part 11 of the Specialist Consultant Studies Compendium and store / re-use soils as per this report.	Continuous.
18. Environmental Monitoring			
Record parameters of the local environment being during site establishment and construction.	18.1	Monitoring will include:	
		• Surface Water Quality:- Measure pH, EC, TSS, Oil and Grease at overflow from Dam A.	Prior to activity / monthly / events.
		• Noise: Record $L_{Aeq\ (15\ minute)}$ from operations at Sites SN-1 to SN-4.	Related to activity.
		• Air Quality:- Maintain existing deposited dust gauges at Sites SD-1 to SD-5 (see **Figure B**).	Monthly – deposited dust. Every 6 days – PM_{10}.
Record parameters of the local environment being affected during operations.	18.2	Monitoring will include:	
		• Surface Water Quality: Measure pH, EC, TSS, Oil and Grease from overflow from Dam A.	Quarterly / events.
		• Water Storage Volumes	Monthly.
		• Groundwater Levels	Automatic Water Level Recorder on four site piezometers. Quarterly in bores on adjoining properties.
		• Noise: Record $L_{Aeq\ (15\ minute)}$ from operations and $L_{Aeq\ (1\ hour)}$ from transport operations.	Quarterly for first 2 years (subject to review after 2 years) / related to activity.
		• Air Quality: Maintain existing deposited dust gauges at Sites SD-1 to SD-5 (see **Figure B**).	Monthly - deposited dust. Every 6 days – PM_{10}.

Table 5.2 (Cont'd)
Draft Statement of Commitments for Management of Environmental Issues

Desired Outcome	Action	Timing
18. Environmental Monitoring (Cont'd)		
Demonstrate dust and noise levels can satisfy DEC criteria during Stage 1 – at a comparable distance to that between Stage 2 and Somersby Public School.	18.3 Establish dust and noise monitoring approximately 200m from Stage 1 operations.	Following the date of commencement of operations – at the completion of site establishment.

Table 5.3
Draft Statement of Commitments for Community-Related Issues and Consultation

Desired Outcome	Action		Timing
19. Indigenous Heritage			
Effective protection provided for archaeologically sensitive areas.	19.1	Provide buffer zone 30m wide along the eastern boundary of the Project Site (to be incorporated in the Voluntary Conservation Area).	At start of construction period.
Employees who are sensitive to and respectful of possible Aboriginal heritage on the site.	19.2	Inform all contractors and employees of the 30m buffer zone.	From the start of their employment.
	19.3	Inform all contractors and employees of their responsibility under the *National Parks and Wildlife Act 1974* if any bone, stone artefacts etc. are found.	From the start of their employment.
Pupils at Somersby Public School better understand local Aboriginal heritage.	19.4	Offer Somersby Public School the opportunity for pupils, under appropriate guidance, to visit the site and learn of Aboriginal heritage of Somersby areas.	From the 2nd year of operations.
20. Somersby Community Relationships			
Local Somersby community has confidence Somersby Fields is meeting the required environmental standards.	20.1	Establish a Community Consultative Committee (CCC).	Prior to construction commencing.
	20.2	Report to the CCC and in the community newspaper on environmental results.	Quarterly.
	20.3	Provide the CCC with access to specialist consultants to build credibility about the monitoring program.	Every 6 months (if requested).
To be a good contributory member of the local Somersby community.	20.4	Undertake annually a community and a school survey and report findings to the CCC and in the community newspaper.	Annually.
	20.5	Develop and publicise a Community plan and update it annually.	Prior to construction commencing and then annually.
	20.6	Provide easy access for residents to query / complain / respond on any aspect of the project.	Prior to construction commencing.
	20.7	Support local community events.	As appropriate.
	20.8	Commit that the site's end use will not be for hard rock quarrying or as a waste facility.	As part of approval process.

Table 5.3 (Cont'd)
Draft Statement of Commitments for Community-Related Issues and Consultation

Desired Outcome	Action		Timing
20. Somersby Community Relationships (Cont'd)			
Support educational program at Somersby Public School and elsewhere.	20.9	Offer access for pupils to Voluntary Conservation Area as well as to other areas of educational interest re: geology, water chemistry etc.	As appropriate.
	20.10	Work with TAFE and other training organisations to encourage local take up of employment and support local employees to green light trade skills.	As appropriate.
Develop ways of operating which best meet the requests of the Somersby community.	20.11	Use the CCC Forum to develop ways to improve relationship with Somersby community.	Quarterly.
	20.12	Work with Gosford City Council's Cumulative Impact Consultative Committee for extractive industries on the Somersby Plateau.	As per committee meeting schedule.

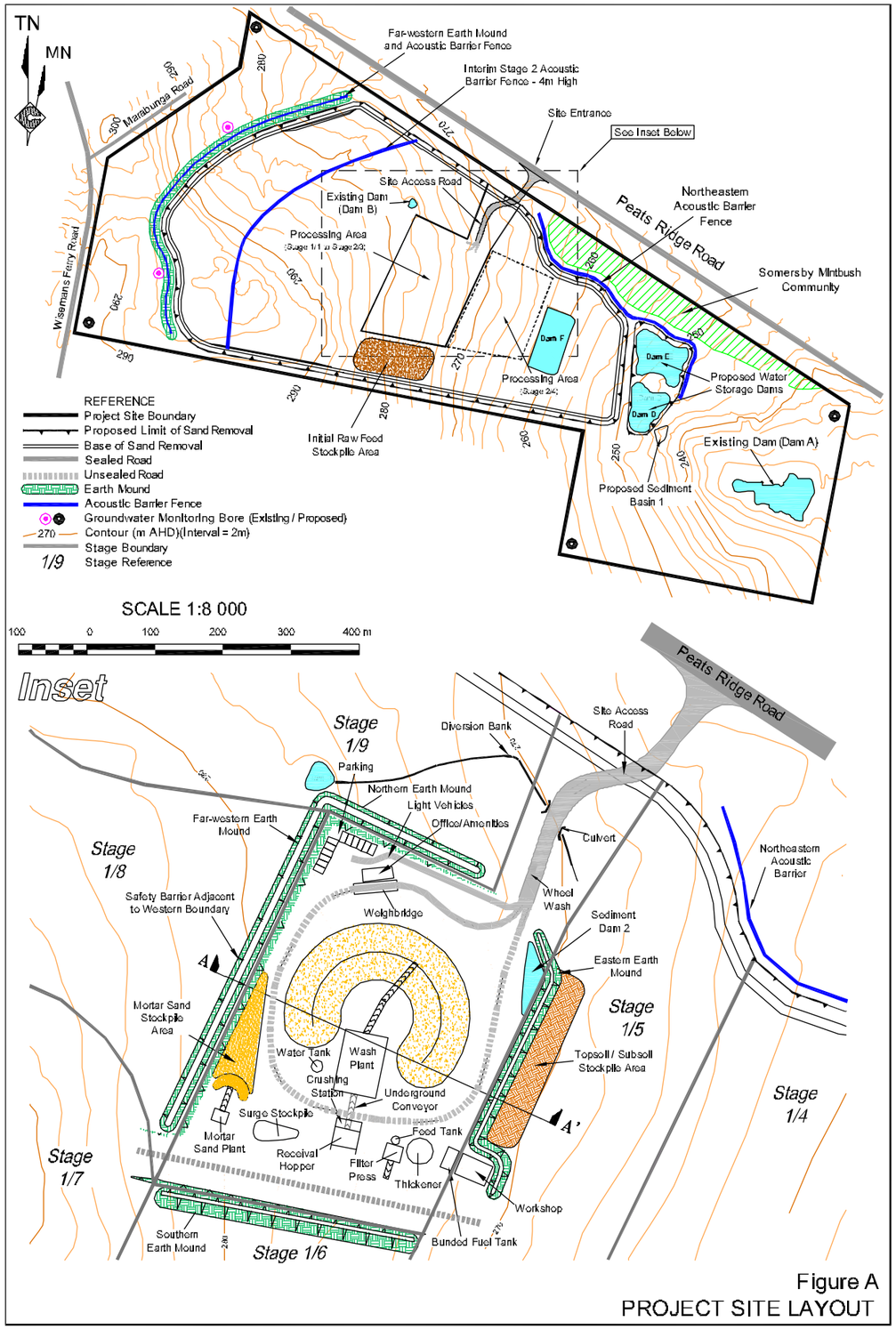
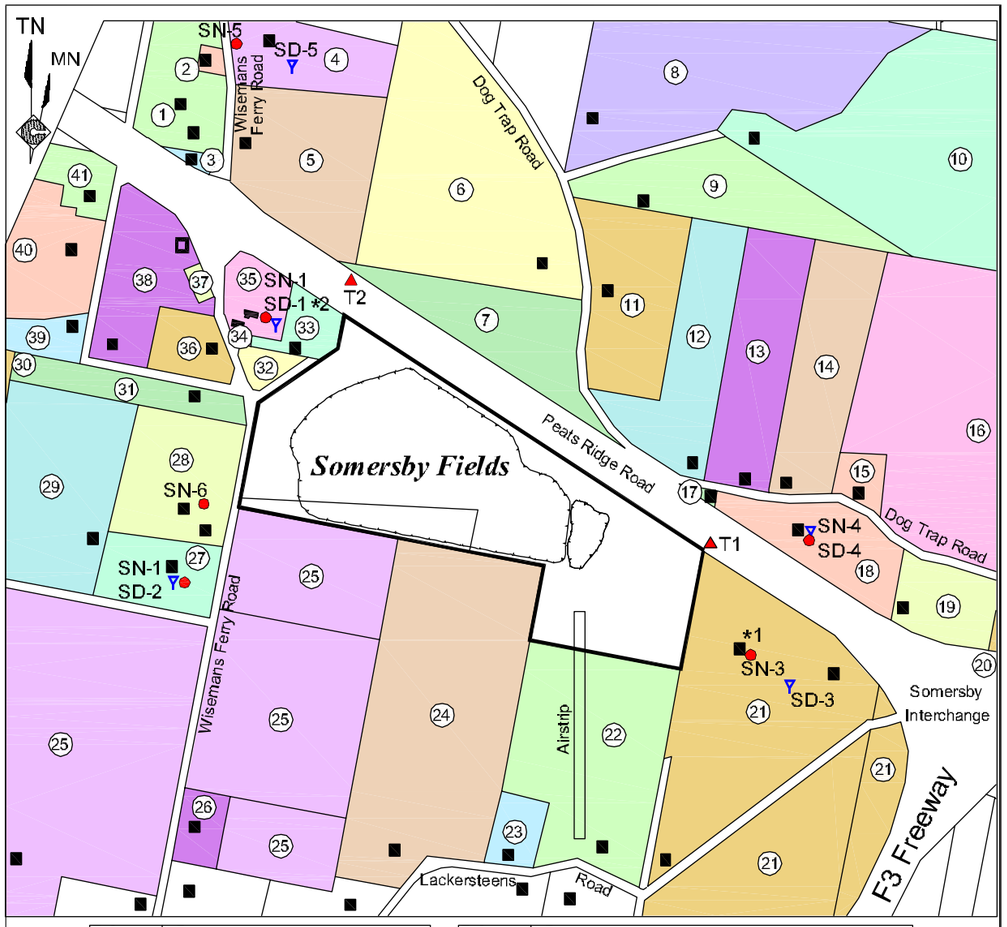


Figure A
PROJECT SITE LAYOUT



Reference	Owner
1	P. & R. Tate
2	J. & J. O'Toole
3	P. & S. Moore
4	Coachwood Nurseries Pty Ltd
5	G. & P. Radford
6	G. & H. Rose
7	M. & N. Ozbaglar
8	J. & C. McLuckie
9	G. & T. Morris
10	E. & G. Ireland
11	R. Fischer
12	F. & V. Knutson
13	P. & S. Martin
14	S. Bromfield
15	E. Grant, S. & P. Drew
16	A. Smith & P. McLoughlin
17	L. & N. Douglass
18	C. & R. Sultana
19	T. & V. Lamb
20	C. & P. Gilbert
21	Minister of Agriculture & Rural Affairs

Reference	Owner
22	A. Gregory
23	I. Scott
24	D. Ross
25	Wytown Pty Limited
26	B. & J. Thompson
27	R. & S. Weller
28	R. Thompson, B. Thompson & S. Jarvis
29	G. Williams, T. & C. Underwood, G. & H. Taylor
30	A. & A. Korogiannis
31	K. & L. Hawker & J. Woods
32	Minister for Lands
33	B. & L. Daniel
34	H. Chivers, A. Hoipo, E. Goldswain, M. Hunter & D. Studds
35	Minister for Education
36	S. & M. Cahill
37	N. Stapleton
38	W. & I. Raddatz
39	D. & B. Lyon
40	B. & S. Arms
41	C. & M. Smith

REFERENCE

Project Site Boundary
Residence
Commercial
SD-3 Deposited Dust Guage
SN-3 Noise Monitoring Site
T1 Traffic Noise Monitoring Site
Cadastral Boundary

*1 Note: Location of Planned Residence
*2 Note: A High Volume Air Sampler is also located within the grounds of Somersby Public School

SCALE 1:15 000

250 0 250 500 750 m

Figure B
SURROUNDING PROPERTIES, RESIDENCES AND MONITORING LOCATIONS