

Gunnedah Basin – Cultural Heritage Assessment

Request Details

Asset Type:	Well, Tank Farm, Road and Waterline
Asset Name:	Glasserton – Georges Island
Description of activity, including location and machinery involved:	<p>Dozer, excavator and grader to construct leases for Glasserton 2, 3 4, water storage facility and to upgrade and re-align existing access tracks.</p> <p>Dozer, excavator and grader to prepare shallow aquifer monitoring bore area within Glasserton 3 lease area.</p> <p>A short buried water line will connect the Glasserton 2 location with the Water Storage Facility.</p> <p>Construction of leases will include importing fill material.</p> <p>A PCP will be installed in Glasserton 2 and the well operated on test for 60 days minimum.</p> <p>Downhole monitoring gauges will be installed in Glasserton 3, 4 and Georges Island 3 with a wireline unit.</p> <p>Trucking of water from the water storage facility to an offsite disposal location will occur during the test.</p>
Activity start date:	1/06/2011
Activity end date:	30/09/2011
Tenement:	PEL 1

Request Contact Details	Requestor Contact Detail Type
Peter Clark	07 3838 3160

The Investigation Area

The **Investigation Area** means the land described below.

Please input the latitude and longitude for the location of the Investigation Area, which may involve multiple points, for example if the site is a large evaporation pond or excavation area. You can also put in the sequence for a set of points or points in a line, and a description for each of them. Please use degrees, minutes and seconds.

Seq	Latitude			Longitude			Description
	Deg	Min	Sec	Deg	Min	Sec	
1	-31	21	24.755	150	19	42.236	Glasserton 2, Well Centre, Lease Per Attachment
2	-31	21	21.70	150	19	30.12	Glasserton 3, Well Centre, Lease

Seq	Latitude			Longitude			Description
							Per Attachment
3	-31	21	35.541	150	19	23.052	Glasserton 4, Well Centre, Lease Per Attachment
4							Access Road Per Attachment
5	-31	21	37.34	150	19	40.52	Water Storage Facility
6	-31	21	18.37	150	19	48.31	Georges Island (N/E Corner)
7	-31	21	14.89	150	19	18.96	Georges Island (N/W Corner)
8	-31	21	39.13	150	19	13.69	Georges Island (S/W Corner)
9	-31	21	42.65	150	19	44.00	Georges Island (S/E Corner)
10	-31	21	43.22	150	20	0.66	Georges Island 3 (existing well)

Please also provide the GPS Datum from the GPS, which will usually be GDA94.

GPS Datum:	GDA94
-------------------	-------

Property details	Landholder details
Lot 1 on 1099622	Carbon Minerals NL

Action taken to comply with the Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales published by DECCW in September 2010.

Action taken	Results
1. Records Search	
A search of the Aboriginal Heritage Information Management System was undertaken on 28 day of March 2011.	Search results are attached: Evidence found of: <input type="checkbox"/> cultural heritage objects <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> cultural heritage sites <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No [Attach search results to report].
A search of other readily available resources [eg Santos GSI] was undertaken on: 28 day of March 2011. [These sources can include previous studies, surveys or reports of which you may be aware]	Results are attached [attach search results to report]. Evidence found of: <input type="checkbox"/> prior cultural heritage investigations <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> cultural heritage objects <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> cultural heritage sites <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Action taken	Results
<p>A search of Aboriginal Places was undertaken on 30 March 2011.</p> <p>[see list of Aboriginal Places on http://www.environment.nsw.gov.au/conservation/AboriginalPlacesNSW.htm]</p>	<p>Investigation Area is not an "Aboriginal Place".</p>
<p>The landholder was consulted as to whether they are aware of any sites or reports of Aboriginal objects in the area on:</p> <p>30 March 2011.</p>	<p>The landholder is aware of any sites or reports of Aboriginal objects in the area <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>2. Status of Investigation Area</p>	
<p>Consideration of whether the Investigation Area is "disturbed land".</p> <p>'Disturbed land' is defined in the Due Diligence Code as:</p> <p><i>Land is disturbed land if it has been the subject of human activity that has changed the land's surface, being changes that remain clear and observable. Examples include ploughing, construction of rural infrastructure (such as dams and fences), construction of roads, trails and tracks (including fire trails and tracks and walking tracks), clearing vegetation, construction of buildings and the erection of other structures, construction or installation of utilities and other similar services (such as above or below ground electrical infrastructure, water or sewerage pipelines, stormwater drainage and other similar infrastructure), substantial grazing involving the construction of rural infrastructure, and construction of earthworks associated with anything referred to above.</i></p>	<p>[Insert description of disturbances within Investigation Area, eg evidence of cultivation, ploughing, grazing, infrastructure, construction or utility developments]</p> <p>The Investigation Areas is situated within an agricultural property called Glasserton. It is located on a part of the property known as Georges Island, which is a small area of sparsely vegetated land rising above agricultural plains. The Investigation Areas was once used for grazing. It contains two abandoned quarries (constructed by the landholder) previously used for gravel extraction. These quarries have since formed two small ephemeral water bodies. The Investigation Area contains a number of access tracks. It does not contain any water courses.</p> <p>The three proposed pilot well sites and the proposed water storage site are located on land consisting of two disused gravel pits (Glasserton 2) that occur on either side of an existing access track, an area historically cleared for agricultural purposes (Glasserton 3), and a site that has been previously cleared (Glasserton 4).</p> <p>Photographs of Investigation Area are attached.</p> <p>The area of the lease sites have been heavily disturbed through agricultural activities</p>
<p>3. Landscape features</p>	
<p>Consideration of whether there are any landscape features within the Investigation Area or nearby which suggest the presence of Aboriginal sites, objects or places.</p> <p>The Due Diligence Code provides examples of landscape features including rock shelters, sand dunes, waterways, waterholes and</p>	<p>Visual inspection / photographs / environmental studies / etc [refer to source of conclusions] reveal that:</p> <p><input type="checkbox"/> landscape features were identified within the Investigation Area <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>

Action taken	Results
<p>wetlands.</p> <p>Is Investigation Area:</p> <ul style="list-style-type: none"> • within 200m of waters; • within a sand dune system; • on a ridgetop, ridge line or headland; • within 200m below or above a cliff face; or • within 20m of or in a cave, rock shelter or cave mouth? 	<ul style="list-style-type: none"> <input type="checkbox"/> landscape features were identified nearby the Investigation Area <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> no waterways were identified within 200 metres of the Investigation Area <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> no sand dune systems were identified within/nearby [delete where inapplicable] the Investigation Area <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> no /ridgetops, ridge lines or headlands were identified within/nearby the Investigation Area <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> no /cliff faces were identified within 200m above or below the Investigation Area <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> no /caves, rock shelters or cave mouths were identified within 20 metres of the Investigation Area <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>4. Results of visual inspection of Investigation Area</p>	
<p>On 30 day of March 2011 a visual inspection of the Investigation Area was undertaken by</p> <p>Name of assessor: Steven Coghill</p> <p>The purpose of the visual inspection was to:</p> <p>(a) Confirm the extent of land disturbance (if any);</p> <p>(b) Confirm the extent of landscape features (if any).</p> <p>If:</p> <ul style="list-style-type: none"> • any of the Investigation Area is undisturbed land (see Section 2 above); and • the Investigation Area contains landscape features or is near landscape features (see Section 3 above), <p>then the purpose of the visual inspection is also to determine whether Aboriginal objects can be identified or are likely to be present below the surface of the Investigation Area.</p> <p>Did an archaeologist inspect <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Name of archaeologist: Roark Muhlen Schuler</p>	<p>[Insert reasons for concluding that the visual inspection indicates that Aboriginal objects are/ are not likely to exist within the Investigation Area].</p> <p>A visual inspection of the Investigation Area confirmed that there are no landscape features within the Investigation Area or the vicinity of the Investigation Area which suggests the presence of Aboriginal Sites Objects or places.</p>

Action taken	Results
The Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales has been followed	
5. Conclusion	
Consider what the likely impact of the activity will be on the Aboriginal objects.	<p>Based on my inspection of the Investigation Area, the extent of land disturbance, the extent of landscape features (if any) and the various search results:</p> <ul style="list-style-type: none"> • further detailed investigation and impact assessment: <ul style="list-style-type: none"> <input type="checkbox"/> Is <input checked="" type="checkbox"/> Is not necessary. • an AHIP application: <ul style="list-style-type: none"> <input type="checkbox"/> Is <input checked="" type="checkbox"/> Is not necessary. <p>Work can proceed with caution.</p>

Assessor's Certification

Assessed by:	Santos assessor: Steven Coghill Archaeologist <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes name of archaeologist: Roark Muhlen Schuler
Assessment date:	30 March 2011