



## 11. Public Consultation

The primary intent of the Public Environmental Process is to inform the Environmental Protection Authority (EPA) and the public about the proposed development and any significant environmental impacts that may occur as a result. Informing the public is an important aspect of this process for two key reasons:

- » Issues and concerns that may not have been adequately considered in previously identified impacts and studies are reviewed and addressed;
- » Members of the public who may be immediately impacted, such as those who live near to the development or may also use the natural resources, for example water, may review how these resources will be managed.

The consultation strategy for this PER process has encompassed a range of opportunities for public commentary, including:

- » The distribution of Frequently Asked Question Sheets;
- » Media advertorials printed in the local 'Collie Mail' newspaper;
- » Public information evening and community workshop held in Collie on June 15<sup>th</sup>, 2009;
- » Technology briefing held in Collie on July 20<sup>th</sup>, 2009; and
- » The formal PER public comment period, an eight week period where the public and decision-making agencies have the opportunity to present formal submissions regarding the proposed development and associated environmental management strategies.

Further to the required public comment period, PCF intend to hold an additional community forum where the public will have the opportunity to respond to the recommendations of the PER to PCF's Directorate and Senior Managers. The public workshop will be advertised in the local media and stakeholders will be directly emailed. A register of attendees and associated contact details was recorded at the previously held community workshop. This register will be the basis of the email communication for the PER workshop.

In addition to the June 15<sup>th</sup> community workshop and the July 20<sup>th</sup> technology briefing, GHD has completed a number of interviews with key stakeholders to ascertain their views of the project and the environmental issues associated with the proposal. A list of the stakeholders consulted in during this PER process is listed in Table 84.

**Table 84 Stakeholders and community representatives and consultation to date.**

Category	Stakeholders	Events and Dates
Local Communities	Collie	9 March 2009. PCF launches the Collie Urea Project both in Collie and Perth. Stakeholders were invited to the launch and advised on the project and its intent.  15 June 2009 – Open invitation to Collie Community Information Session  TBC – A community forum to be held



Category	Stakeholders	Events and Dates
		during the PER comment period.
	Bunbury	23 June 2009 – GHD interview with Bunbury Port Authority representative on the Port Community Liaison Committee
Local Landowners/Immediate Neighbours	Individuals in the vicinity of the plant	15 June 2009 – Open invitation to Collie Community Information Session
Indigenous Groups	Nulang Boodja Council	May 2009 Consultation with Indigenous representatives undertaken to identify possible sites of significance. 15 June – Representatives attended Collie Community Information Session 20 July 2009 – Representative attended Technology Briefing
Environmental Groups and Organisations	Conservation Council	February – Mailed PER referral document 8 June 2009 – Phone/personal invitation to attend Collie Community Information Session
	Preston Environment Group	8 June 2009 – Phone/personal invitation to attend Collie Community Information session 15 June 2009 – Representatives attended Collie Community Information Session 20 July 2009 – Invitation to the Technology Briefing
	Collie Conservation Group	11 June 2009 – Stakeholder interview 15 June 2009 – Representatives attended Collie Community Information Session 20 July 2009 – Representative attended Technology Briefing
	South West Environment Group	15 June 2009 – Representatives attended Collie Community Information Session
	Friends of the Earth Southwest WA	15 June 2009 – Representatives attended Collie Community Information Session
	Weeds and Waterways Committee	9 June – Stakeholder interview 15 June – Stakeholder interview 15 June 2009 – Representatives



Category	Stakeholders	Events and Dates
		<p>attended Collie Community Information Session</p> <p>20 July 2009 – Representatives attended Technology Briefing</p>
Local Government Authorities	Shire of Collie: Exec staff and Elected Members	<p>10 December 2008 – PCF met with CEO and Shire President</p> <p>15 April 2009 – PCF met with Collie Shire Council and CEO</p> <p>9 June 2009 – discussion and site visit</p> <p>15 June 2009 – Stakeholder interview</p> <p>15 June 2009 – Representatives attended Collie Community Information Session</p> <p>20 July 2009 – Representatives attended Technology Briefing</p>
	City of Bunbury: Exec staff Elected Members	<p>8 June 2009 – discussion re level of interest in project</p> <p>15 June 2009 – Representative attended Collie Community Information Session</p>
	Shire of Harvey: CEO	20 July 2009 – Invitation to Technology Briefing
Local and Regional Business Councils	South West Development Commission	<p>9 April - PCF is an invited speaker at the SWDC's 2009 South West Conference Forum.</p> <p>15 June 2009 – Representatives attended Collie Community Information Session</p> <p>19 June 2009 – Representatives interviewed</p> <p>6 July – Representative interviewed</p> <p>20 July 2009 – Representatives attended Technology Briefing</p>
	Collie Chamber of Commerce	<p>15 June – Stakeholder interview</p> <p>15 June 2009 – Representatives attended Collie Community Information Session</p> <p>20 July 2009 – Representative attended Technology Briefing</p>
	Bunbury Chamber of Commerce	<p>7 May 2009 - PCF Presentation and Site Visit</p> <p>9 June 2009 – Stakeholder interview</p>



<b>Category</b>	<b>Stakeholders</b>	<b>Events and Dates</b>
Industry	BHP	15 June 2009 – Representatives attended Collie Community Information Session
	Griffin Energy	15 June 2009 – Representatives attended Collie Community Information Session
	Griffin Coal	October – December 2008 – PCF held series of meetings with key Griffin Coal representatives
		January - June 2009 – PCF held series of meetings with key Griffin Coal representatives
		15 June – Stakeholder interview
		15 June 2009 – Representatives attended Collie Community Information Session
	20 July 2009 – Representatives attended Technology Briefing	
	Harvey Water	January – June 2009 - PCF held series of meetings with Harvey Water 15 June 2009– Open invitation to Collie Community Information Session
WestNet Rail	November 2007 – June 2009 – PCF held series of meetings with WestNet Rail representatives 15 June 2009– Open invitation to Collie Community Information Session	
Worsley Alumina	12 March 2008 – PCF met with Worsley representative 8 July 2009 – PCF met with Worsley about Road Safety Alliance 15 June 2009 – Representatives attended Collie Community Information Session	
Premier Coal	3 April 2009 – PCF meet with Premier Coal representative 15 June 2009 – Representatives attended Collie Community Information Session	
Numans Group	15 June 2009 – Representatives attended Collie Community Information	



Category	Stakeholders	Events and Dates
		Session
	Verve Energy	22 April 2009 – PCF met with Verve representative 8 July 2009 – Meeting with Verve on pipeline access 15 June 2009 – Representatives attended Collie Community Information Session
	Coal Cliff	15 June 2009 – Representatives attended Collie Community Information Session
Business and Community Interest Groups	RAC	15 June 2009 – Representatives attended Collie Community Information Session
	Lions Club of Collie	15 June 2009 – Representative attended Collie Community Information Session
	Collie Visitor Centre	15 June 2009 – Representatives attended Collie Community Information Session
Local and Regional Businesses	Auto One	15 June 2009 – Representatives attended Collie Community Information Session
	Adams Family Services	15 June 2009 – Representatives attended Collie Community Information Session
	Collie Motel	13 June 2009 – Stakeholder interview
	Wombis Labour Hire	15 June 2009 – Representatives attended Collie Community Information Session
Media	Local media – Collie Mail	15 June 2009 – Representative attended Collie Community Information Session 20 July 2009 – Representative attended Technology Briefing
	State media	20 July 2009 – Invitation to the Technology Briefing
State Government Agencies	WA Police	15 June 2009 – Representative attended Collie Community Information Session 7 July 2009 – Representative interviewed



Category	Stakeholders	Events and Dates
	Main Roads WA	6 July 2009 – Representatives interviewed
	Bunbury Port Authority	<p>Jan – March 2009, PCF held series of meetings - Bunbury Port Agreement,</p> <p>3 June 2009 – Representative interviewed</p> <p>15 June 2009 – Representatives attended Collie Community Information Session</p> <p>23 June 2009 Stakeholder interview</p> <p>20 July 2009 – Representatives attended Technology Briefing</p>
	Department of Environment and Conservation (DEC)	<p>March – June 2009 – PCF held series of meetings with key DEC representatives, in Perth and in Collie</p> <p>12 June 2009 – Representatives interviewed</p> <p>15 June 2009 – Representative attended Collie Community Information Session</p> <p>20 July 2009 – Representatives attended Technology Briefing</p>
	Department of Health	15 June 2009 – Representative attended Collie Community Information Session
	Department for Planning and Infrastructure (DPI)	<p>7 &amp; 8 April 2009 – PCF meetings with key DPI representatives</p> <p>15 June 2009– Open invitation to Collie Community Information Session</p>
	Department of State Development (DSD)	<p>30 January 2009 – PCF discussions with DSD and Landcorp representatives</p> <p>January – June 2009 – PCF held series of meetings with DSD representatives</p> <p>15 June 2009– Open invitation to Collie Community Information Session</p> <p>20 July 2009 – Representative attended Technology Briefing</p>
	Department of Water (DOW)	<p>February - May 2009 - PCF held series of meetings with DOW representatives-</p> <p>March - April 2009 - Discussions with</p>



Category	Stakeholders	Events and Dates
		<p>Department of Water regarding Water Management Strategy</p> <p>9 June 2009 - Stakeholder interview</p> <p>15 June 2009 – Representative attended Collie Community Information Session</p> <p>29 June 2009 – Follow up discussion</p> <p>2 July 2009 – Follow up discussion re emissions</p> <p>20 July 2009 – Representative attended Technology Briefing</p>
	Landcorp	<p>25 November 2008 – PCF attended Shotts Industrial Park Risk Workshop in Collie</p> <p>30 January 2009 – PCF discussions with Landcorp and DSD representatives</p> <p>15 June 2009– Open invitation to Collie Community Information Session</p> <p>January – July 2009 – PCF held bi-weekly meetings with Landcorp</p> <p>20 July 2009 – Invitation to the Technology Briefing</p>
	Water Corporation	<p>23 February 2009 – PCF meeting with Water Corporation representatives</p> <p>15 June 2009 – Representative attended Collie Community Information Session</p>
	Construction, Forestry, Mining and Energy Union (CFMEU)	<p>March – May 2009 – PCF held meetings with CFMEU key representatives</p> <p>15 June 2009– Open invitation to Collie Community Information Session</p> <p>20 July 2009 – Representative attended Technology Briefing</p>
	Department of Mines and Petroleum	<p>20 July 2009 – Representative attended the Technology Briefing</p>
Western Australian Political Representatives	Key WA Political Representatives	<p>15 January 2009 – North West Chemical and Fertilisers Project Briefing</p> <p>January – February 2009 – PCF met with WA Premier, Leader of the Opposition and other key Ministers</p>
	MLA for Collie-Preston	<p>15 January 2009 – North West Chemical and Fertilisers Project Briefing</p>



Category	Stakeholders	Events and Dates
		12 June – Stakeholder interview 15 June 2009 – MLA attended Collie Community Information Session 20 July 2009 – MLA attended Technology Briefing
	Minister for Local Government, Member for Bunbury	15 June 2009 – Open invitation to Collie Community Information Session 20 July 2009 – Invitation to the Technology Briefing
	Department of Premier and Cabinet	15 January 2009 – North West Chemical and Fertilisers Project Briefing
Federal Political Representatives	Key Federal Political Representatives	February 2009 – PCF met with key Federal political representatives

A number of issues were common to the majority of groups and individuals most notably:

- » Air quality emissions and the cumulative impact to the Collie air shed;
- » Water supply options and water source protection;
- » The scope and commitment to local employment and business development opportunities;
- » Traffic congestion through Collie; and
- » Greenhouse Gas emissions.

Other issues raised were particular to interest groups, in particular:

- » Cumulative noise impact at Bunbury Port;
- » Risk management and emergency response strategies developed for possible bushfire risk, industrial accidents and chemical spills;
- » Potential tourism impacts at Stockton Lake.

A summary of environmental and social issues raised is shown in Table 85.



**Table 85 Key issues raised and Proponent's response.**

<b>Element/Factor</b>	<b>Issues Raised</b>	<b>Proponent's Response</b>	<b>Reference in PER</b>
<i>Collie related</i>			
Water supply and use	Intensity of water requirements and impact on future of water sources in the region	Capture water on site	
	Pressure on Wellington Dam	Pipe water from Wellington Dam DoW advises that Wellington Dam has capacity to provide a supply and has assigned 12 GL to PCF on this basis. This resource will be monitored and alternative sources also used if they become available.	
	Pressure on already threatened Collie River	PCF will not be drawing from the Collie River, although there may be opportunity to take saline river 'diversion' water' from a proposed DoW desalination plant if it is built.	
	Uncertainty about how much can be safely drawn		
<b>Element/Factor</b>	<b>Issues Raised</b>	<b>Proponent's Response</b>	<b>Reference in PER</b>
Water supply and use continued ..		The DoW will regulate the resource and reduce the allocation if the resource comes under pressure.	
	Need for a back-up supply	PCF is arranging back up supplies.	
	Concern about using mine de-watering, Wellington Dam or river diversion and not water from the ocean	The Desalination option is too expensive and energy intensive.	
Water quality / waste	Wastewater disposal methods	PCF is currently negotiating with	



water management	and contingency plans	Verve in relation to possible access to Verve's power station ocean outfall for disposal of saline wastewater. A concentrator will be installed and the wastewater concentrated for safe disposal to mine voids in accordance with regulations, if access to the pipeline cannot be obtained.
Groundwater contamination	Concern about possible groundwater contamination.	PCF will install groundwater monitoring bores on the PCF site to detect any contamination before it leaves the site. Groundwater licence holders in vicinity of PCF's plant will monitor the local groundwater as per their licence conditions.
	Monitoring of private bores to check quality of groundwater	PCF will not be monitoring third party private bores unless required by licence to do so and access can be arranged
Desalination	Managing the risk of saline water leaking into groundwater	All desalination brine will be briefly stored at the site and either pumped to the Verve ocean outfall pipeline after testing or concentrated and safely landfilled in accordance with regulations.
	Consider pumping water from the sea and desalinating	This option is too expensive and energy intense.
Conservation and environment values	Concern over habitat loss and impacts on the threatened species in the region	Site is within a Country Area Water Supply Catchment (CAWS) and will be subject to strict clearing guidelines.
	Concern about the extent of the area to be cleared	Extensive State Forest area surrounding the Shotts Industrial Park will remain intact  The Flora survey identified high value patches of vegetation. Most of these patches will be retained.
Conservation and environment values continued	Cumulative environmental impacts from all Collie industry	.The EPA requires that PCF undertake cumulative modelling for air quality and noise impacts.  The PCF plant will add few



	<p>Need for post closure rehabilitation plans</p> <p>Fire risk to environment. Need to have outward facing fire control measures.</p>	<p>pollutants to the environment, due to the very high process temperatures and enclosed nature of the processes.</p> <p>PCF acknowledges this and intends to prepare a closure plan that will be reviewed and subject to environmental standards.</p> <p>PCF will prepare a fire management plan. Fire fighting monitors will be capable of direction towards surrounding forest in the event of forest fires as well as towards the plant.</p>
Air quality and CO <sub>2</sub> emissions	<p>Amount of CO<sub>2</sub> emissions</p> <p>Concern about particulate and dust emissions settling on town</p>	<p>Emissions reduction strategies</p> <ul style="list-style-type: none"> <li>a) One third of the total CO<sub>2</sub> is sequestered in the urea product</li> <li>b) PCF is investing in plantation offsets</li> <li>c) PCF is investing in geosequestration research</li> <li>d) Urea enhances plant growth which in turn biosequesters carbon</li> </ul> <p>Minimal impact on air quality expected as the plant uses sophisticated gasification technology to convert the coal into gas in a closed system. Heavy metals will be captured in gasifier slag, with no fly ash being produced</p> <p>Air modelling will account for emissions from other operations, for example Muja A and B</p> <p>CO<sub>2</sub> may be geo-sequestered if the technology becomes available and is viable.</p>
Geo-sequestration	<p>Concerns about unproven technology</p> <p>Responsibility for carbon</p>	<p>This is unproven technology. PCF is investing in this research.</p>



footprint		
Traffic and safety	<p>Major increase during construction</p> <p>Congestion and road safety concerns during construction and operation</p>	<p>Close co-operation with Shire, WA Police, Main Roads and other local industries to manage traffic issues during construction phase and thereafter. PCF has joined the road Safety Alliance to participate in initiatives to reduce risks to road safety in the region.</p> <p>Rail direct from the plant to the port (two, 55 carriage trains daily) will reduce road congestion.</p>
Health and Safety	<p>Chemical emissions and impact on public health</p> <p>Risk of explosion or chemical leaks or spills</p> <p>Emergency access</p>	<p>Air quality modelling and regular air monitoring will be undertaken in accordance with Health Guidelines. PCF does not intend to impact the health of the local community and will take steps to manage the quality of the environment in which people live and work.</p> <p>PCF risk management plan will include response, cleanup and monitoring procedures.</p> <p>Emergency access considerations will be addressed through risk management plans and involvement in initiatives of the Road Safety Alliance.</p>
Noise	Concern about cumulative noise impacts	<p>Noise buffer zones and noise controls</p> <p>Noise monitoring</p>
Visual Impact	Concern about height of plant	The highest point of the plant is 100m. This will not stand out in this particular landscape.
Energy	Inadequate local energy supply for construction	<p>Diesel generators will probably be brought in.</p> <p>After construction energy will be generated using low emission gas turbines which will supply all PCF's needs.</p>
Recreation	Possible impact on Stockton Lake	Stockton Lake will not be impacted. Surface water and



	Potential impact on tourism	<p>tributary flows supplying Stockton Lake will not be impacted by the operations of the plant.</p> <p>PCF will undertake to contribute to improvement of recreational facilities in the Collie area.</p>
Employment, business and regional development	<p>Concern that Collie will not benefit directly or adequately</p> <p>Concern about possible impact on local businesses</p> <p>High level of interest in business and employment opportunities</p> <p>Concern to maximise opportunities for indigenous youth</p>	<p>Local preference for employment and supply of goods and services. PCF has publicly committed to giving local Collie area people first option for employment opportunities.</p> <p>Local sponsorship</p> <p>Demand for local services will increase</p> <p>Training opportunities and capacity building in Collie, working with local business associations and indigenous training organisations.</p>
Accommodation	<p>Timing of construction conflicts with Worsley upgrade so pressure with two campus</p> <p>Should utilise existing facilities and expand on the east side of town</p> <p>Additional accommodation needed in town for staff</p>	<p>PCF is paying attention to the accommodation needs of the employees and will provide accommodation if it is required.</p> <p>PCF intends to utilise local resources to their potential.</p> <p>PCF will address if workforce planning highlights this need.</p>
Community services	Concern about increased pressures on local services and infrastructure eg schools and medical	Collie currently well serviced. Impacts can be managed by communications between PCF and relevant agencies/service bodies to prepare for additional use.
Local farmers	Would like access to urea for local use	The urea produced is intended for export because the quantities produced are well in excess of local market demand. PCF is considering how it might



		supply the local market to the benefit of urea end users, through a Cooperative or like arrangement. Other materials such as sulphur by products will be available for local sale.
Community cohesion	Would like PCF to contribute to local economy and community infrastructure eg support local events, supply products and materials to local organisations, involvement with local government	PCF will support the local community and has already provided some ad-hoc assistance to local events. PCF will inform the community as to how they may apply for support. PCF has final discretion as to what events it will sponsor and how much they will sponsor. PCF intends to 'buy' and 'hire' local as much as possible.
Ongoing consultation	Community wants ongoing communication and consultation  Public comment period should not be over a holiday period	Regular information updates in the local media  Formation of a consultative committee/liaison group which includes residents  The PER public review period will be 8 weeks, which is significantly longer than any school holiday period.
Social responsibility	Solubility of urea could cause eutrophication of groundwater and wetlands in India  Exporting a product that Australia imports is a waste of resources	If urea is managed well, for example is not applied immediately before a rainfall event, then N losses to the environment are minimised. Urea is an essential fertiliser for agricultural production. How it is applied and the conditions in which it is applied are best managed by agricultural agencies.  PCF has a flexible agreement for the sale of Urea to India. This agreement provides support for the feasibility of this project and the investing and employment future of the region. However, urea might also be made available for local sale to an established cooperative or marketing network.
Accountability	PCF should set up an office in Collie	PCF will establish an office or contact in Collie when it moves



		into the detailed engineering phase of its project.
	Monitoring results should be available on a daily basis	Monitoring will be available as per regulatory requirements.
	Clear procedures for informing community when limits are exceeded	This is a normal statutory licensing obligation and these procedures will be established with the Local Government and the DEC.
<i>Bunbury related</i>		
Air quality and emissions	Particulate and dust emissions	Emissions will be monitored by the Port Authority.
Water quality / waste water management	Managing water emissions from washdown of equipment at Bunbury Port	The BPA and PCF will build a washdown system to capture Urea and prevent the product reaching the Port water.
	Storm water management Monitoring shallow ground water	BPA is required to monitor as per its groundwater licence conditions.
Port	Possible dredging of the port	This is not required as the channel is already deep enough for urea ships.
	Carrier size and number of berths	Panamax and Handimax ships with a loading capacity of 50 000t and 25,000t respectively will be transporting the urea.  PCF will be loading from one Berth – Berth 5.
Health and safety	Product concerns (size, dust, solubility, hazard rating), shed ventilation, spillage control	The shed will be fully enclosed and will incorporate dust control systems to capture any urea particles during rail unloading and shiploading.
Noise	Impact on nearby residents	Background noise readings have been taken as part of this investigation. PCF intends to minimise rail car unloading noise emissions by utilising continuous railcar unloading practices.
Traffic and safety	Additional rail movements contributing to congestion and delays and impacting on safety	WestNet will be responsible for rail movement and coordination of rail access. Signalling will be



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		upgraded to improve safety.
Visual Impact	Concern about height of plant and shed (in Bunbury Port)	The shed will be a significant structure visually but consistent with the existing port landscape.
Employment, business and regional development	Interest in employment opportunities and service provision from Bunbury	PCF will look to employ locally wherever possible.

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