



**Government of South Australia**

Primary Industries and Regions SA

# **PIRSA FISHERIES & AQUACULTURE**

## **COST RECOVERY PROGRAM**

**2016-17**

### **ROCK LOBSTER FISHERY**

#### **NORTHERN ZONE**

# CONTENTS

<b>SUMMARY TABLE ROCK LOBSTER FISHERY - NORTHERN ZONE .....</b>	<b>3</b>
<b>INTRODUCTION .....</b>	<b>4</b>
<b>PROGRAM: FISHERIES POLICY AND MANAGEMENT .....</b>	<b>7</b>
<b>PROGRAM: LEGAL SERVICES.....</b>	<b>10</b>
<b>PROGRAM: LEASING AND LICENSING .....</b>	<b>12</b>
<b>PROGRAM: DIRECTORATE .....</b>	<b>14</b>
<b>PROGRAM: FISHERIES COMPLIANCE OPERATIONS.....</b>	<b>16</b>
<b>PROGRAM: STOCK ASSESSMENT AND MONITORING .....</b>	<b>28</b>

FINAL DOCUMENT

## SUMMARY TABLE ROCK LOBSTER FISHERY - NORTHERN ZONE

2015-16	PROGRAM AREA	2016-17	COMMENTS	DAYS	FTE
<b>Research Costs</b>					
272,163	Stock Assessment and Monitoring	279,493	As per first year of three-year scope.		
8,732	Economic Assessment	8,880	As per contracted services 2016-17		
2,452	TEPS	2,525	Contribution towards Threatened and Endangered Species		
<b>PIRSA Related Costs*</b>					
80,478	Policy and management	81,846	Same level of service as previous year	90	0.45
4,881	Legislation	4,964	Same level of service as previous year	5	0.03
38,455	Licensing	39,109	Same level of service as previous year	55	0.28
14,182	Directorate	14,423	Same level of service as previous year	16	0.08
688,304	Compliance	700,005	Same level of service as previous year	570	2.85
35,805	Vessel	36,414	Same level of service as previous year	5	0.03
56,700	VMS	56,700	Same level of service as previous year	63	0.32
29,962	Quota Monitoring	30,471	Same level of service as previous year	50	0.25
<b>Other Costs</b>					
0	eData application	50,000	Co-Management Services Project: Deckhand implementation 2016-17.		
43,428	FRDC	48,360	Funding based on 0.25% of rolling three year average GVP		
208,953	Co-Management Services	217,500	Co-Management Services requested for 2016-17; includes pot sampling \$35,000, and RLMAC \$20,000.		
35,000	Additional Research	0	Pot Sampling included within Co-Management Services line.		
<b>\$1,519,495</b>	<b>TOTAL</b>	<b>\$1,570,690</b>			

Licence Fees	2016-17
Base Fee	3,655
Quota Unit Fee	10.60
Giant Crab Unit Fee	21.30
By-catch fee	11.90
<i>Licence Fees</i>	<i>2015-16</i>
Base Fee	3,275
Quota Unit Fee	21.10
Giant Crab Unit Fee	20.95
By-catch fee	11.75

\* The indexation rate of 1.7% has been applied to 'PIRSA Related Costs' section, based on advice from the Department of Treasury and Finance of the rate required to be applied for the 2016-17 fees and charges process.

## INTRODUCTION

Wild catch commercial fisheries in South Australia continue to be managed in accordance with the PIRSA Cost Recovery Policy. This policy requires commercial fishery licence fees to fund services related to commercial fisheries management costs. PIRSA Fisheries & Aquaculture continue to manage the process of consulting with service providers and relevant industry associations to establish fishery based management programs which form the basis of annual licence fees.

For each sector, the program required to manage the fishery has the following components:

- Assessment and Research Services;
- Fisheries Policy and Management Services;
- Compliance Services, including communication, enforcement and monitoring activities;
- Support Services, including Legislation, Licensing and Business Services (Directorate).

This documentation provides a framework to assist in establishing appropriate research, policy, compliance and support services to manage a fishery.

## NORTHERN ZONE ROCK LOBSTER FISHERY MANAGEMENT OBJECTIVES 2016/17 TO 2018/19

Long term objectives	Outcomes 2016/17 to 2018/19	Fishery Policy and Management	Compliance	Assessment and Research	Systems & Information
<p>Ensure the Rock Lobster resource is harvested sustainably</p> <p>Optimum economic utilisation and equitable distribution of the Rock Lobster resource</p>	<p>Stock rebuilding</p> <p>Ensure sufficient data and information is available to inform harvest strategy</p> <p>Consideration of temporal management of stocks</p> <p>Maintain integrity in quota system</p> <p>Review harvest strategy in 2017/18</p> <p>Review management plan under the <i>Fisheries Management Act 2007</i> in 2018/19</p> <p>Finalise implementation of e-catch reporting arrangements</p> <p>Develop sub-committee of RLFMAC to progress regulatory reform initiatives including regulatory reform, licensing transactions and e-business.</p>	<p>Consider temporal management of stocks</p> <p>Support FRDC project relating to catch rate standardisation and alternative pot design</p> <p>Lead review of harvest strategy in 2017/18</p> <p>Lead review of management plan in 2018/19</p> <p>Support implementation of e-catch reporting arrangements</p> <p>Support RLFMAC sub-committee to progress regulatory reform initiatives including regulatory reform, licensing transactions and e-business.</p>	<p>Implement compliance program, informed by risk assessment</p> <p>Support review of management plan in 2018/19</p> <p>Support implementation of e-catch reporting arrangements</p> <p>Support RLFMAC sub-committee to progress regulatory reform initiatives including regulatory reform, licensing transactions and e-business.</p>	<p>Stock assessment and monitoring to underpin stock status and stock assessment reports</p> <p>Provide scientific advice to inform decision-making process of new harvest strategy</p> <p>Conduct puerulus monitoring program</p> <p>FRDC project relating to catch rate standardisation and alternative pot design (proposal 2016/17, project from 2017//8)</p> <p>Support review of harvest strategy in 2017/18</p> <p>Support review of management plan in 2018/19</p> <p>Support implementation of e-catch reporting arrangements</p>	<p>Provide ongoing support for licensing, quota and transfer queries</p> <p>Support review of management plan in 2018/19</p> <p>Lead implementation of e-catch reporting arrangements</p> <p>Support RLFMAC sub-committee to progress regulatory reform initiatives including regulatory reform, licensing transactions and e-business.</p>
<p>Minimise impacts on the ecosystem</p>	<p>Address recommendations from DotE under EPBC Act accreditation</p>	<p>Address DotE recommendations</p> <p>Facilitate implementation of any approved alternative SLEDs</p>		<p>Monitor TEPS interactions through logbooks</p> <p>Facilitate implementation of any approved alternative SLEDs</p>	

<p>Cost effective and participative management of the fishery</p>	<p>Support co-management of the fishery</p>	<p>Support the co-management and consultative processes</p> <p>Participate in the co-management and consultative processes</p> <p>Regular communication with industry and attendance at meetings, as required.</p> <p>Implement rules review outcomes</p>	<p>Implement compliance program, informed by risk assessment</p> <p>Support the co-management and consultative processes</p> <p>Industry liaison and attendance at meetings, as required</p>	<p>Participate in management and consultative processes</p> <p>Industry liaison and attendance at meetings, as required</p>	<p>Provide ongoing support for licensing, quota and transfer queries</p>
---	---	---	--	---	--

FINAL DOCUMENT

## PROGRAM: FISHERIES POLICY AND MANAGEMENT

### PROGRAM MANAGER

Alice Fistr, Manager Fisheries Policy and Management Unit  
Telephone: 08 8429 0187 Email: [Alice.Fistr@sa.gov.au](mailto:Alice.Fistr@sa.gov.au)

### PROGRAM SUMMARY

The Fisheries Policy and Management Unit of PIRSA Fisheries & Aquaculture undertakes activities such as day-to-day management, long-term planning and policy development for South Australian commercial, recreational and Aboriginal traditional fisheries

The Fisheries Policy and Management unit has the following core functions:

- Administer the *Fisheries Management Act 2007* and regulations.
- Day-to-day management of fisheries resources, to ensure catch and effort levels are commensurate with resource sustainability.
- Develop and implement management plans, including harvest strategy development and ESD risk assessment, in accordance with the *Fisheries Management Act 2007*
- Provide advice to the Minister for Agriculture, Food and Fisheries, Chief Executive and Executive Director on matters relating to fisheries
- Represent the Director, Fisheries & Aquaculture Policy and Director, Operations on committees and other forums on matters related to the administration of the *Fisheries Management Act 2007*
- Develop over-arching policy frameworks to support fisheries management
- Build and maintain relationships with key stakeholders, with a particular focus on the commercial and recreational fishing sectors
- Progress Australian Government recommendations under EPBC Act assessment

### OBJECTIVES

To provide day-to-day fisheries management services to the Northern Zone Rock Lobster Fishery to government and industry, as well as providing advice and facilitation of fisheries policy and management issues, through the Fisheries Policy and Management Program.

## **PROGRAM STRATEGIES AND SUPPORTING ACTIONS & INITIATIVES**

### **PROGRAM DELIVERY**

1. Participate in inter and intra-departmental meetings and workshops on issues relevant to fisheries management
2. Liaise within the Fisheries and Aquaculture Division, with SARDI Aquatic Sciences, other parts of PIRSA and other State and Commonwealth agencies on matters relevant to fisheries management
3. Liaise within PIRSA, with other government agencies and with industry representatives in implementing decisions relevant to fisheries management
4. Conduct regular assessment or review of existing management arrangements for fisheries management, including analysis of statistical information on fisheries and interactions with threatened, endangered and protected species
5. Coordinate consultation with fishery stakeholders through established co-management processes
6. Participate in industry liaison in the field and on vessels to strengthen fishery management knowledge and understanding, and develop rapport with licence holders
7. Participate in industry development initiatives related to fisheries management
8. Attending to general correspondence and enquiries relevant to fisheries
9. Provide advice to Minister in relation to the management of fisheries and Ministerial correspondence
10. Communicate on fisheries management issues to key stakeholder groups and the broader community

### **ANTICIPATED OUTCOMES**

- Prepare day-to-day necessary legislative instruments and/or advice required for the management of the Northern Zone Rock Lobster Fishery (regulations, closure notices, licence conditions, Ministerial exemptions etc).
- Provide advice to the Minister or his/her delegate on setting total allowable commercial catch and effort levels for the Northern Zone Rock Lobster Fishery
- Prepare policies to support fisheries management
- Prepare submissions to enable regular assessment of the Northern Zone Rock Lobster Fishery under the EPBC Act
- Prepare annual report to the Australian Government on EPBC Act requirements for the Northern Zone Rock Lobster fisheries
- Facilitate distribution of status reports prepared by SARDI
- Develop and maintain day-to-day productive working relationships and outcomes through cooperative management and collaboration with stakeholders
- Further the development of co-management arrangements



Performance Indicators:

1. Strong industry and government involvement in co-management relationship and adherence to formally agreed co-management arrangements.
2. Develop and implement management plan. Management plans to include harvest strategies that protect sustainability of the fishery based on ESD risk assessment processes.
3. Australian Government recommendations met in relation to EPBC assessment.
4. Setting of TACC for Northern Zone Rock Lobster Fishery

**PROGRAM EFFORT ALLOCATION**

The table below includes an abbreviated suite of core activities reflect the anticipated split of effort and associated costs.

<b>Strategy/Activities</b>	<b>Days</b>	<b>FTE</b>	<b>Cost (\$)</b>
Policy and Management:	90	0.45	81,846
<b>TOTALS</b>	<b>90</b>	<b>0.45</b>	<b>81,846</b>

*Please Note: All dollar values have been rounded to the nearest dollar figure.*

## PROGRAM: LEGAL SERVICES

### PROGRAM MANAGER

Lambertus Lopez, Manager, Legal and Legislative Programs  
Telephone: 08 8429 0527 Email: [Lambertus.Lopez@sa.gov.au](mailto:Lambertus.Lopez@sa.gov.au)

### PROGRAM SUMMARY

PIRSA Fisheries & Aquaculture Directorate provides legal services to the Group Executive Director and all other members of the Division, in particular the policy group, on a daily basis. Among other things these services include strategic advice and problem solving, review of draft documentation and correspondence, statutory interpretation and the provision of general advice and statutory interpretation, in consultation with the Crown Solicitor's Office where necessary, regarding any legal issues relating to proposed actions and the implementation or administration of Northern Zone Rock Lobster fisheries management and regulatory arrangements through existing legislative frameworks and licence conditions. Consideration is also given to the impacts and effects of other related legislation if and when required.

### OBJECTIVES

To provide legal services supporting the implementation of necessary, appropriate and effective statutory and administrative changes to government administration of all fishery sectors, as well as strategic advice and facilitation of related policy development, legislative and regulatory issues, through the Legal Services Program.

### PROGRAM STRATEGIES AND SUPPORTING ACTIONS & INITIATIVES

#### ANTICIPATED OUTCOMES

1. Co-ordinate the introduction, amendment or revocation of Fisheries legislation in line with Fisheries Policy decisions i.e. Act or regulation amendments, the introduction of new regulations and drafting of other legislative and administrative instruments such as delegation, permit or exemption instruments as required under the *Fisheries Management Act 2007* (the Act). New regulations or amendments require the drafting of Cabinet submissions and supporting documentation, including the preparation of drafting instructions, for consideration by Cabinet. This service includes co-ordinating the cabinet process involving liaison with the Office of Parliamentary Counsel and the Crown Solicitor's Office and inter agency consultation to ensure that proposed regulatory arrangements are accurately described, drafted and scrutinised before being implemented.
2. Review licensing arrangements required on an as needs basis to appropriately implement approved fishery management policy and measures within the limitations of the Act. The service includes working with the Licensing program (part of Systems and Information) where necessary to implement efficient administrative systems and finalise forms and instruments that are legally sound.
3. Problem solve together with the provision and co-ordination of legal advisory services in liaison with the Crown Solicitor's office relating to the implementation and administration of the Act, Regulations and fisheries management policies, interaction with other Acts, and the defence of those policies and arrangements raised in litigation or industry correspondence.

4. Coordinate applications for Ministerial exemptions under Part 10 Division 1 and Permits under Part 7 Division 2 of the Act.
5. Additional legal services to support, on an as needs basis, the decision-making of the Director Fisheries and Aquaculture policy and the Director Operations and other delegates of the Minister under the Act to safeguard the ongoing sustainability of a fishery in any particular year (where required), depending on positive or negative scientific indicators, to implement new fisheries management arrangements (for example the introduction or variation of a quota system) or new administrative or compliance arrangements (for example, changes to licensing processes, conditions, introduction of closures).
6. Support compliance for statutory interpretation, problem solving and correspondence advice (per above).

### PROGRAM EFFORT ALLOCATION

The table below includes an abbreviated suite of core activities reflect the anticipated split of effort and associated costs.

Strategy/Activities	Days	FTE	Cost (\$)
Legislation	5	0.03	4,964
<b>TOTALS</b>	<b>5</b>	<b>0.03</b>	<b>4,964</b>

*Please Note: All dollar values have been rounded to the nearest dollar figure.*

## **PROGRAM: LEASING AND LICENSING**

### **PROGRAM MANAGER**

Erin Conlon, Manager, Leasing & Licensing

Telephone: 08 8204 1374 Email: [Erin.Conlon@sa.gov.au](mailto:Erin.Conlon@sa.gov.au)

### **PROGRAM SUMMARY**

The Fisheries Leasing & Licensing Section of PIRSA Fisheries & Aquaculture is responsible for the management of Licensing, Quota Monitoring and VMS services. This business unit provides a range of services related to the timely processing and management of information leading to the issue of licences and other reporting services.

The unit administers a licensing call centre for licence inquiries and other administrative services. The success of these functions is based on maintaining the Primary Industries Information Management System (PIIMS) database.

### **OBJECTIVES**

To provide leasing and licensing services to government and industry through the Leasing and Licensing Program.

### **PROGRAM STRATEGIES AND SUPPORTING ACTIONS & INITIATIVES**

#### **ANTICIPATED OUTCOMES**

1. Issue licences to licence holders in an accurate and timely manner.
2. Provide accurate and timely information related to licences.
3. Provide quarterly activity report (as required), within one month at the end of each quarter.

#### **Services to directly support the fishery:**

1. Renew and maintain fishery licences.
2. Database management for licence renewal.
3. Collect licence fees and associated payments.
4. Compose and send quarterly instalment notices.
5. Record and track unpaid renewals.
6. Compose and send late payment instalment notices for un-paid quarterly instalments.
7. Draft and issue notices to Fishers.
8. Process requests for information from fishers who make such inquiries over the counter, through the call centre, via facsimile or e-mail. For example, helping fishers to process information relevant to licence renewal forms, application for licence transfers, boat changes, gear enquiries and fishing regulations.
9. Regularly update information about licence holders.
10. Research and prepare documents for public record.
11. Liaise with government stakeholders to verify the credentials of fishers.

12. Liaise with PIRSA Fisheries & Aquaculture, SARDI Aquatic Sciences, Crown Solicitors and other state and local agencies on matters relevant to the fishery.
13. Draft and update licence conditions over the duration of the licensing year as determined by the Executive Director, Fisheries and Aquaculture and the Director, Fisheries and Aquaculture Policy.
14. Provide information to licence holders relating to the requirements pursuant to licence administration.
15. Manage calls from fishers regarding late payment notices, fees and general enquiries about their licences.
16. Provide support regarding an increased frequency of last minute administrative enquiries from fishers. e.g., master changes and quota transfers, as well as provide advice and support to fishers on licence information, to complete the required forms.

#### **Services to support fisheries management:**

1. Participate in inter and intra departmental meetings and workshops on issues relevant to the fishing industry.
2. Liaise with relevant staff within PIRSA Aquaculture and Fisheries in implementing decisions relevant to the fishery.
3. Interrogate the PIIMS database to extract information for other stakeholders to use in preparing reports.
4. Prepare reports requested by internal and external customers including maintenance of a public register of licence holders.
5. Liaise with information technology providers to maintain PIIMS and administer licensing requests.
6. Generate quota management reports to update stakeholders on varying Total Allowable Commercial Catch (TACC) returns and end of season quota holdings.

#### **PROGRAM EFFORT ALLOCATION**

The table below includes an abbreviated suite of core activities reflect the anticipated split of effort and associated costs.

<b>Strategy/Activities</b>	<b>Days</b>	<b>FTE</b>	<b>Cost (\$)</b>
Leasing and Licensing	55	0.28	39,109
Quota Monitoring	50	0.25	30,471
<b>TOTALS</b>	<b>105</b>	<b>0.53</b>	<b>69,581</b>

**Please Note:** All dollar values have been rounded to the nearest dollar figure.

## PROGRAM: DIRECTORATE

### PROGRAM MANAGER

Chiara Ciui, Business Manager

Telephone: 08 8429 0378 Email: [Chiara.Ciui@sa.gov.au](mailto:Chiara.Ciui@sa.gov.au)

### PROGRAM SUMMARY

Business Strategy, within Directorate of PIRSA Fisheries & Aquaculture, provides a range of services to support fisheries management. These include coordinating the cost recovery process and establishing agreements with service providers; coordinating program provider reports; administering external contracts and agreements; and providing audit, financial and human resource functions.

### OBJECTIVES

To provide support services to government and industry, as well as advice and facilitation of corporate related policy and management issues, through the Directorate Program that incorporates the Fisheries & Aquaculture Business Strategy Unit.

### PROGRAM STRATEGIES AND SUPPORTING ACTIONS & INITIATIVES

#### ANTICIPATED OUTCOMES

1. Coordinate and facilitate cost recovery processes and program agreements, including liaising with program providers, managers and financial services as required.
2. Attend meetings relating to cost recovery, licence setting and related policy issues.
3. Develop and review cost recovery policy, processes and program agreements.
4. Manage major service providers' contractual agreements, and co-management services contractual agreements with industry associations
5. Project manage and administer external contractual services and agreements – including liaising with PIRSA Accredited Purchasing Unit, preparing acquisition plans and selecting evaluation criteria, managing tender processes, drafting purchase recommendations and liaising with the Crown Solicitor's office to develop contractual agreements.
6. Provide advice on procurement and invoicing requirements.
7. Consult with the Group Executive Director, Director, Fisheries and Aquaculture Policy, Director, Operations, PIRSA fisheries managers, and the Office of the Minister and other parties as needed.
8. Ongoing review, development and documentation of the cost recovery model, framework, processes and roles.
9. Meet agreed timeframes on management and administration of external contractual services.
10. Appropriate management of industry funds and services.

## PROGRAM EFFORT ALLOCATION

The table below includes an abbreviated suite of core activities and initiatives used to manage risks and reflect the anticipated split of effort and associated costs.

<b>Strategy/Activities</b>	<b>Days</b>	<b>FTE</b>	<b>Cost (\$)</b>
Directorate	16	0.08	14,423
<b>TOTALS</b>	<b>16</b>	<b>0.08</b>	<b>14,423</b>

*Please Note: All dollar values have been rounded to the nearest dollar figure.*

FINAL DOCUMENT

## **PROGRAM: FISHERIES COMPLIANCE OPERATIONS NORTHERN ZONE ROCKLOBSTER FISHERY**

### **PROGRAM MANAGER**

Andrew Carr

Regional Manager

Telephone: 0438 459 679

Email: [andrew.carr@sa.gov.au](mailto:andrew.carr@sa.gov.au)

### **STATE COORDINATOR**

Greg Rowley

Fisheries Officer

Telephone: 0428 106 216

Email: [gregory.rowley@sa.gov.au](mailto:gregory.rowley@sa.gov.au)

### **COMPLIANCE PROGRAM SUMMARY**

PIRSA Fisheries and Aquaculture teams undertake coordinated compliance activities to educate fishers, deter opportunistic and financially motivated fishery related crimes and enforce the rules and regulations.

In consultation with industry a dedicated compliance plan has been developed for the Northern Zone Rocklobster fishery. This compliance plan was developed to direct effort and ensure compliance activities are intelligence driven, efficient and cost effective and outcome focussed. The compliance plan is underpinned by three core strategies (Education and Awareness, Effective Deterrence and Appropriate Enforcement) and is focussed towards increasing voluntary compliance and maximising effective deterrence.

A detailed analysis of intelligence and information holdings is conducted to identify the major risks for the fishery. A series of strategies, actions, and initiatives are detailed and used to focus the primary compliance effort in order to manage the risks and achieve targeted outcomes.

### **OBJECTIVES**

This program provides a compliance framework to monitor and regulate fishing activities that support the sustainable commercial take of Rocklobster in the Northern Zone Rocklobster Fishery in accordance with the Act and the Northern Zone Rocklobster Fishery Management Plan.

The plan provides a focus for the teams to undertake coordinated compliance activities to educate fishers, deter opportunistic and financially motivated fishery related crimes, and enforce the rules and regulations of the fishery.

Any risks or emerging trends/issues of significance that arise outside the plan are addressed as required.

The risks and strategies are regularly reviewed and assessed for relevance to ensure compliance activities meet the following objectives:

- Meet the objectives of the *Fisheries Management Act 2007*;
- To promote compliance with the *Fisheries Management (Rocklobster Fisheries) Regulations 2006*;
- To support meeting the goals and objectives of the Northern Zone Rocklobster Fishery Management Plan;
- To promote increased voluntary compliance;
- To deliver an effective education and awareness program;
- Continue developing effective deterrence strategies;
- Undertake appropriate enforcement activities;
- Increase integrity in fishery management systems and/or quota systems;
- Promote positive interactions & collaboration with stakeholders;
- To deliver an efficient and effective compliance program.



## **COMPLIANCE EFFORT**

- Monitoring of Northern Zone Rocklobster fishery management and quota systems for compliance and integrity;
- Offence identification and response;
- Operational and Investigation Planning and Surveillance;
- Risk assessments, trend and threat analysis;
- Master Operational Planning Process;
- Legislative review for efficacy and relevance;
- Industry liaison and education.

## **ANTICIPATED OUTCOMES**

The principal outcome of this compliance program is to support sustainable management of the Northern Zone Rocklobster fishery by:

- Increased voluntary compliance;
- Continued development of effective deterrence strategies;
- Accurate intelligence and risk predictions;
- Successful enforcement outcomes for repeat or serious offences;
- Development of efficient and cost effective compliance strategies;
- Continued development of stakeholder engagement programs;
- Reduced incidence of reported illegal activity
- Reduced incidence of documentation errors and inconsistencies
- Increased integrity in fishery management systems and/or quota systems
- Increased positive interactions & collaboration with stakeholders

## **PROGRAM DELIVERY**

The Fisheries & Aquaculture Operations Group comprises three Regional Operations teams, an Offshore Patrol Operations team and an Intelligence & Strategic Support team.

The compliance program dedicated to the Northern Zone Rocklobster fishery is primarily delivered by Fisheries Officers from the West and Central Regions, at-sea by Fisheries Patrol Vessel Southern Ranger and with support, as required, by officers from the Intelligence & Strategic Support team.

## **PROGRAM STRATEGIES AND SUPPORTING ACTIONS & INITIATIVES**

The compliance program is tailored to the Northern Zone Rocklobster fishery and uses a number of initiatives and actions that fall under the three core strategies of Education & Awareness, Effective Deterrence and Appropriate Enforcement. These initiatives and actions are outlined in the Northern Zone Rocklobster fishery compliance plan which has been developed in consultation with the sector.

## **PROGRAM EFFORT ALLOCATION**

The level of effort required to deliver the compliance program in accordance with the dedicated plan is reviewed annually taking into account;

- previous effort required to deliver established programs developed over last 10 years
- the identified risks to the fishery and any associated changes
- shifts or changes to the fishery management
- changes to fishing practices
- additional pressures or influences on fishers or the fishery
- intelligence holdings
- trends or change behaviours that required monitoring and/or investigation
- cost effectiveness and identified efficiencies

- any other relevant information required to deliver an effective compliance program to monitor and enforce the rules and regulations for each fishery

PIRSA has continually reviewed the Northern Zone Rocklobster fishery compliance program, gaining efficiencies through intelligence driven and targeted operations, and re-directing compliance effort where necessary to address current and emerging issues and risks.

The table below includes an abbreviated suite of the core activities and initiatives used to manage the risks. The table also includes days allocated to reflect the anticipated split of effort and associated costs.

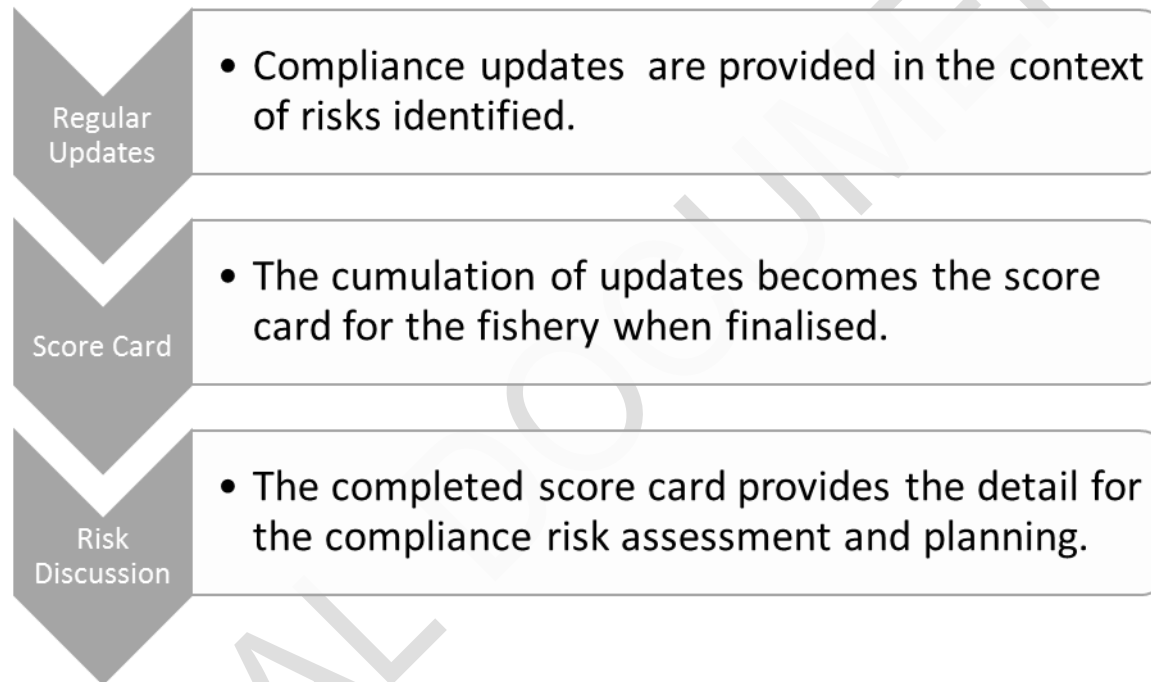
<b>Strategy/Activities</b>	<b>Days</b>	<b>FTE</b>	<b>Cost (\$)</b>
<b>Education Awareness</b> <ul style="list-style-type: none"> <li>• Conduct pre-season education meetings and participate in industry days.</li> <li>• Provide electronic distribution of educational material to fishers and licence holders at the start of the season.</li> <li>• Ensure all interested parties understand their respective obligations and the compliance focus for the coming season.</li> <li>• Develop Industry communication &amp; relationship programs to facilitate discussion of topics such as compliance inspection outcomes and issues impacting the Northern Zone Rocklobster fishery</li> <li>• Ongoing one on one education during inspections</li> </ul>	70	0.35	\$85,966
<b>Effective Deterrence</b> <ul style="list-style-type: none"> <li>• Ensure all aspects of the Quota Management System are monitored such as prior reporting and chain of custody requirements in catch disposal records (CDR) including auditing.</li> <li>• Ensure all aspects of commercial fishing activities are monitored such as inspections of catch at sea, when landed, in transit and at change of ownership in fish processing premises.</li> <li>• Conduct intelligence driven operations and use appropriate enforcement action</li> <li>• Respond to reported incidents/issues</li> <li>• Communication Strategy</li> </ul>	380	1.90	\$466,669
<b>Enforcement</b> <ul style="list-style-type: none"> <li>• Investigate reports of non-compliance and where appropriate take action</li> <li>• Issue expiations, cautions and court enforced actions.</li> </ul>	120	.60	\$147,369
<b>TOTALS</b>	<b>570</b>	<b>2.85</b>	<b>\$700,005</b>

Fisheries Patrol Vessel (FPV) Southern Ranger	Days	Cost
<p>The offshore patrol vessel FPV Southern Ranger is integral to the overall compliance strategy. It is the only State owned vessel with capability to operate in both inshore and offshore waters and in a broad range of sea and weather conditions.</p> <p>FPV Southern Ranger is important for compliance in the Northern Zone Rocklobster fishery as it provides an effective deterrence in areas traditionally fished by Rock lobster fishers. The crew of FPV Southern Ranger will conduct targeted and opportune inspections to ensure Northern Zone Rock Lobster fishers are accurately recording daily catch information into their Catch and Disposal records at the completion of each days fishing. The crew will also be conducting regular gear inspection for compliance with SLED requirements and regular catch inspection.</p>	5	\$36,414

**Please Note;** to comply with Work Health & Safety obligations and evidentiary requirements, operational activities are generally required to be undertaken by a minimum of two (2) officers at any time.

All values have been rounded to the nearest dollar figure

## NORTHERN ZONE ROCK LOBSTER FISHERY – 16/17 RISK ASSESSMENT & COMPLIANCE PROGRAM



### NORTHERN ZONE ROCK LOBSTER FISHERY RISKS

<b>TAKE UNDERSIZE ROCK LOBSTER</b>	Likelihood: Occasional	Consequence: Moderate	Risk Rating	<b>Moderate</b>
------------------------------------	------------------------	-----------------------	-------------	-----------------

Risk Attribute	<ul style="list-style-type: none"> <li>• Fail to accurately measure Rock Lobster</li> <li>• Taking just undersize Rock Lobster</li> <li>• Incorrect measuring technique used</li> <li>• Fish processor failing to check for undersize Rock Lobster</li> </ul>
Legislative & Regulatory Framework	<ul style="list-style-type: none"> <li>• Fisheries Management (General) Regulations</li> </ul>
Implication	<ul style="list-style-type: none"> <li>• Taking undersize Rock Lobster in the Northern Zone in a sustained manner can threaten the biomass of spawning stock which threatens sustainability</li> <li>• PIRSA compliance presence is required to prevent the potential for sustained take of undersize NZRL.</li> </ul>
Control Measure	<ul style="list-style-type: none"> <li>• Pre-season briefings</li> <li>• Ongoing liaison with NZRL Executive regarding take of undersize Rock Lobster</li> <li>• Common measuring device (used by both Fisheries Officers &amp; fishers)</li> <li>• Fishery induction packages for new entrants</li> <li>• Checks at sea, landing, in transit and at fish processors</li> <li>• Minimum legislated sizes for Rock Lobster</li> <li>• Escape gaps in Rock Lobster pots</li> </ul>

**NORTHERN ZONE ROCK LOBSTER FISHERY RISKS**

<b>QUOTA MANAGEMENT SYSTEM INTEGRITY</b>	Likelihood: Occasional	Consequence: Severe	Risk Rating	<b>High</b>
--	------------------------	---------------------	-------------	-------------

Risk Attribute	<ul style="list-style-type: none"> <li>• Fail to prior report</li> <li>• CDR – failure to complete, errors or omissions</li> <li>• Fish bins not securely sealed</li> <li>• Collusion with a fish processor</li> <li>• Undeclared mortalities</li> <li>• Rock Lobster taken from one zone but declared as taken from the other</li> </ul>
Legislative Framework	<ul style="list-style-type: none"> <li>• Fisheries Management Act 2007</li> </ul>
Implication	<ul style="list-style-type: none"> <li>• No prior report reduces the ability of Fisheries Officers to check the catch and accuracy of CDRs</li> <li>• Fish Bins that cannot be sealed allow Rock Lobster to be removed from the catch after landing</li> <li>• Inaccurate knowledge of what is taken from either zone can affect scientific modelling</li> <li>• Collusion allows inaccurate weights to be deducted from quota which can affect scientific modelling</li> <li>• PIRSA compliance presence is required to ensure weaknesses in quota system not systematically exploited</li> </ul>
Control Measure	<ul style="list-style-type: none"> <li>• Pre-season briefings</li> <li>• Ongoing liaison with NZRL Executive regarding relevant issues impacting NZRL fishery</li> <li>• Compliance communication to NZRL fishers with intent to educate fishers on rules and requirements</li> <li>• Inspections at sea, at landing, in transit and at fish processors</li> <li>• Requirement to prior report, seal bins, complete CDR's and operate VMS</li> <li>• Audits to include but not limited to VMS, CDR, RLSTF &amp; prior reports</li> <li>• Compliance input to NZRL Policy review</li> </ul>

**NORTHERN ZONE ROCK LOBSTER FISHERY RISKS**

<b>QUOTA EVASION</b>	Likelihood: Occasional	Consequence: Severe	Risk Rating	<b>High</b>
----------------------	------------------------	---------------------	-------------	-------------

Risk Attribute	<ul style="list-style-type: none"> <li>• Sale or purchase of Rock Lobster without a CDR</li> <li>• Not delivering all catch directly to a fish processor</li> <li>• CDR – failure to complete, falsifying CDR details, errors or omissions</li> <li>• Fishing but not Prior Reporting</li> <li>• Bins not sealed or sealed incorrectly (provides opportunity to remove Rock Lobster)</li> <li>• Collusion between fisher and fish processor</li> <li>• Exceeding take home allowance</li> <li>• Undeclared mortalities</li> <li>• Illegal at sea transfers</li> </ul>
Legislative Framework	<ul style="list-style-type: none"> <li>• Fisheries Management Act 2007, Fisheries Management (General) Regulations, Licence conditions</li> </ul>
Implication	<ul style="list-style-type: none"> <li>• Commercial advantage</li> <li>• Inaccurate data collected for scientific modelling for TACC process which can threaten sustainability</li> <li>• The potential exists for a fisher to under estimate the catch and the colluding fish processor to report the estimated weight</li> <li>• Systemic quota evasion has the potential to threaten sustainability</li> <li>• PIRSA compliance presence is required to deter opportunities to evade quota and to ensure equitable access for commercial fishers</li> </ul>
Control Measure	<ul style="list-style-type: none"> <li>• Pre-season briefings</li> <li>• Inspections at sea, at landing, in transit and at fish processors</li> <li>• Fisheries Officer covert surveillance of catch unload</li> <li>• Requirement to prior report, seal bins, complete CDR's and operate VMS</li> <li>• Audits to include but not limited to VMS, CDR, RLSTF &amp; prior reports</li> </ul>

**NORTHERN ZONE ROCK LOBSTER FISHERY RISKS**

<b>TAKE FEMALE ROCK LOBSTER CARRYING EGGS</b>	Likelihood: Possible	Consequence: Severe	Risk Rating	<b>Moderate</b>
---	----------------------	---------------------	-------------	-----------------

Risk Attribute	<ul style="list-style-type: none"> <li>• Taking female Northern Zone Rock Lobster carrying eggs</li> </ul>
Legislative Framework	<ul style="list-style-type: none"> <li>• Fisheries Management Act 2007</li> </ul>
Implication	<ul style="list-style-type: none"> <li>• Taking Rock Lobster with eggs in the Northern Zone in a sustained manner can threaten the biomass of spawning stock which threatens sustainability</li> <li>• PIRSA compliance required to deter fishers taking female Rock Lobster carrying eggs</li> </ul>
Control Measure	<ul style="list-style-type: none"> <li>• Pre-season education</li> <li>• Fishery Induction package for new entrants</li> <li>• Inspections at sea, at landing, in transit and at fish processors</li> </ul>

FINAL DOCUMENT



**NORTHERN ZONE ROCK LOBSTER FISHERY RISKS**

<b>OPERATE ILLEGAL ROCK LOBSTER POTS</b>	Likelihood: Occasional	Consequence: Moderate	Risk Rating	<b>Moderate</b>
--	------------------------	-----------------------	-------------	-----------------

Risk Attribute	<ul style="list-style-type: none"> <li>• Unlawful escape gaps</li> <li>• Use more than permitted number of Rock Lobster pots</li> <li>• Use unmarked Rock Lobster pots</li> <li>• Non-compliant Sea Lion Exclusion Device (SLED)</li> </ul>
Legislative Framework	<ul style="list-style-type: none"> <li>• Fisheries Management Act 2007, Fisheries Management (General) Regulations, Licence conditions</li> </ul>
Implication	<ul style="list-style-type: none"> <li>• Unlawful escape gaps in pots increases the retention and predation of undersize Rock Lobster</li> <li>• Using more Rock Lobster pots than entitled to changes the equity between fishers (commercial advantage), changes catch per pot lift (CPUE) and has the potential to impact scientific modelling for TACC levels</li> <li>• Using unmarked Rock Lobster pots impedes Fisheries Officer ability to identify the number of pots in use by a licence</li> <li>• PIRSA compliance presence is required to ensure fishers compete equitably</li> <li>• Potential for interactions with TEPS (Sea Lions)</li> <li>• TEPS related information highly sensitive – potential risk to reputation, social, political implications</li> </ul>
Control Measure	<ul style="list-style-type: none"> <li>• Pre-season pot inspections</li> <li>• Inspections at sea, at landing, in transit and at fish processors</li> <li>• Fisheries Officers presence (when pots pulled by fisher)</li> </ul>

## NORTHERN ZONE ROCK LOBSTER FISHERY RISKS

<b>OTHER</b>	Compliance risks identified within the fishery that may occur which will be addressed as they are detected
--------------	--

### Others Risks:

- Take protected species other than females with eggs
- Taking non-permitted species (species not listed on Schedule)
- Use device not registered
- Interfering with lawful fishing activity
- Master or vessel not endorsed on licence
- Inconsistent understanding of legislated and regulatory obligations by commercial operators
- Closure of lines of communication between PIRSA / Industry
- Failure to lodge SARDI catch and effort returns
- Inaccurate or misleading reporting of catch location and volume on SARDI returns
- Assist / provide services to other agencies (i.e. SAPOL, threats at sea amongst Industry)

### When Marine Scale fishing:

- Exceed relief day provision
- Take undersize
- Take over limit
- Fish closed areas / season
- Fail to attend gear
- Use gear not endorsed on license

		CONSEQUENCES					
		NEGLIGIBLE	MINOR	MODERATE	SEVERE	MAJOR	CATASTROPHIC
		0	1	2	3	4	5
LIKELIHOOD	REMOTE	1					
	RARE	2					
	UNLIKELY	3					
	POSSIBLE	4				Take Female with Eggs	
	OCCASIONAL	5			Take Undersize Operate Illegal Pots	QMS Integrity Quota Evasion	
	LIKELY	6					

LIKELIHOOD DEFINITIONS		CONSEQUENCE DEFINITION	
LIKELY	It is expected to occur	CATASTROPHIC	Local extinctions are imminent / immediate
OCCASIONAL	May occur	MAJOR	Likely to cause local extinctions, if continued in longer term
POSSIBLE	Some evidence to suggest this is possible here	SEVERE	Affecting recruitment levels of stocks / or their capacity to increase
UNLIKELY	Uncommon, but has been known to occur elsewhere	MODERATE	Full exploitation rate, but long term recruitment / dynamics not adversely impacted
RARE	May occur in exceptional circumstances	MINOR	Possibly detectable, but minimal impact on population size and none on dynamics
REMOTE	Never heard of but not impossible	NEGLIGIBLE	Insignificant impacts to population. Unlikely to be measurable against background variability for this population

**RISK RATING**

Negligible	Low	Moderate	High	Extreme
------------	-----	----------	------	---------

## PROGRAM: STOCK ASSESSMENT AND MONITORING

### SCHEDULE 1 - PROJECT SCOPE

#### 1. PROJECT DETAIL

**1.1 Title** SOUTH AUSTRALIAN ROCK LOBSTER FISHERY

#### 1.2 Client Contact Details

Name: PIRSA FISHERIES AND AQUACULTURE  
Address: GPO Box 1625, Adelaide, SA 5001  
Attention: Sean Sloan  
Email: [Sean.Sloan@sa.gov.au](mailto:Sean.Sloan@sa.gov.au)  
Telephone: 8429 0111  
Facsimile: 8226 0434

#### 1.3 SARDI Contact Details

Name: Prof Gavin Begg  
Position: Research Chief  
Address: SARDI Aquatic Sciences  
2 Hamra Ave, West Beach, SA 5024  
Email: [gavin.begg@sa.gov.au](mailto:gavin.begg@sa.gov.au)  
Telephone: 8207 5401  
Facsimile: 8207 5406

#### 1.4 Subcontractor/Collaborator

Not Applicable

#### 1.5 Timeframe

Commencement Date: 1 July 2016  
Completion Date: 30 June 2019

#### 1.6 Summary

This scope of work will provide PIRSA Fisheries and Aquaculture with the scientific information required to underpin the ecologically sustainable management of the southern rock lobster fishery in South Australia. The core stock assessment and monitoring program for rock lobster is comprised of three key components:

- Project 1 – Annual report on performance indicators;
- Project 2 – Puerulus monitoring;
- Project 3 – Fishery Independent Monitoring Survey (FIMS) – Southern Zone only

## **2. PROJECT DESCRIPTION**

### **2.1 BACKGROUND**

Southern rock lobster (*Jasus edwardsii*) are distributed around southern mainland Australia, Tasmania and New Zealand. In Australia, the northerly limits of distribution are Geraldton in Western Australia and Coffs Harbour in New South Wales but the bulk of the population can be found in South Australia, Victoria, and Tasmania where they occur in depths from 1 to 200 m. In South Australia, the fishery is divided into two zones, Northern and Southern. Lobsters caught using pots that are set overnight and hauled at first light with the majority of commercial catch exported live, mainly to China.

### **2.2 NEED**

Annual stock assessment and status reports are required as part of the ongoing management of the South Australian southern rock lobster resource. The broad statutory framework for the sustainable management of this resource is provided by the *Fisheries Management Act 2007* with specific policies, objectives and strategies to be employed for the sustainable management of the Northern and Southern zones described in the Management Plans for both fisheries (PIRSA 2013, 2014).

### **2.3 OBJECTIVES**

#### 2.3.1 Annual report on performance indicators

To undertake monitoring required to underpin the annual stock assessment and status reports for the Northern and Southern Zone fisheries. The annual stock assessments will report against the key biological performance indicators identified in the Management Plan for both fisheries.

#### 2.3.2 Puerulus monitoring

To monitor annual levels of puerulus settlement and to link settlement patterns to pre-recruit abundance and model estimates of recruitment as a potential indicator of future fishery performance.

#### 2.3.3 Fishery Independent Monitoring Survey (FIMS)

To undertake a fishery independent monitoring survey in the Southern Zone. Data to be incorporated into annual stock assessments to provide information independent of the commercial fishery and to support finer scale assessment. The objective will be to provide a measure of relative abundance not altered by changing fishing patterns and which samples the whole population.

## **2.4 METHODS**

### **2.4.1 Annual report on performance indicators**

#### **Collection of fisheries statistics**

- Manage a comprehensive fishing logbook program.
- Collate fishing logbook returns and provide a secure and commercial-in-confidence service.
- Validate returns (consultation with fishers to correct errors).
- Entry and storage of data, providing database administration, maintenance and development.
- Provide mid-season and annual reports (as required by the PIRSA Fisheries and Aquaculture Policy Group) for the northern and southern zone rock lobster fisheries.
- Update relevant chapter in status report for SA fisheries
- Promote and manage a voluntary catch sampling program.

### **2.4.2 Puerulus monitoring**

#### **Service Collectors**

- Provide regular monthly servicing of collectors at various sites located across the range of the fishery.
- Repair collectors and collect biological samples.

### **2.4.3 Fishery Independent Monitoring Survey (FIMS)**

- Surveys be undertaken at the beginning (September) and middle (January) of each fishing season along predetermined transects within the fishery.

## **3 DELIVERABLES**

### **3.1 Service Provided**

- Derive indices of catch rate, pre-recruit index, length frequency, biomass, recruitment and egg production. The latter are obtained from stock assessment models.
- Develop and apply stock assessment models for alternative harvest strategy evaluation as required.
- Interpret the performance indicators and report on status of fisheries.

As well as reporting on the performance indicators for the fishery, the project also entails the following deliverables:

- Maintaining the historical data
- Developing the SARL the database
- Improving quality of catch and effort logbook data
- Maintaining current data collection systems
- Collecting, editing, entering and validating catch and effort data, catch sampling data and gear and vessel data
- Monitoring the physical environment
- Maintaining temperature loggers
- Liaising with fishers
- Understanding the broad range of factors effecting the industry that are not necessarily quantifiable through the collection of logbook or other data, but is important to the understanding of the fishery dynamics (e.g. high grading).
- Providing feedback on the voluntary data collection
- Identifying areas of weakness or uncertainty in the assessment of the stocks and developing means by which uncertainty can be minimised and quantified.
- Developing project proposals to create research opportunities in regard to aspects of the lobster fishery and/or biology that are of strategic interest, including projects of interest beyond SA.
- Contributing to the development and/or update of a Strategic Research Plan for the SA lobster fisheries
- Advising the Fisheries Management Committee on a range of issues, for example, the need for changes in levels of total catch, effort, size limits, and advice regarding the extent of ecological interactions and their minimisation.
- Provide outputs for the development of alternative harvest strategies

### **3.2 Outcomes**

- Review and publish annual Status and Stock Assessment Reports for both the Northern and Southern zone rock lobster fisheries.
- Supervision of project, management of deliverables and milestones.
- Provision of verbal and written advice to PIRSA Fisheries and Aquaculture as requested. Provision of advice during review of harvest strategies during management plan reviews when required.
- In relation to the FIMS in the Southern Zone fishery, a briefing report detailing explicit catch from each survey pot to be provided after both September and January surveys.

### **3.3 Outputs and Extension**

- Status and Stock Assessment Reports for both the Northern and Southern zone rock lobster fisheries will be provided to PIRSA Fisheries and Aquaculture and all rock lobster licence holders. Reports will also be posted on the PIRSA website.
- Scientific manuscripts will be published in peer-reviewed international journals.

#### 4. FUNDING ARRANGEMENTS

##### 4.1 PROJECT COSTING POLICY

##### 4.2 PROJECT COST

PROJECT COST	TOTAL FUNDED	TOTAL IN KIND	TOTAL PROJECT COST
STOCK ASSESSMENT	\$3,018,140	\$484,842	\$3,502,982
SZ FIMS	\$342,295	\$11,825	\$354,120
<b>SUBTOTAL</b>	<b>\$3,360,435</b>	<b>\$496,667</b>	<b>\$3,857,102</b>
<b>GST</b>	<b>NO GST</b>	<b>NO GST</b>	<b>NO GST</b>
<b>TOTAL</b>	<b>\$3,360,435</b>	<b>\$496,667</b>	<b>\$3,857,102</b>

FUNDED PROJECT COSTS	2016/17	2017/18	2018/19	TOTAL FUNDED COST
STOCK ASSESSMENT	\$980,838	\$1,006,634	\$1,030,668	\$3,018,140
SZ FIMS	\$112,390	\$114,083	\$115,822	\$342,295
<b>SUBTOTAL</b>	<b>\$1,093,228</b>	<b>\$1,120,717</b>	<b>\$1,146,490</b>	<b>\$3,360,435</b>
<b>GST</b>	<b>NO GST</b>	<b>NO GST</b>	<b>NO GST</b>	<b>NO GST</b>
<b>TOTAL</b>	<b>\$1,093,228</b>	<b>\$1,120,717</b>	<b>\$1,146,490</b>	<b>\$3,360,435</b>

##### 4.3 MILESTONE AND PAYMENT SCHEDULE

Date	Milestone	Payment (\$) Ex GST
31 October 2016	Status report for Southern Zone 2015/16 season Status report for Northern Zone 2015/16 season	
31 December 2016	First Half Payment 2016/17 SLA	\$546,614
31 May 2017	Second Half Payment 2016/17 SLA	\$546,614
30 June 2017	Stock Assessment report for Southern Zone 2015/16 season Stock Assessment report for Northern Zone 2015/16 season	
31 October 2017	Status report for Southern Zone 2016/17 season Status report for Northern Zone 2016/17 season	
31 December 2017	First Half Payment 2017/18 SLA	\$560,358
31 May 2017	Second Half Payment 2017/18 SLA	\$560,358
30 June 2018	Stock Assessment report for Southern Zone 2016/17 season Stock Assessment report for Northern Zone 2016/17 season	
31 October 2018	Status report for Southern Zone 2017/18 season Status report for Northern Zone 2017/18 season	
31 December 2018	First Half Payment 2018/19 SLA	\$573,245
31 May 2018	Second Half Payment 2018/19 SLA	\$573,245
30 June 2019	Stock Assessment report for Southern Zone 2017/18 season Stock Assessment report for Northern Zone 2017/18 season	
<b>TOTAL FUNDED</b>		<b>\$3,360,435</b>



## 5. PROJECT STAFF

Staff	FTE 2016/17	FTE 2017/18	FTE 2018/19
Principal Scientist	1.30	1.30	1.30
Research Scientist	0.60	0.60	0.60
Research Officers	2.30	2.30	2.30
<b>TOTAL</b>	<b>4.20</b>	<b>4.20</b>	<b>4.20</b>

## SCHEDULE 2 - RESEARCH PROJECT COSTING

### 1. PROJECT COST SUMMARY

Cost	Detail	2016/17 Total (\$) Ex GST	2017/18 Total (\$) Ex GST	2018/19 Total (\$) Ex GST
Salaries (FTE)		4.2	4.2	4.2
Salaries (\$)		543,211	560,804	576,406
<b>Operating</b>				
Logbook program		79,974	82,368	84,834
Payment to industry for surveys		79,560	80,750	82,000
Fieldwork		104,344	104,344	104,344
Laboratory				
Travel		4,229	4,229	4,229
Office & communication		10,713	10,713	10,713
Capital equipment				
SARDI overhead		271,198	277,508	283,965
SARDI inkind		161,486	165,522	169,659
<b>Total Cost</b>		<b>1,254,715</b>	<b>1,286,238</b>	<b>1,316,150</b>
<b>Revenue – PRICE</b>				
Licence holders	82.5%	1,044,034	1,070,284	1,094,899
PIRSA F&A	4.5%	49,195	50,432	51,592
<b>Total Revenue</b>		<b>1,093,229</b>	<b>1,120,716</b>	<b>1,146,491</b>
<b>SARDI Investment</b>	13%	<b>161,486</b>	<b>165,522</b>	<b>169,659</b>

#### Breakdown explanations:

##### *Logbook Program*

Entry, validation, management and reporting of data

##### *Payment to industry for surveys*

Direct costs of using industry vessels and staff to undertake surveys

##### *Fieldwork*

Fieldwork costs including vessels, travel and OHS requirements

##### *Laboratory*

Costs for processing samples

##### *Travel*

Costs for attending meetings with industry, PIRSA F&A and stakeholders

##### *Office and communication*

Stationery, communications and publications

##### *Capital equipment*