



Government of South Australia

Primary Industries and Regions SA

PIRSA FISHERIES & AQUACULTURE

COST RECOVERY PROGRAM

2015-16

ROCK LOBSTER FISHERY

NORTHERN ZONE

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SUMMARY TABLE ROCK LOBSTER FISHERY - NORTHERN ZONE

2014-15	PROGRAM AREA	2015-16	COMMENTS	DAYS	FTE
Research Costs					
305,567	Stock Assessment and Monitoring	272,163	One year program, as per SARDI Project Scope		
8,477	Economic Assessment	8,732	Contracted services		
2,640	TEPS	2,452	Contribution towards Threatened and Endangered Species		
PIRSA Related Costs					
80,714	Policy and management	80,478	Same level of service as previous year	90.00	0.45
4,749	Legislation	4,881	Same level of service as previous year	5.00	0.03
41,262	Licensing	38,455	Same level of service as previous year	55.00	0.28
14,442	Directorate	14,182	Same level of service as previous year	16.00	0.08
676,843	Compliance	688,304	Same level of service as previous year	570.00	2.85
35,557	Vessel	35,805	Same level of service as previous year	5.00	
61,200	VMS	56,700	Decreased number of licences	63.00	0.32
31,440	Quota Monitoring	29,962	Same level of service as previous year	50.00	0.25
Other Costs					
39,018	FRDC	43,428	Funding based on 0.25% of rolling three year average GVP		
162,500	Co-Management Services	208,953	Co-management services requested and approved for 2015/16		
55,000	Additional Research	35,000	Additional Research (pot sampling)		
\$1,519,409	TOTAL	\$1,519,495			

Licence Fees	2015-16
Base Fee	3,275
Quota Unit Fee	21.10
Giant Crab Unit Fee	20.95
By-catch fee	11.75

Licence Fees	2014-15
<i>Base Fee</i>	<i>3,743</i>
<i>Quota Unit Fee</i>	<i>20.30</i>
<i>Giant Crab Unit Fee</i>	<i>21.40</i>
<i>By-catch fee</i>	<i>12.60</i>

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PROGRAM DAILY CHARGE OUT RATE

DAILY RATE (\$)	Compliance	Vessel	VMS	Quota	Directorate	Legislation	Licensing	Policy
Total Employee Expenses	593	2,222	390	365	565	604	422	549
Total Operating Expenses	318	2,189	388	39	131	181	82	154
Depreciation and Capital Costs	68	2,324	-	-	-	-	-	-
Total Other Expenses*	229	426	144	195	190	191	195	191
TOTAL DAILY RATE	1,208	7,161	923	599	886	976	699	894

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

* Other expenses includes ICT, finance, human resources, WHS, accommodation, insurance and other costs incurred corporately in providing services to divisions, apportioned across PIRSA using a range of cost drivers such as number of logons, headcount, volume data and other workload indicators, in accordance with PIRSA's cost recovery policy. It excludes the costs of servicing government and costs too far removed from the activity such as Ministerial Offices, Office of the Chief Executive, Strategic Communications and Engagement and the PIRSA Policy Unit, for example.

INTRODUCTION

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

MANAGEMENT OBJECTIVES 2015/16

Long term objectives	Outcomes 2013/14 to 2015/16	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 undertake harvest strategy</p> <p>Maximise catches within ecologically sustainable limits</p> <p>Consideration of spatial/temporal management of stocks</p> <p>Maintain integrity in quota system</p>	<p>Consider spatial/temporal management of stocks including outcomes of spatial/temporal management research project</p>	<p>Implement compliance program, informed by risk assessment</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>Provide scientific advice in development of spatial/temporal management arrangements Conduct puerulus monitoring program</p>	<p>Provide ongoing support for licensing, quota and transfer queries</p>
<p>Minimise impacts on the ecosystem</p>	<p>Address recommendations from DotE under EPBC Act accreditation</p>	<p>Address DotE recommendations</p>		<p>Monitor TEPS interactions through logbooks</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>

PROGRAM: FISHERIES POLICY AND MANAGEMENT

PROGRAM MANAGER

Keith Rowling, Manager Fisheries Policy and Management Unit
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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.

Strategy/Activities	Days	FTE	Cost (\$)
Policy and Management:	90	0.45	80,478
TOTALS	90	0.45	80,478

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

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PROGRAM: LEGAL SERVICES

PROGRAM MANAGER

Lambertus Lopez, Manager, Legal and Legislative Programs
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PROGRAM SUMMARY

The Legal and Legislative Unit of PIRSA Fisheries & Aquaculture 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 abalone 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 including the implementation of statutory and administrative changes to government, 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 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	4,881
TOTALS	5	0.03	4,881

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

PROGRAM: LEASING AND LICENSING

PROGRAM MANAGER

Erin Conlon, Manager, Leasing & Licensing
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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.

Strategy/Activities	Days	FTE	Cost (\$)
Leasing and Licensing	55	0.28	38,455
Quota Monitoring	50	0.25	29,962
TOTALS	105	0.53	68,417

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

PROGRAM: DIRECTORATE

PROGRAM MANAGER

Chiara Ciui, Business Manager
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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' service level agreements.
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. Management of industry funds and services.
9. Plan, coordinate and facilitate the cost recovery process with industry associations and program providers in a timely and efficient manner.
10. Ongoing review, development and documentation of the cost recovery model, framework, processes and roles.
11. Meet agreed timeframes on management and administration of external contractual services.
12. 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.

Strategy/Activities	Days	FTE	Cost (\$)
Directorate	16	0.08	14,182
TOTALS	16	0.08	14,182

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

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NORTHERN ZONE ROCKLOBSTER FISHERY COMPLIANCE PROGRAM 2015/2016

PROGRAM MANAGER

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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.

Strategy/Activities	Days	FTE	Cost (\$)
Education Awareness <ul style="list-style-type: none"> • Conduct pre-season education meetings and participate in industry days. • Provide electronic distribution of educational material to fishers and licence holders at the start of the season. • Ensure all interested parties understand their respective obligations and the compliance focus for the coming season. • Develop Industry communication & relationship programs to facilitate discussion of topics such as compliance inspection outcomes and issues impacting the Northern Zone Rocklobster fishery • Ongoing one on one education during inspections 	71	0.35	85,736
Effective Deterrence <ul style="list-style-type: none"> • 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. • Ensure all aspects of commercial fishing activities are monitored such as inspections of catch at sea, when 	406	2.00	490,265

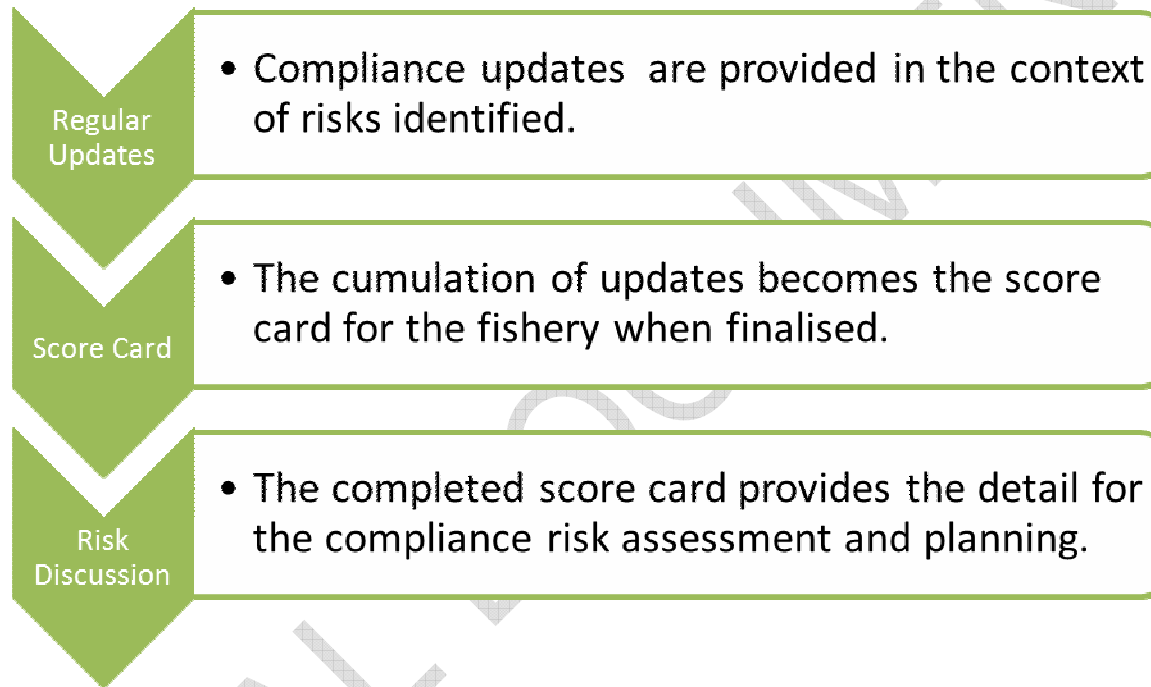
<ul style="list-style-type: none"> landed, in transit and at change of ownership in fish processing premises. Conduct intelligence driven operations and use appropriate enforcement action Respond to reported incidents/issues Communication Strategy 			
Enforcement <ul style="list-style-type: none"> Investigate reports of non-compliance and where appropriate take action Issue expiations, cautions and court enforced actions. 	93	.50	112,303
TOTALS	570	2.85	688,304

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	35,805

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 – 15/16 RISK ASSESSMENT & COMPLIANCE PROGRAM



NORTHERN ZONE ROCK LOBSTER FISHERY RISKS

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

NORTHERN ZONE ROCK LOBSTER FISHERY RISKS

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

NORTHERN ZONE ROCK LOBSTER FISHERY RISKS

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

NORTHERN ZONE ROCK LOBSTER FISHERY RISKS

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

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NORTHERN ZONE ROCK LOBSTER FISHERY RISKS

OPERATE ILLEGAL ROCK LOBSTER POTS	Likelihood: Occasional	Consequence: Moderate	Risk Rating	Moderate
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Risk Attribute	<ul style="list-style-type: none"> Unlawful escape gaps Use more than permitted number of Rock Lobster pots Use unmarked Rock Lobster pots Non-compliant Sea Lion Exclusion Device (SLED)
Legislative Framework	<ul style="list-style-type: none"> Fisheries Management Act 2007, Fisheries Management (General) Regulations, Licence conditions
Implication	<ul style="list-style-type: none"> Unlawful escape gaps in pots increases the retention and predation of undersize Rock Lobster 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 Using unmarked Rock Lobster pots impedes Fisheries Officer ability to identify the number of pots in use by a licence PIRSA compliance presence is required to ensure fishers compete equitably Potential for interactions with TEPS (Sea Lions) TEPS related information highly sensitive – potential risk to reputation, social, political implications
Control Measure	<ul style="list-style-type: none"> Pre-season pot inspections Inspections at sea, at landing, in transit and at fish processors Fisheries Officers presence (when pots pulled by fisher)

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NORTHERN ZONE ROCK LOBSTER FISHERY RISKS

OTHER

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 (ie 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

NORTHERN ZONE ROCK LOBSTER FISHERY RISKS

OTHER Compliance risks identified within the fishery that may occur which will be addressed as they are detected

		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 (12)		
	OCCASIONAL	5		Illegal Rock lobster Pots (10) Take Undersize (10)	Quota Evasion (15) Quota Integrity (15)		
	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
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PROGRAM: STOCK ASSESSMENT AND MONITORING

SCHEDULE 1 - PROJECT SCOPE

1. PROJECT DETAIL

1.1 Title **ROCK LOBSTER FISHERY STOCK ASSESSMENT AND MONITORING**

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
Telephone: 8226 2318
Facsimile: 8226 0434

1.3 Principal Investigator

Name: Dr Adrian Linnane
Position: Offshore Crustaceans Subprogram Leader
Address: SARDI Aquatic Sciences
 2 Hamra Ave, West Beach, SA 5024
Email: Adrian.Linnane@sa.gov.au
Telephone: 82075492
Facsimile: 8207 5481

1.4 Timeframe

Commencement Date: 1 July 2015
Completion Date: 30 June 2016

1.5 Summary

The core stock assessment and monitoring program for rock lobster is comprised of three 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

Project 1 - Annual report on performance indicators

Objective

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.

Project 2 – Puerulus monitoring

Objective

To link annual patterns of puerulus settlement to patterns of pre-recruit abundance and estimates of recruitment as an indicator of future fishery performance.

Project 3 – Fishery Independent Monitoring Survey (FIMS)

Objective

To undertake a fishery independent monitoring survey in the SZRLF. Data to be incorporated into annual stock assessments to provide information independent of the commercial fishery and to support finer scale assessment.

3. DELIVERABLES

3.1.1 Project 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

Collection of biological information

- Promote and manage a voluntary catch sampling program.
- Ensure that data are collated at the spatial scale detailed in the Management Plan for the fishery

Analysis and interpretation

- 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.
- Analyse data at the fine spatial scale as detailed in the Management Plan

Project management and production of Stock Assessment Report

- Review and publish both Status and Stock Assessment Reports for each Zone.
- Supervise project, management of deliverables and milestones.

Reporting to PIRSA

- Produce mid-season, Stock Status and Stock Assessment Reports for each zone for PIRSA Fisheries and Aquaculture
- Provide verbal and written advice to PIRSA

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

- 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
- Liasing 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

3.1.2 Project 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.

Analysis and interpretation

- Interpret results and report on patterns observed.
- Assess utility of monitoring program for future management of the fishery.

3.1.3 Project 3 - Fishery Independent Monitoring Survey (FIMS)

Surveys (Southern Zone only)

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

Analysis and interpretation

- Interpret results and report on patterns observed.
- Assess utility of monitoring survey for future management of the fishery.

Outcomes

- A measure of relative abundance not altered by changing fishing patterns and which samples the whole population
- A measure of length frequency not affected by market demands
- Spatial variations in abundance of both legal and undersized lobsters

Reporting to PIRSA

- Briefing report detailing explicit catch from each survey pot to be provided after both September and January surveys.

4. FUNDING ARRANGEMENTS

4.1 PROJECT COSTING POLICY

This Research Project Scope and Costing has been costed at a Discounted rate.

4.2 PROJECT COST

PROJECT COST	2015/16	SZRL	NZRL
Project 1 – Stock Assessment	838,486	586,940	251,546
Project 2 – Puerulus monitoring	116,486	81,540	34,946
Project 3 – SZ FIMS	106,402	106,402	#n/a
GST	NO GST	NO GST	NO GST
INDUSTRY CONTRIBUTION		\$741,449	\$272,163
PIRSA CONTRIBUTION		\$33,434	\$14,329
TOTAL	1,061,375	\$774,883	\$286,492

4.3 MILESTONE AND PAYMENT SCHEDULE

Date	Milestone	Payment (\$) Ex GST
31 October 2015	Status report for Southern Zone 2014/15 season Status report for Northern Zone 2014/15 season	
31 December 2015	First Half Payment 2015/16 SLA	530,687
31 May 2016	Second Half Payment 2015/16 SLA	530,688
30 June 2016	Stock Assessment report for Southern Zone 2014/15 season Stock Assessment report for Northern Zone 2014/15 season	
SUBTOTAL		1,061,375
GST		NO GST
TOTAL COST		1,061,375

5. PROJECT STAFF

Staff (if identified)	Position	FTE Commitment	Funded/ In-Kind
S. Mayfield	Program Leader	0.05	Funded
A Linnane	Principal Investigator	0.80	Funded
R. McGarvey	Research Scientist	0.45	Funded
P. Hawthorne	Research Scientist	0.90	Funded
J. Feenstra	Research Scientist	0.60	Funded
A. Hogg	Research Scientist	0.40	Funded
TBA (OPS401)	Field Officer	1.00	Funded
TOTAL		4.20	

SCHEDULE 2 - PROJECT COSTING

1. PROJECT COST SUMMARY

Cost	Detail	2015/16 Total (\$) Ex GST
Salaries	4.20fte	519,201
Operating		
Logbook program		79,160
Payment to industry for surveys		76,590
Fieldwork		107,371
Laboratory		0
Travel		8,915
Office & communication		3,000
Capital equipment		0
SARDI overhead		267,138
SARDI inkind		191,314
Total Cost		1,252,689
Revenue – PRICE		
PIRSA F&A	85%	1,061,375
Total Revenue		1,061,375
SARDI Investment	15%	191,314

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

Stationary, communications and publications

Capital equipment

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