

PIRSA

Cost Recovery Implementation Statement for the Gulf St Vincent Prawn Fishery

1 July 2022 to 30 June 2023



Government
of South Australia
Department of Primary
Industries and Regions

Cost Recovery Implementation Statement

Information current as of February 2022
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Introduction

Wild catch commercial fisheries in South Australia are managed in accordance with the Department of Primary Industries and Regions (PIRSA) Cost Recovery Policy. This policy requires commercial fishery licence fees to fund services related to commercial fisheries management costs. PIRSA Fisheries and 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 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.

For further information relating to Cost Recovery Reviews, Policy and Framework, they can be found at https://www.pir.sa.gov.au/fishing/commercial_fishing/pirsa_services_to_fisheries_industry

Consistent with Principle 7 of the PIRSA Cost Recovery Policy, an annual schedule of meetings for stakeholder engagement and support for the cost recovery process in relation to commercial fisheries is outlined below:

Annual schedule of meetings		
Date	Activity	Parties
Sept/Oct	Review long-term objectives for fishery and update if necessary. Identify priority outcomes for upcoming financial year.	PIRSA and industry association
October	Develop policy, research and compliance work programs in readiness for discussions (fisheries managers with industry) in November.	PIRSA
November	Discuss proposed programs with relevant industry associations and reach agreement on programs for the upcoming period. Industry associations to consult with wider industry.	PIRSA and industry association
February	Formal meetings with industry associations to finalise work programs and summarise costs.	PIRSA and industry association
March	Submit proposed licence fees to Minister. Prepare Ministerial Notice briefing to vary and prescribe lease and licence fees for the next financial year.	PIRSA and government agencies
June	Invoices sent for annual licence fees.	PIRSA

* Dates above are indicative only and may vary due to unforeseen circumstances that may arise throughout any year.** If a four-year agreement has been adopted, the Cost Recovery Implementation Agreement (CRIA) will determine that an annual meeting will occur to enable annual stakeholder engagement.

Summary Table

2021-22 (\$)	PROGRAM AREA	2022-23 (\$)	COMMENTS	DAYS	FTE
RESEARCH COSTS					
163,171	Stock Assessment and Monitoring	352,350	Year 4 of 4 year research project scope (modified to include December 2022 FIS and December 2022 and March 2023 advice notes)		
9,479	Economic Assessment	9,764	As per contracted services 2022-23		
457	Other Research	476	Contribution towards Threatened and Endangered Species		
PIRSA RELATED COSTS *					
38,610	Fisheries Management	39,375	Same level of service as previous year	45	0.23
924	Legislation	942	Same level of service as previous year	1	0.01
3,720	Licensing	3,792	Same level of service as previous year	4	0.02
25,020	Compliance	25,520	Same level of service as previous year	20	0.10
2,559	Directorate	2,610	Same level of service as previous year	3	0.02
8,968	FRDC	6,719	Funding based on 0.25% of rolling three year average GVP		
90,000	Co-Management Services	97,000	Co-Management Services requested for 2022-23		
\$342,908	TOTAL	\$538,548			

Licence Fees 2022-23 (\$)	
Licence Fee	\$53,855
<i>Licence Fees 2021-22 (\$)</i>	
<i>Licence Fee</i>	<i>\$34,291</i>

Program Daily Charge Out Rate 2022-23

	DAILY RATE (\$)				
	Compliance	Directorate	Legislation	Licensing	Fisheries Management
Total Employee Expenses	653	636	734	513	634
Total Operating Expenses	325	92	66	129	100
Deprecation and Capital Costs	70	0	0	0	0
Total Other Expenses*	227	141	141	305	141
TOTAL DAILY RATE	1,276	870	942	948	875

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.

Fishery Management Objectives

Long term objectives	Outcomes	Fishery Policy and Management	Compliance	Assessment and Research	Leasing and Licensing
<p>Maintain ecologically sustainable stock levels.</p> <p>Ensure Optimum utilisation and equitable distribution.</p>	<p>Undertake review of the management plan for the fishery in line with the <i>Fisheries Management Act 2007</i>.</p> <p>Coordinate implementation and delivery of results from the March and May research survey.</p> <p>The delivery of management arrangements in the fishery consistent with the requirements of the Management Plan.</p>	<p>Support implementation of new management plan.</p> <p>Manage the fishery in accordance with the Management Plan.</p> <p>Facilitate the setting of fishing nights for the season.</p> <p>Continue implementation and management of existing programs.</p>	<p>Implement compliance program, in accordance with risk assessment.</p> <p>Support implementation of Management Plan.</p> <p>Support and provide advice on the development of new management arrangements, where required.</p> <p>Assist industry with the accurate completion of CDR forms and research logbooks.</p>	<p>Conduct and report on fishery-independent survey.</p> <p>Report on standardised commercial CPUE in Advice Note annually in September.</p> <p>Produce annual stock assessment report to assess fishery performance and inform Harvest Strategy.</p> <p>Support implementation of Management Plan.</p> <p>Provide scientific advice as part of the Harvest Strategy review.</p>	<p>Support implementation of Management Plan.</p> <p>Support development of new management arrangements, where required.</p> <p>Support management of fishery through monitoring TACE and nights fished through the season.</p>
<p>Minimise impacts on the ecosystem.</p>	<p>Maintain DAWE EPBC Act accreditation.</p>	<p>Annual Reporting to maintain DAWE EPBC Act accreditation.</p> <p>Develop bycatch monitoring arrangements.</p>			

Long term objectives	Outcomes	Fishery Policy and Management	Compliance	Assessment and Research	Leasing and Licensing
Cost-effective and participative management of the fishery.	Effective engagement with the industry, in accordance with agreed co-management arrangements.	Maintain regular communication with industry representatives. Be accessible to licence holders. Support the industry led Gulf St Vincent Prawn Fishery Management Advisory Committee.	Provide advice on compliance arrangements or requirements where necessary throughout the licensing year.	Maintain regular communication with industry representatives and licence holders. Support the industry led Gulf St Vincent Prawn Fishery Management Advisory Committee.	Provide ongoing support for licensing queries.

Fisheries Policy and Management Program

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Program summary

The Fisheries Management Unit of PIRSA Fisheries and 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 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 Executive Director, Fisheries and Aquaculture, Minister for Primary Industries and Regional Development and the Chief Executive on matters relating to fisheries.
- Represent the Executive Director, Fisheries and Aquaculture 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 (1999) assessment.

Objectives

To provide day-to-day fisheries management services to for the Gulf St Vincent Prawn Fishery to government and industry, as well as advice and facilitation of fisheries policy and management issues, through the Fisheries Management Program.

Program strategies and supporting actions and 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 and divers.
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

1. Provision of clear instructions for complex legal drafting or compilation of drafts of simple legislative instruments in consultation with the legal manager as necessary for the management of the Gulf St Vincent Prawn Fishery (regulations, closure notices, licence conditions, Ministerial exemptions etc).
2. Facilitate consultation and implementation of the setting of fishing nights in the fishery.
3. Provide advice to the Minister or his/her delegate on setting total allowable commercial catch and/or effort levels for the Gulf St Vincent Prawn Fishery.
4. Prepare policies to support fisheries management.
5. Prepare submissions to enable regular assessment of the Gulf St Vincent Prawn Fishery under the EPBC Act (1999).
6. Prepare annual report to the Australian Government on EPBC Act (1999) requirements for the Gulf St Vincent Prawn fisheries.
7. Prepare regular fisheries status reports.
8. Develop and maintain day-to-day productive working relationships and outcomes through cooperative management and collaboration with stakeholders.
9. 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. Assist with the work of the Gulf St Vincent Prawn Fishery Management Advisory Committee.
3. Develop and implement Management Plan. Management Plans to include Harvest Strategies that protect sustainability of the fishery based on ESD risk assessment processes.
4. Australian Government recommendations met in relation to EPBC assessment.
5. Setting of fishing effort (fishing nights) for Gulf St Vincent Prawn Fishery.

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.

Activity	Days	FTE	Cost (\$)
Fisheries Management	45	0.23	39,375

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

	Deliverables	Due date
1.	Coordinate and facilitate the meeting of licence holders in the fishery to seek advice on the setting of fishing nights for the 2022/23 season of the GSVPF.	October 2022
2.	Participate in inter and intra-departmental meetings and workshops on issues relevant to fisheries management.	Ongoing
3.	Liaise within the Fisheries and Aquaculture Division, with SARDI Aquatic Sciences, other parts of PIRSA on the application, development and implementation of decisions relevant to fisheries management.	Ongoing
4.	Liaise with the Executive Officer of the Saint Vincent Gulf Prawn Boat Owners Association (SVGPBOA) and licence holders in the fishery on the application, development and implementation of decisions relevant to fisheries management.	Ongoing
5.	Attend to general correspondence and enquiries relevant to fisheries.	Ongoing
6.	Provide advice to the Minister in relation to the management of fisheries and Ministerial correspondence.	Ongoing
7.	Communicate on fisheries management issues to key stakeholder groups and the broader community.	Ongoing
8.	Provide advice to and participate in the Gulf Saint Vincent Prawn Fishery Management Advisory Committee (GSVPFMAC).	Ongoing
9.	Provide advice to and participate in the Research Sub-Committee (RSC) of the GSVPFMAC.	Ongoing

Legal Services Program

Program Manager:

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Program summary

PIRSA Fisheries & Aquaculture Directorate provides legal services to the 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 Gulf St Vincent Prawn 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 and initiatives

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.

Activity	Days	FTE	Cost (\$)
Legislation	1.00	0.01	942

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

Anticipated outcomes

	Deliverables	Due date
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 delegations, licences, permits, closures or exemption instruments as required under the <i>Fisheries Management Act 2007</i>	Ongoing

	(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 and working with the Office of Parliamentary Counsel and the Crown Solicitor's Office and other government agencies 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 lawfully implement approved fishery management policy and measures within the limitations of the Act. The service includes working with the Licensing program (part of Leasing and Licensing) and policy program to ensure licence conditions are effective and where necessary to implement efficient administrative systems and finalise forms and instruments that are legally sound.	Ongoing
3.	Problem solve and review policy developments together with the provision and co-ordination of legal advisory services in liaison with the Crown Solicitor's office relating to and the lawful 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.	Ongoing
4.	Coordinate applications for Ministerial exemptions under Part 10 Division 1 and Permits under Part 7 Division 2 of the Act and review draft notices.	Ongoing
5.	Additional legal services to support and review, on an as needs basis, the legislative compliance of decision-making documentation created for the Executive Director, Fisheries and Aquaculture 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 variation of the fishing night system or carry over arrangements of such a system) or new administrative or compliance arrangements (for example, changes to licensing processes, conditions, introduction of closures).	Ongoing
6.	Support compliance for statutory interpretation, problem solving and correspondence advice (per above).	Ongoing

Leasing and Licensing Program

Program Manager:

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Program summary

The Fisheries Leasing and Licensing unit of PIRSA Fisheries and Aquaculture is responsible for the management of licensing and quota monitoring 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 and 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 reports as required.

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.

Activity	Days	FTE	Cost (\$)
Leasing and Licensing	4	0.02	3,792

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

	Deliverables	Due date
	Services to directly support the fishery	
1.	Issue and maintain fishery licences.	Ongoing
2.	Database management for licence and licence holder information.	Ongoing
3.	Recording and tracking of fishing night entitlements.	Ongoing
4.	Apply undercatch adjustments to fishing night entitlements for unused nights in previous fishing periods.	Ongoing
5.	Collect licence fees and associated payments.	Ongoing
6.	Compose and send quarterly instalment notices.	Ongoing
7.	Record and track unpaid invoices.	Ongoing
8.	Compose and send late payment instalment notices for unpaid quarterly instalments.	Ongoing
9.	Draft and issue notices to fishers.	Ongoing
10.	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 licensing, application for licence transfers, boat changes, gear enquiries and fishing regulations.	Ongoing
11.	Regularly update information about licence holders.	Ongoing
12.	Research and prepare documents for public record.	Ongoing
13.	Liaise with government stakeholders to verify the credentials of fishers.	Ongoing
14.	Liaise with PIRSA Fisheries and Aquaculture, SARDI Aquatic Sciences, Crown Solicitors and other state and local agencies on matters relevant to the fishery.	Ongoing
15.	Draft and update licence conditions over the duration of the licensing year as determined by the Executive Director, Fisheries and Aquaculture.	Ongoing
16.	Provide information to licence holders relating to the requirements pursuant to licence administration.	Ongoing
17.	Manage calls from fishers regarding late payment notices, fees and general enquiries about their licences.	Ongoing
18.	Provide support regarding an increased frequency of last-minute administrative enquiries from fishers. e.g. master changes, boat variations and quota transfers, as well as provide advice and support to fishers on licence information, to complete the required forms.	Ongoing

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

Directorate Program

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Program summary

Business Strategy, within the Directorate Unit of PIRSA Fisheries and 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 and Aquaculture Business Strategy unit.

Program strategies and supporting actions and initiatives

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.

Activity	Days	FTE	Cost (\$)
Directorate	3	0.02	2,610

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

Anticipated outcomes

	Deliverables	Due date
1.	Coordinate and facilitate cost recovery processes and program agreements, including liaising with program providers, managers and financial services as required.	Ongoing
2.	Meet with industry on matters relating to cost recovery, licence setting and related policy issues.	Ongoing
3.	Develop and review cost recovery policy, processes and program agreements.	Ongoing

4.	Manage major service providers' contractual agreements, and co-management services contractual agreements with industry associations.	Ongoing
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.	Ongoing
6.	Provide advice on procurement and invoicing requirements.	Ongoing
7.	Consult with the Chief Executive, Executive Director, Fisheries and Aquaculture, Director Operations, PIRSA fisheries managers, and the Office of the Minister and other parties as needed.	Ongoing
8.	Ongoing review, development and documentation of the cost recovery model, framework, processes and roles.	Ongoing
9.	Meet agreed timeframes on management and administration of external contractual services.	Ongoing
10.	Appropriate management of industry funds and services.	Ongoing
11.	Provide an Annual Report on PIRSA's service delivery of the Cost Recovery agreement to industry Executive Officer	September

Fisheries Compliance Operations Program

Program Manager:

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Program summary

PIRSA Fisheries and Aquaculture teams coordinate compliance activities (outputs) to build awareness and behavioural outcomes that have a long term beneficial impact in the Gulf St Vincent Prawn Fishery. The objective of the compliance activities (outputs) is to minimise the risks to aquatic resource sustainability, resource allocation and access rights and ultimately commercial economic viability.

The coordination of the compliance outputs is guided by an industry specific compliance plan which was developed in consultation with industry. These outputs are aimed at educating fishers, deterring opportunistic and financially motivated crimes, enforce the rules and regulations and reducing overall compliance risks to resource sustainability.

Legislative and regulatory framework

Fisheries Management Act 2007

Fisheries Management (Fish Processors) Regulations 2007

Fisheries Management (General) Regulations 2007

Fisheries Management (Demerit Points) Regulations 2009

Fisheries Management (Prawn Fisheries) Regulations 2006

Gulf St. Vincent Prawn Fishery Management Plan

Program effort, funding and resources

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 Gulf St. Vincent Prawn Fishery compliance program, gaining efficiencies through data driven and targeted operations and re-directing compliance effort where necessary to address current and emerging issues and risks.

The following table includes the number of days predicted to reflect the anticipated split of effort and associated costs to deliver the compliance outputs for 2022/23.

Table 1: GSVP Effort Allocation Against Compliance Outputs

Compliance Outputs	Days	FTE	Cost (\$)
Education Awareness	7	0.035	8,932
Effective Deterrence, Monitoring and Surveillance	12	0.06	15,312
Enforcement	1	0.005	1,276
TOTALS	20	0.10	25,520

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

IT systems, technology and data

Fisheries and Aquaculture Compliance Operations are supported by a number of electronic systems which continue to be refined to allow optimum delivery of information in a reliable and timely way. Some of the key systems that assist to drive the compliance outputs include:

- IBase and Analyst Notebooks (Intelligence system).
- FACT (Fisheries and Aquaculture Information Collection Tool).
- Timewise (Effort Reporting Tool).
- Evidence.com (Video Evidence Collection Tool).
- PIIMS (Primary Industries Information Management System – Quota and Licence Information).
- eCatch.
- eBrief (prosecutions system).
- Vessel Monitoring System (VMS).
- Commercial Fishing Application.

Delivery outputs

The coordination of compliance outputs is guided by an industry specific compliance plan which was developed in consultation with the Gulf St. Vincent Prawn Industry. The plan ensures compliance effort is intelligence driven, efficient, and cost effective and outcome focused. The compliance plan comprises three core outputs (Education and Awareness, Effective Deterrence and Appropriate Enforcement) and is optimised towards increasing voluntary compliance and maximising effective deterrence.

Analysis of intelligence and information holdings is regularly conducted to identify the major risks to the sustainable harvest of Prawns. The combination of strategies, actions, and initiatives are critical to focus the primary compliance effort to manage the risks and achieve targeted outcomes. The details are identified herein.

Intelligence

- Information collection.
- Analysis and testing of information voracity.
- Provide recommendations for targeted operations.
- Develop strategic assessments.

Education and awareness

- Conduct education meetings with new entrants into the fishery and participate in industry days.
- Provide electronic distribution of educational material to fishers and licence holders.
- Ensure all interested parties understand their respective obligations.
- Develop Industry communication & relationship programs to facilitate discussion of topics such as compliance inspection outcomes, bycatch and other issues impacting the Gulf St. Vincent Prawn Fishery.
- Ongoing one on one education during inspections.

Effective deterrence, monitoring and surveillance

- Ensure all aspects of monitoring, such as prior reporting, that chain of custody requirements are met in keeping information provided, and auditing of declared fishing nights.
- Ensure all aspects of commercial fishing activities are monitored such as inspections of catch at sea, when landed, in transit and at fish processing premises.
- Conduct intelligence driven operations that give rise to appropriate enforcement action.
- Respond to reported incidents/issue.
- Communicate activities in formal reporting.

Enforcement

- Investigate reports of non-compliance and where appropriate take action.
- Issue expiations and caution notices.
- Prepare briefs of evidence for the Crown Solicitors office to consider the commencement of court enforced actions.
- Communicate enforcement outcomes in formal reporting.
- Service of suspension notices.

Risk assessment and management (work priorities)

PIRSA use information obtained from intelligence, monitoring, surveillance and enforcement processes to assess compliance and sustainability risks to the fishery. This subsequently informs work priorities for service delivery. The priorities are prone to change during the fishing season however the following are currently relevant to the Gulf St. Vincent Prawn Fishery.

1. Failing to Prior Report Tradeable Fishing Nights.
2. Take Protected or Non Permitted Species.
3. Use Illegal Fishing Gear.
4. Fish in Closed Areas or Outside Prescribed Areas and Times.
5. Interactions with Obstructions on the Sea Floor.

Anticipated outcomes

PIRSA will assess the efficacy of the compliance program by evaluating particular outcomes. The outcomes will be in the form of stakeholder awareness, behaviour and impact. Evaluating these outcomes will support decision making and progress towards a common view of a mature fishery and ultimately co-management.

Awareness

Awareness is a short term outcome that is necessary to prevent unnecessary use of enforcement activities. Awareness constitutes and improved community and stakeholder attitude towards compliance, an improved understanding of legislation and regulation, improved stakeholder buy-in and participation and community support for offence detection. The attributes for each are articulated herein.

Improved community and stakeholder attitude

- Confidence in compliance ability to use statutory and discretionary powers appropriately.
- Understanding of the public value of compliance.
- Comprehension of services delivered by compliance against the objects of the Act.

- Confidence in compliance ability to sustain resource allocation equity amongst direct resource users.

Improved understanding of legislation and regulation

- Understanding fishing obligations.
- Legislation and regulation is considered simple and fair to follow.

Improved stakeholder buy-in and participation

- Actively engage with compliance in development of risk assessments, reporting frameworks and reviewing rules.
- Collaborative problem-solving.

Community support for offence detection and sanctions

- Actively provide relevant information.
- Industry driven initiatives and evidence of self-regulation.

Behaviour

Successful outcomes and long term sustainable fisheries are ultimately driven by behavior that is in the interest of sustainability, ongoing economic viability and public value. The behavioural outcomes that are important to PIRSA include stewardship, voluntary compliance and proactive approaches to compliance issues. The attributes for each are articulated herein.

Stewardship

Stewardship is the aggregation of a number of actions and behaviours where industry is entrusted with the management of the Gulf St. Vincent Prawn resource and the associated compliance of its members within the regulatory and legislative input constraints.

Some of the behaviours of stewardship include:

- An acceptance of change from traditional approaches and attitudes to strong partnerships between government, industry and key stakeholder groups.
- An established mutual trust and respect between government, industry and key stakeholders.
- An alignment of values that gives rise to industry and PIRSA communicating the same message focusing on the sustainability of the aquatic resource and associated ongoing economic viability as the primary drivers.
- PIRSA compliance appears seamless to industry. Inputs and outputs are shared. Joint investigations and national problem-solving actions are taken by all, collectively and with representative groups engaged in partnership.
- Minimal conflict exists with other stakeholder groups or industry has clear mechanisms or a demonstrated capacity to address the conflict.

Voluntary compliant behaviour

- All appropriate attempts to understand and adhere to rules and regulations are made by industry.
- PIRSA Fisheries and Aquaculture compliance is contacted when industry is unable to meet regulatory requirements so an alternative legal solution can be arranged.
- Industry members report other commercial fishers who fail to meet regulatory requirements.

Proactive approaches to compliance issues (incl. participation in governance process)

- Use established industry structures to collaborate on compliance issues to deliver the shared objective of sustainability and public value.
- Actively participate and respond to compliance issues.
- Highlight deficiencies in compliance programs and suggest improvements.
- Influence other industry participants to promote voluntary compliance.

Impact

The awareness and behavior changes will lead to a longer term impact that is reflected in economic and ecological sustainability, broad confidence in the allocation of Prawn between user groups, a confidence in the ability of PIRSA to manage Gulf St. Vincent Prawn resources and an industry that is free from the influence of serious and organised crime. The attributes for each impact is articulated herein.

Ecological and economic sustainability of aquatic resources

- SARDI stock status assessments reflect an ecological sustainability.
- Industry reflect economic sustainability.

Confidence and equity in resource allocation and access

- Recreational, commercial and Aboriginal fishing stakeholders are confident that the division of Prawn resources is fair and equitable.
- Investment support continues for ecologically and economically sustainable harvest of Prawns.

Reduced opportunity for recidivist offenders and Serious Organised Crime to exploit aquatic resources

- Regulators, law enforcement and industry have closed opportunities for Serious Organised Crime to participate in the Gulf St. Vincent Prawn industry.
- Industry has not had any impact resulting from Serious Organised Crime activities for a significant period of time.

Confidence in management of aquatic resources

- Positive public perception in the management of Gulf St. Vincent Prawn stocks.

- Positive consumer perception for commercially harvested Gulf St. Vincent Prawn.
- An absence of adverse industry publicity.

Deliverables

In line with the annual performance report the compliance deliverables will be presented separately.

Stock Assessment and Monitoring Program

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1. Project details

1.1 Title

Saint Vincent Gulf Prawn Fishery

1.2 Subcontractor/Collaborator

Saint Vincent Gulf Prawn Boat Owners' Association Incorporated

1.3 Timeframe

Commencement Date: 1 July 2019

Completion Date: 30 June 2023

1.4 Summary

This is the first four-year research program scope (2019/20–2022/23) for the Gulf St Vincent Prawn Fishery (GSVPF).

This Research Scope continues to reflect the reduced scope of work for the Gulf St Vincent (GSV) prawn fishery that commenced in 2014/15. This reflects (1) the outcomes from two independent reviews (Knuckey *et al.* 2011; Morgan and Cartwright 2013) resulting in a substantial rationalisation of the research program (principally a reduction from four to one fishery-independent survey per year (May); and (2) the closure of the fishery in 2012/13 and 2013/14.

The primary outputs are a gulf-wide fishery-independent survey (FIS) annually in May (2020, 2021, 2022, 2023) and in March 2023, and an annual stock assessment report due 31 October (2019, 2020, 2021, 2022, 2023). The 2018/19 assessment report will be delivered in October 2019 (part of the current SLA) and the 2022/23 assessment report will be delivered in October 2023 (part of the next SLA). In 2020/21, a pre-existing bio-economic model for the GSVPF will also be reviewed and updated to model and evaluate management scenarios as part of Harvest Strategy evaluation for the fishery in 2020/21.

2. Project description

2.1 Background

There are currently 10 licence holders in the GSV prawn fishery. Production from the fishery reached 273 t in 2008/09 (excluding survey catch) but declined to 223 t in 2009/10 and 125 t in 2011/12 before the fishery was closed in 2012/13. The number of stock assessment surveys required for the fishery was reduced from four to one (during May) from 2013/14. Comparison of survey results between years provides an effective measure of changes in relative biomass and stock status. Commercial catch/effort and fishery-independent data are integrated in stock assessment and stock status reports. Bio-economic modelling, undertaken in 2020/21 only, will assist in Harvest Strategy evaluation as part review of the GSVPF Management Plan (PIRSA 2017).

2.2 Need

This project addresses the need for scientific information to support sustainable use of the GSV prawn resource.

2.3 Objectives

- 2.3.1 Collect and analyse FIS data;
- 2.3.2 Collect, collate and analyse fisher logbook information; and
- 2.3.3 Provide a stock assessment report relating to objectives 2.3.1 and 2.3.2.
- 2.3.4 Review and update bio-economic model as part of Harvest Strategy evaluation for the fishery in 2020/21.

2.4 Methods

2.4.1 FIS data:

- Surveys to be undertaken with industry using commercial vessels.
- Annual FIS in May (2020, 2021, 2022, 2023; full survey, 5 boats, 2 nights).
- New/additional' FIS in December 2022 (full survey, 5 boats, 2 nights)
- 'New/additional' FIS in March 2023 (full survey, 5 boats, 2 nights)
- Provide independent observers for each boat of the FIS to monitor prawn size and abundance.

2.4.2 Fisher logbook information:

- Collate, validate and analyse fisher logbook information.

2.4.3 Bioeconomic model:

- In 2020/21, review and update Matlab bio-economic model, acquire new data, review, update and incorporate GLMs, evaluate Harvest Strategy using pre-existing management scenarios.

3. Deliverables

The key deliverables of the 2022/23 GSVPF stock assessment and monitoring program are tabulated below; additional work related to the core program is also identified:

Funding Source	Deliverable	Due Date
This SLA	Advice Note: 2021/22 Standardised annual CPUE results	15 September 2022
This SLA	2021/22 Stock Assessment Report delivered	31 October 2022
This SLA	Stock assessment presentations to PIRSA Fisheries and Aquaculture and Industry delivered as required	31 October 2022
This SLA	December Fishery Independent Survey (FIS) completed	31 December 2022
This SLA	March Fishery Independent Survey (FIS) completed	31 March 2023
This SLA	May Fishery Independent Survey (FIS) completed	31 May 2023
This SLA	Advice Note: December 2022, March 2023 & May 2023 FIS results	30 June 2023
PIRSA	Support implementation of Harvest Strategy and Management Plan	30 June 2023
FRDC	Project continuation: Evaluation of a smart-phone application to collect recreational fishing catch estimates, including an assessment against an independent probability based survey, using South Australia as a case study (FRDC project 2020/056; Principal Investigator: Dr Crystal Beckmann).	30 June 2023
FRDC	Project EOI/Proposal: A cost-efficient stock assessment program to determine status and set quota for Southern Calamari fisheries. (Note: this is a proposal, not a funded program).	30 June 2023

3.1 Service Provided:

3.1.1 *Collection of basic fisheries statistics*

- Manage comprehensive fishing logbook program.
- Collate fishing logbook returns and provide an in-confidence service.
- Validate returns (consultation with fishers to correct returns).
- Entry of data and storage.
- Database administration, maintenance and development.

3.1.2 *Collection of biological and fishery-independent survey information*

- Collection and storage of size and abundance information from FIS.

- Collection and storage of size-grade information.
- Collection and storage of basic prawn biological data, e.g. fecundity, length-weight relationships.

3.1.3 *Analyse and report*

- Provide a stock assessment report summarising key data.
- In 2020/21, review, update and run Matlab bio-economic model, evaluate Harvest Strategy using pre-existing management scenarios, presentation of results as required, including to PIRSA F&A and GSVPF Research Sub Committee

3.1.4 *Industry and Policy liaison*

- Participate and contribute to PIRSA/industry meetings where needed as the research representative.
- Participate in the Gulf St Vincent Prawn Fishery licence holders meetings.
- Respond to requests from PIRSA Fisheries and Aquaculture.

3.1.5 *Reporting*

- Attend GSVPF industry meetings including preparation and follow up.
- Keep the industry informed of research projects relevant to the GSVPF through the GSVPF MAC.
- Update SA fisheries status report as required.

3.2 **Outcomes:**

- Stock assessment of the GSVPF.
- Advice on the survey results measures against the performance indicators and reference points in the Management Plan.
- Advice on Harvest Strategy development.
- Advice to support fishery management from stock assessment outputs.

3.3. **Outputs and extension:**

- Provide an annual assessment report on the GSVPF to PIRSA Fisheries and Aquaculture by 31 October (2019, 2020, 2021, 2022, 2023) that documents, analyses and interprets the available data and assesses the fishery against the performance indicators identified in the Management Plan.
- Provide an Advice Note on the May fisheries independent surveys that summarise survey results by 30 June (2020, 2021, 2022, 2023), respectively.
- Provide an Advice Note on the March fisheries independent surveys that summarise survey results by 30 April 2023.

- Provide an Advice Note on the standardised annual (seasonal) commercial catch per unit effort (CPUE) by 15 September (2020, 2021, 2022, 2023).
- Annual presentation to PIRSA Fisheries and Aquaculture and the Management Committee of the SVGPBOA on the stock assessment of the GSVPF (2020, 2021, 2022, 2023).
- In 2020/21, present results of bio-economic model Harvest Strategy evaluation to GSVPF Research Sub Committee by 30 June 2021.

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

Financial Year	Total Funded by Licence Holders \$ (GST N/A)	Total In-kind \$ (GST N/A)	SARDI \$ (GST N/A)	Total Project Cost \$ (GST N/A)
2019/20	\$158,641	\$16,349		\$174,990
2020/21	\$262,405	\$33,085		\$295,490
2021/22	\$163,171	\$17,177		\$180,348
2021/22 (additional work*)	\$10,066	\$2,202		\$12,268
2022/23	\$342,284	\$27,086		\$369,370
TOTAL PROJECT	\$936,567	\$95,899		\$1,032,466

* March 2022 survey; funds (\$10,066 for SARDI salary and operating costs) recovered in 2022/23.

4.3 Milestone and payment schedule

Date	Milestone	Payment (\$) Ex GST
31 December 2019	First Half Payment 2019/20 SLA	\$79,320
31 May 2020	Second Half Payment 2019/20 SLA	\$79,321
30 June 2020	Advice Note: May 2020 survey results	
15 September 2020	Advice Note: 2019/20 Standardised annual CPUE results	
31 October 2020	2019/20 Assessment Report	
31 December 2020	First Half Payment 2020/21 SLA	\$131,203
31 May 2021	Second Half Payment 2020/21 SLA	\$131,202
30 June 2021	Bio-economic model update, HS evaluation and presentation of results	
30 June 2021	Advice Note: May 2021 survey results	
15 September 2021	Advice Note: 2020/21 Standardised annual CPUE results	
31 October 2021	2020/21 Assessment Report	
31 December 2021	First Half Payment 2021/22 SLA	\$81,585
31 May 2022	Second Half Payment 2021/22 SLA	\$81,586

30 June 2022	Advice Note: May 2022 survey results	
15 September 2022	Advice Note: 2021/22 Standardised annual CPUE results	
31 October 2022	2021/22 Assessment Report	
31 December 2022	First Half Payment 2022/23 SLA	\$176,175
31 March 2023	March FIS completed	
30 April 2023	Advice Note: March 2023 survey results	
31 May 2023	May FIS completed	
31 May 2023	Second Half Payment 2022/23 SLA	\$176,175
30 June 2023	Advice Note: May 2023 survey results	
SUBTOTAL		\$936,567
GST		NO GST
TOTAL COST		\$936,567

5. Project staff

Staff	2019/20 FTE	2020/21 FTE	2021/22 FTE	2022/23 FTE
Senior Research Officer	0.15	0.53	0.18	0.26
Principal Scientist	0.06	0.06	0.06	0.06
Research Officer	0.18	0.18	0.20	0.28
TOTAL	0.39	0.77	0.44	0.60

6. Project cost summary

Cost	Detail	2019/20 Total (\$) Ex GST	2020/21 Total (\$) Ex GST	2021/22 Total (\$) Ex GST	2022/23 Total (\$) Ex GST
Salaries (FTE)		0.39	0.77	0.44	0.60
Salaries (\$)		48,990	101,301	51,389	82,496
Operating					
Logbook program (\$)		11,163	11,498	11,843	12,198
Payment to industry for surveys (\$)		65,000	65,000	65,000	195,000
March 2022 survey; funds recovered in 2022/23*					10,066
Contractors			20,000		
Fieldwork (\$)		4,000	4,000	4,000	5,000
Laboratory (\$)					
Travel (\$)			3,021		
Office & communication (\$)		614	602	590	578
Capital equipment (\$)					
SARDI overhead (\$)		28,874	56,983	30,349	47,013
SARDI inkind (\$)		16,349	33,085	17,177	29,288
Total Cost (\$)		174,990	295,490	180,348	381,639
Revenue – PRICE					
PIRSA F&A (\$)	92%	158,641	262,405	163,171	352,350
Total Revenue (\$)		158,641	262,405	163,171	352,350
SARDI Investment (\$)	8%	16,349	33,085	17,177	29,289

Explanation of costs above:

* March 2022 survey; funds (\$10,066 for SARDI salary and operating costs) recovered in 2022/23.

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

SARDI Overhead - Indirect costs that cannot be directly attributed to a specific business activity, product, or service

SARDI in kind – SARDI investment through supporting costs for specific equipment, capital depreciation, infrastructure and research facilities

