

Fishery Improvement Plan New Zealand EEZ Arrow Squid Trawl Fishery (SQU1T)

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Version 2: July 2016 Version 1: May 2015

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Overview	Deepwater Group (DWG) and the Ministry for Primary Industries (MPI) are committed to the ongoing sustainable management of New Zealand's deep water fisheries. To this end we have jointly embarked on a Fisheries Certification Programme (FCP) with the objective of achieving independent certification of New Zealand's key deep water fisheries. Our FCP is a four- staged work programme and a summary of this process to date can be seen on our website. As part of this programme, two key squid fisheries are in formal Fishery Improvement Plans (FIPs). These are the Auckland Island Squid Trawl Fishery (SQU6T) and the EEZ Squid Trawl Fishery (SQU1T).
	This FIP for SQU1T has been developed by DWG using tools and templates provided by MSC to establish a public, transparent, inclusive and stepwise approach towards MSC certification.
	The FIP objective is to work towards improving the performance of the fishery to the point where it meets the MSC Fisheries Standard and subsequently achieves MSC certification. It also serves as a mechanism which enables external observers to track progress and to assess fisheries performance against the MSC Fisheries Standard.
	The following sections provide further details on the SQU1T FIP including a Gap Analysis and a Remedial Action Plan.
SQU1T Current FCP Status	The SQU1T fishery is currently progressing through the Remedial Action Plan stage of the Fishery Certification Process (FCP) (Figure 1, Table 1), involving the development of stock monitoring and assessment methodologies and the implementation of remedial management actions, within a specified timeframe.
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	Figure 1. The illustrative stages, 1 to 4, of Deepwater Group's Fisheries Certification Programme



Table 1. Timelines and milestones for the SQU1T Fisheries Certification Programme

Fisheries Certification Stage	Deliverables and Outcomes	Action Lead	Timeline for Milestone	Progress
Gap Analysis	Phase 1 – Confidential Pre-assessments against the MSC Standard: In September 2008 a Conformity Assessment Body (CAB) undertook a high level confidential pre-assessment of SQU1T against the MSC Fisheries Standard. The pre- assessment findings were updated in July 2012.	DWG & MPI	Sep 2008 July 2012	Completed
	Phase 2 – Fishery Gap Analysis: Assessed SQU1T against the MSC Fisheries Standard to identify potential non-conformities and information gaps.	DWG & MPI	Aug 2012	Completed
	 Phase 3 – Fishery Evaluations: Completed on the 'Fishsource' template. Provided the Sustainable Fisheries Partnership (SFP) with current information, for evaluation and for SFP to post to their FishSource™ website. Published relevant documents on the DWG website. Fishery performance was reviewed against the MSC Fisheries Standard v1.3 by DWG and MPI in October 2014, April 2015 and September 2017. 	DWG & MPI	Jul 2012 Oct 2014 Apr 2015 Sep 2017	Completed
Remedial Action Plan	Phase 1 – Fisheries Improvement Analysis: Identified reasons why the CAB pre-assessment identified certain Performance Indicators as unlikely to meet the MSC Fisheries Standard. Identified remedial management actions. Consulted with MSC Stakeholders.	DWG & MPI	Oct 2014 – April 2015	Completed
	Phase 2 – Fishery Improvement Plan: Implementing remedial management actions within an agreed and time-bound plan using MSC's Monitoring and Benchmarking FIP Template. Posted on DWG's website for public viewing.	DWG & MPI	Sep 2017	Remedial Actions In process
Third Party Assessment	 Phase 1 – MSC Assessment: Formal assessment of the SQU1T fishery against the MSC Fisheries Standard. DWG has sought guidance on the development of a revised set of P1 Performance Indicators appropriate for assessment of short-lived species (Aug 2017). 	CAB, DWG & MPI	Dec 2020	PI revision in progress
	Phase 2 – MSC Certification: Achieved certification of the SQU1T fishery against the MSC Fisheries Standard.	CAB, DWG & MPI	Dec 2021	



Stage 1 - Gap Analysis



The three phases of the first stage of the Fishery Certification Programme have been completed:

- Phase 1 Confidential Pre-assessment against the MSC Standard
- Phase 2 Fishery Gap Analysis
- Phase 3 Fishery Evaluations.

The outcomes of the pre-assessment against each Performance Indicator (PI), updated in light of progress achieved, are summarised in Table 2. Assessments of each PI are categorised as:

- Red = likely to score below 60
- Orange = likely to score between 60 & 80
- Green = likely to score above 80.



Table 2. Updated SQU1T pre-assessment scores, September 2017

MSC Component	MSC Performance Indicator	-assessment scores, September 2017 MSC Performance Indicator	Outcome 2015	Outcome 2017
Outcome	1.1.1	Stock Status: Stock at a level which maintains high productivity	<60	<60
	1.1.2	Stock Rebuilding: Where stock depleted, there is evidence of rebuilding	<60	<60
Management	1.2.1	Harvest Strategy: Precautionary and robust harvest strategy in place	<60	<60
	1.2.2	Harvest Control Rules & Tools: Well defined harvest control rules in place	<60	<60
	1.2.3	Information & Monitoring: Relevant Information collected to support harvest strategy	60-79	60-79
	1.2.4	Assessment of Stock Status: Assessment of stock status is adequate	<60	<60
	P1 ALL	Sustainability of Exploited Stock	Fail	Fail
Primary	2.1.1	Primary Species Outcome: Does not cause serious or irreversible harm to primary species	≥80	≥80
Species	2.1.2	Primary Species Management: Strategy in place for managing primary species	≥80	≥80
	2.1.3	Primary Species Information: Relevant information to help manage primary species	≥80	≥80
Secondary	2.2.1	Secondary Species Outcome: Does not cause serious or irreversible harm to secondary species	≥80	≥80
Species	2.2.2	Secondary Species Management: Strategy in place for managing secondary species	≥80	≥80
	2.2.3	Secondary Species Information: Relevant information to help manage secondary species	60-79	≥80
ETP species	2.3.1	ETP Species Outcome: Meets national and international requirements for ETP protection	60-79	≥80
	2.3.2	ETP Species Management: Precautionary management strategies in place	≥80	≥80
	2.3.3	ETP Species Information: Relevant information to support management of impacts	≥80	≥80
Habitats	2.4.1	Habitats Outcome: Does not cause serious or irreversible harm to habitat structure	 2015 <60 <60 <60 <60 <60 <60 <80 280 380 380	≥80
	2.4.2	Habitats Management: Information is adequate to determine risk to habitat types	≥80	≥80
	2.4.3	Habitats Information: Information adequate to determine risk to habitats	≥80	≥80
Ecosystem	2.5.1	Ecosystem Outcome: Does not cause serious or irreversible harm to ecosystem	2015 <60 <60 <60 50 79 <60 580 280 280 280 280 280 280 280 280 280 2	≥80
	2.5.2	Ecosystem Management: Measures are in place to mitigate risk to ecosystem		≥80
	2.5.3	Ecosystem Information: Adequate knowledge of impacts of fishery on the ecosystem	≥80	≥80
	P2 ALL	Maintenance of Ecosystem	Pass	Pass
Governance	3.1.1	Legal/Customary Framework: Management system exists with legal/customary framework	≥80	≥80
and Policy	3.1.2	Consultation, Roles & Responsibilities: Management system has clear processes	≥80	≥80
	3.1.3	Long Term Objectives: Management policy contains clear long-term objectives	≥80	≥80
Fishery	3.2.1	Fishery Specific Objectives: Fishery has clear and specific outcome objectives	60-79	60-79
specific management	3.2.2	Decision Making Processes: Management system includes effective decision making	60-79	60-79
system	3.2.3	Compliance & Enforcement: Monitoring, control and surveillance mechanisms in place	≥80	≥80
	3.2.4	Management Performance Evaluation: Performance evaluation processes in place	≥80	75
	P3 ALL	Effective Management System	Pass	Pass
		Total number of PIs equal to or greater than 80	18	19
		Total number of PIs 60-79	5	4
		Total number of PIs less than 60	5	5
		Overall BMT Index	0.73	0.77



Stage 2 - Remedial Action Plan



The first phase of the second stage of the Fishery Certification Programme has been completed.

Phase 1 Fishery Improvement Analysis

The performance of SQU1T has been assessed against the MSC Fisheries Standard (v1.3) to identify non-conformities and information gaps against the MSC Performance Indicators (SG60 and SG80) (Appendix 1).

Phase 2 Fishery Improvement Plan (FIP)

The second phase involves implementing the required remedial management actions and monitoring progress according to a public, timebound FIP.

The management actions being implemented to remedy the gaps identified in Phase 1 are provided in Table 3.

Projected timelines for each of the remedial management actions are provided in Table 4.

2017 Progress Update

An update on progress towards completing the remedial management actions is provided in Table 5. Remedial actions have been completed for Ecosystem Performance Indicators 2.2.3 and 2.3.1, associated with assessment and management of primary, secondary and ETP (Endangered, Threatened or Protected) species.



Table 3. Updated remedial management actions and links to MSC Performance Indicators, September 2017

					Links	s to MS	C Perfo	ormanc	e Indic	ators		
	ACTIONS				Target	91 stocks			Ecos Comp	2 ystem onents	Sys	3 jement stem
			1.1.1	1.1.2	1.2.1	1.2.2	1.2.3	1.2.4	2.2.3	2.3.1	3.2.1	3.2.2
1. \$	Stock assessment											
1.1	Develop and update stock assessment methodology.	DWG & MPI										
1.2	Acceptance of stock assessment methods by MPI.	DWG & MPI										
1.3	Develop and test near-real time collections.	DWG & MPI										
1.4	Undertake annual in-season stock assessments.	DWG & MPI										
1.5	Conduct MSE and review HS and HCR.	DWG & MPI										
1.6	Implement HS and HCR.	DWG & MPI										
1.7	Undertake near-real time stock assessments.	DWG & MPI										
1.8	Review data provision, assessment and management processes.	DWG & MPI										
3. 1	Management System											
3.1	Update fisheries management planning documentation.	DWG & MPI										
3.2	Develop and implement decision making processes.	DWG & MPI										

Notes: DWG - Deepwater Group Ltd, MPI - Ministry for Primary Industries



Table 4. Revised timelines for each of the remedial management actions, September 2017

	SQU1T		2017		18	8 20		20)20
		H1	H2	H1	H2	H1	H2	H1	H2
MSC	Principle 1: Stock Status								
1.1	Develop and update stock assessment fishery evaluation methodology.								
1.2	Acceptance of stock assessment and fishery evaluation methods by MPI and MSC respectively.								
1.3	Develop and test near-real time abundance estimation methods.								
1.4	Undertake annual in-season stock assessments.								
1.5	Conduct MSE and review HS and HCR.								
1.6	Implement HS and HCR.								
1.7	Undertake near-real time stock assessments of the SQU stock during an active fishery.								
1.8	Review data provision, assessment and management processes.								
MSC	Principle 2: Ecosystem Management								
2.1	Analyse fishery catch to identify 'main' bycatch species.								
2.2	Review and respond to stock status of 'main' bycatch species.								
2.3	Review and report on impacts of the fishery on relevant ETP species.								
MSC	Principle 3: Management System								
3.1	Update fisheries management planning documentation.								
3.2	Develop and implement clear decision-making processes.								

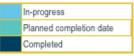




Table 5. Updates on remedial management actions, September 2017

MS	C Principle 1: Stock Status	Progress Update 2017
1.1	Develop and update stock assessment methodology.	Stage 1: A stock assessment method was developed in 2015 but was not accepted by MPI's stock assessment working group (McGregor & Large, 2016 [http://www.mpi.govt.nz/document-vault/12822]; McGregor & Tingley, 2016 [http://www.mpi.govt.nz/document-vault/12174]). Development of an appropriate method is ongoing.
1.2	Acceptance of stock assessment methods by MPI.	Stage 2: Evaluation of stock assessment method/s currently under development is expected in late-2018-early 2019.
1.3 1.4	Develop and test near-real time abundance estimation methods. Undertake annual in-season stock assessments.	
1.5	Conduct and review MSE, HS, and HCR.	Harvest strategy and harvest control rule development will be undertaken once there is an acceptable stock assessment.
1.6 1.7	Implement HS and HCR. Undertake near-real time stock assessments of the SQU stock during an active fishery.	Timelines have been changed to align with Stage 2 of the stock assessment development.
1.8	Review data provision, assessment and management processes.	
MS	C Principle 2: Ecosystem Management	Progress Update 2017
2.1	Analyse fishery catch to identify 'main' primary and secondary species.	Completed: An updated analysis of fish and invertebrate bycatch and discards for the SQU1T and SQU6T trawl fisheries combined, for the 2013-14 fishing year was undertaken by Anderson (2017, [http://fs.fish.govt.nz/Page.aspx?pk=113&dk=24284]). The analysis revealed there is a single 'main' primary species and a single 'main' secondary species: Barracouta (BAR, <i>Thyrsites atun</i>), makes up ~19.5% of the total catch and is a Primary species. Spiny dogfish (SPD, <i>Squalus acanthias</i>), considered a 'low resilience' species, makes up ~2.8% of the total catch and is a Secondary 'main' species.
2.2	Review and respond to stock status of 'main' bycatch species.	 Completed: Around 80% of the SQU1T catch occurs on the Stewart-Snares Shelf (south of South Island and immediately north of SQU6T). A secondary area is off the east coast of South Island. BAR: Four barracouta stocks are recognised (BAR1, BAR4, BAR5, BAR7). Most of the BAR bycatch in SQU1T is from the BAR5 stock. A level 2, partial quantitative stock assessment of BAR5 in 2016 estimated it was 'Very Unlikely' the stock was below the soft limit of 20%B₀ (< 10% probability) (MPI, 2017 [http://fs.fish.govt.nz/Page.aspx?pk=113&dk=24291]). The stock is therefore likely to be above the PRI. SPD: Six spiny dogfish stocks are recognised (SPD1, SPD3, SPD4, SPD5, SPD7, SPD8). Most of the SPD bycatch in the SQU1T fishery comes from the SPD5 stock. Catches over the last 12 years have been stable, ranging between 1,400 – 2,500 t, well below the TACC of 3,700 t (MPI, 2017a [http://fs.fish.govt.nz/Page.aspx?pk=113&dk=24381]). A qualitative level 1 risk assessment classified SPD as having: a relatively large population in New Zealand; as having moderate productivity and as showing some resilience to the effects of fishing (Ford <i>et al.</i>, 2015 [http://fs.fish.govt.nz/Page.aspx?pk=113&dk=23934]). Around 80% of SPD caught in the squid fisheries is legally discarded at sea either alive or dead. While there is no information on survival rates for discarded animals there is also no evidence of



		population decline in SPD5. (MPI, 2017b [http://fs.fish.govt.nz/Page.aspx?pk=113&dk=24290]).
2.3	Review and report on impacts of the fishery on relevant ETP species.	 Completed: Seabirds: There were 159 observed seabird captures in 2015-16 the main species being white-chinned petrel (85), white-capped albatross (15), southern Buller's albatross (12), sooty shearwater (15) and Salvin's albatross (1) (Dragonfly, 2017) [https://psc.dragonfly.co.nz/2017v1/released/birds/squid-traw/all/vessels/eez/2015-16]. MPI's Level 2 Risk Assessment (L2RA) (Richard & Abraham, 2015; 2015a), lists white-chinned petrels as 'medium' risk, white capped albatross population has been monitored over the last 10 years and shows no sign of persistent declir (Baker et al., 2014). Most of the SQU1T observed capture events in 2015-16 were net-captures, although few were released alive. Observers monitored over 90% of tows. [https://psc.dragonfly.co.nz/2017v1/released/white-capped-albatross/trawl/43m-vessels/auckland-islands/2015-16/]. The population of Southern Buller's albatross ('very high' L2RA risk status) is expected to grow by 5.7% over the next 10 years (Fu & Sagar, 2016). The L2RA risk assessment is confounded by difficulties in identifying southern and norther Buller's albatross by necropsy (northern Buller's albatross inhabit islands near the Chatham Rise as opposed to southern Buller's albatross which breed on sub-Antarctic islands). The Department of Conservation (DoC) currently has a project aimed at resolving this identification issue with genetic analysis tools, which will reduce this uncertainty (Wold <i>et al.</i>, 2016). For Salvin's albatross, recent aerial surveys have shown an increase in breeding pairs at Bounty Island and Proclamation Island (Baker et al. 2014). New Zealand fur seal: population status 'least concern'. There were 19 observed captures in 2014-15 and 10 in 2015-16. [http://www.doc.govt.nz/nature/native-animals/marine-mamals/seals/nz-fur-seal/] New Zealand sea lion: population status 'critically endangered'. There were two observed capture in 2014-15 and none in 2015-16. [http://www.doc.govt.nz/nature/native-a
		Observer coverage: in the SQU1T fishery 93% of the 1,438 tows were monitored by MPI observers in 2015-16 (MPI Annual Review Report 2015-16) [https://www.mpi.govt.nz/dmsdocument/17467-annual- review-report-for-deepwater-fisheries-for-201516].
		Operational Procedures: all vessels in the SQU1T fishery operate in accordance with agreed Vessel Operational Procedures which specif mitigation methods and devices to be employed, real-time reporting requirements following any ETP species captures and avoidance actions to be taken consequent to ETP capture events.



MSC Principle 3: Management System	Progress Update 2017

3.1 Update fisheries management planning documentation.3.2 Develop and implement clear decision-

making processes.

Actions are scheduled to commence once a stock assessment is completed.

Third-party Assessment



MSC Assessment

DWG's objective is to manage the SQU1T fishery towards achieving SG80 against all Performance Indicators. Stage 3 of the SQU1T FCP requires the submission of this fishery for full MSC Assessment against the MSC Fisheries Standard by an accredited MSC Conformity Assessment Body against the MSC Fisheries Standard.

MSC Certification

DWG will consider submitting the fishery for MSC assessment once an accepted in-season stock assessment method has been developed and tested, and the harvest strategy has been fully implemented.



Appendix 1

New Zealand's EEZ (SQU1T) Squid Trawl Fishery Improvement Analysis (Actions are referenced to Tables 3 and 4)

PI 1.1.1 – The stoc	k is at a level which maintains high productivity and has a low probability of recruitment overfi	shing		
MSC SG80 Certification Requirements	a) It is highly likely that the stock is above the point where recruitment would be impaired.b) The stock is at or fluctuating around its target reference point.			
Gap Analysis Findings	 The Gap Analysis found that: There is currently no assessment for the SQU1T stock. There are currently no stock specific limit or target reference points defined for the SQU1T stock. Therefore, it is currently not possible to demonstrate that it is <u>highly likely</u> that the stock is above recruitment would be impaired (i.e. above the limit reference point) or that the stock is at or fluct target reference point. 	e the point where		
Responses	 Develop and implement an assessment approach that will inform on the status of the SQU1T stock relative to appropriate limit and target reference points. Demonstrate, using an appropriate and accepted stock assessment methodology, that the stock status is either at or above an appropriate target reference point or it is highly likely that the stock is above the point where recruitment would be impaired. 	Actions 1.1-1.4 & 1.7-1.8		
PI 1.1.2 – Where th	ne stock is depleted, there is evidence of stock rebuilding within a specified timeframe			
MSC SG80 Certification Requirements	Certification			
Gap Analysis Findings	 The Gap Analysis found that: There is currently no evidence that this stock has ever been depleted. As this is essentially an annual stock, should rebuilding be necessary at any point, effective relevative require rapid implementation of a rebuilding plan. There is no formal harvest strategy which provides for a rebuild consistent with the biology of t Any defined rebuilding timeframe should be consistent with the essentially annual population d stock. Recruitment in invertebrate stocks is usually substantially driven by environmental factors. 	his species.		
Responses	 Develop and formalise a rebuilding plan for the SQU1T stock which would be applicable should the stock become depleted. Define the target and time-frame for rebuilding appropriate to the biology and population dynamics of the species. Use the stock assessment methodology developed to address PIs 1.1.1 and 1.2.4, to run simulations to support the development and testing of the rebuilding plan. 	Action 1.5		
PI 1.2.1 – There is	a robust and precautionary harvest strategy in place			
MSC SG80 Certification Requirements	a) The harvest strategy is responsive to the state of the stock and the elements of the harvest strategy achieving management objectives reflected in the target and limit reference points.b) The harvest strategy may not have been fully tested but monitoring is in place and evidence exachieving its objectives.			



Gap Analysis Findings	 The Gap Analysis found that: There is no formal harvest strategy which is "responsive to the state of the stock" and demonstrate harvest strategy elements successfully "work together towards achieving management objective" 	
Findings	 target and limit reference points." With no harvest strategy, no evidence of achievement of harvest strategy objectives exists. 	
	• With no harvest strategy, no evidence of achievement of harvest strategy objectives exists.	
Responses	 Conduct a Management Strategy Evaluation to define appropriate harvest strategy and harvest control rules. Review the SQU1T harvest strategy and harvest control rules to align with Management Strategy Evaluation. 	Actions 1.5 - 1.6
	Implement harvest strategy and harvest control rules through a Management Procedure.	
PI 1.2.2 – There ar	e well defined and effective harvest control rules in place	
MSC SG80	(a) Well defined harvest control rules are in place that are consistent with the harvest strategy and exploitation rate is reduced as limit reference points are approached.	ensure that the
Certification	(b) The selection of the harvest control rules takes into account the main uncertainties.	
Requirements	(c) Available evidence indicates that the tools in use are appropriate and effective in achieving the required under the harvest control rules.	exploitation levels
	The Gap Analysis found that:	
Gap Analysis Findings	 Neither a harvest strategy nor a defined harvest control rule (HCR) that "is consistent with the harvest would ensure that the exploitation rate is reduced as the limit reference point is approached. 	
	• There is no formal documentation of the main uncertainties that the HCR will need to address.	
Responses	 Develop, formalise, test and implement a "well defined" HCR that "is consistent with the harvest strategy and ensure that this will reduce the exploitation rate as the limit reference point is approached". 	Actions 1.4-
	The HCR will demonstrably address the main uncertainties relating to the fishery, its assessment and management.	1.7
PI 1.2.3 – Informat	ion and Monitoring	
MSC SG80	(a) Sufficient relevant information related to stock structure, stock productivity and fleet composition support the harvest strategy.	is available to
Certification Requirements	(b) Stock abundance and fishery removals are regularly monitored at a level of accuracy and cover with the harvest control rule, and one or more indicators are available and monitored with suffici support the harvest control rule.	
	(c) There is good information on all other fishery removals from the stock.	
	The Gap Analysis found that:	
Con Analysia	 The fishery has no shortage of "sufficient relevant information related to stock structure, stock pr fleet composition." 	oductivity and
Gap Analysis Findings	The timescales for collecting and handling of some of the fishery data collection will not support real time) stock assessments.	in-season (near-
	• With no Harvest Strategy or HCR, the adequacy of the information to adequately support and m the fishery in relation to the HCR cannot be evaluated.	onitor the stock,
	There is good information on all other fishery removals from the stock through the quota manag monitoring, control and surveillance systems.	ement and
	Develop, test and implement protocols to collect and handle those fishery data necessary for	
Responses	near-real time, in-season stock assessments in a timely manner.	Actions 1.3 &



	-	
	be adequately monitored and supported by the information that will continue to be collected from the fishery.	
	• Any deficits found in the type, quality or quantity of information to support the Harvest Strategy and HCR will be addressed.	
PI 1.2.4 – Assessm	ent of Stock Status	
MSC SG80 Certification Requirements	a) The assessment is appropriate for the stock and for the harvest control rule.b) The assessment takes uncertainty into account.c) The assessment of stock status is subject to peer review.	
Gap Analysis Findings	The Gap Analysis found the following:There is currently no assessment for the SQU1T stock.	
Responses	 Develop and implement an assessment approach that is appropriate for the stock and for the HCR and will inform on the status of the SQU1T stock relative to appropriate biological and management reference points. Characterise the nature and relative scale of assessment uncertainties and ensure that the assessment takes the principal uncertainties into account in an appropriate way. 	Actions 1.1- 1.3 & 1.7-1.8
PI 3.2.1 – The fishe	ery has clear, specific objectives designed to achieve the outcomes expressed by MSC's Principle	s 1 and 2
MSC SG80 Certification Requirements	 a) Short- and long-term objectives, which are consistent with achieving the outcomes expressed by N 1 and 2, are explicit within the fishery's management system. 	ISC's Principles
Gap Analysis Findings	 The Gap Analysis found that: While there are general fishery objectives within the Fish Plan, the detailed fishery specific objective the harvest strategy and HCR have not been documented. 	ves that match
Responses	 Update the fisheries management planning documentation to clearly express the short- and long-term objectives for this fishery such that they are consistent with the HS and HCR developed to address the needs of MSC Principle 1. 	Action 3.1
	ry-specific management system includes effective decision-making processes that result in meas ve the objectives and has an appropriate approach to actual disputes in the fishery under assessr	
	 a) There are established decision-making processes that result in measures and strategies to achieve specific objectives. b) Decision-making processes respond to serious and other important issues identified in relevant resmonitoring, evaluation and consultation, in a transparent, timely and adaptive manner and take accurate wider implications of decisions. 	search,
MSC SG80 Certification Requirements	 c) Decision-making processes use the precautionary approach and are based on best available information d) Information on fishery performance and management action is available on request, and explanation for any actions or lack of action associated with findings and relevant recommendations emerging for any actions. 	ons are provided
	 e) The management system or fishery is attempting to comply in a timely fashion with judicial decision any legal challenges. 	,
Findings from Gap Analysis	 The Gap Analysis found that: Appropriate decision making processes for managing in-season assessments and implementing n season management have not been agreed and formalised. 	ecessary in-
Proposals for Fisheries Improvement	 To develop, agree, document and implement clear decision making processes that will enable successful implementation of in-season stock assessment and management for this fishery. 	Action 3.2



•	To ensure that, as appropriate, this implementation also addresses serious and important	
	issues (b), meets precautionary decision making objectives (c), is available to those interested	
	(d) and supports the existing approach to compliance with judicial decisions (e) above.	