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# 2023 ANNUAL MONITORING PLAN

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2023

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## 1.0 INTRODUCTION AND BACKGROUND

### 1.1 Morice Water Management Area

The Morice Water Management Area (MWMA) was established as part of the Morice Land and Resource Management Plan (LRMP) with the intent to protect the hydrological integrity, water quality, water quantity, and fisheries of the upper Morice River watershed in Wet'suwet'en traditional territory (MAL 2007). Overarching objectives for the MWMA included the development of an area-based water management plan and a water monitoring program. Initial objectives of the water monitoring program were to establish baseline data for the development of water quality objectives and guidelines.

A framework for water monitoring and assessment for the MWMA was prepared in June 2008, initial monitoring was conducted by the Office of the Wet'suwet'en (OW) in the summer of 2008, and the MWMA Multi-Year Operational Plan for water monitoring was created in 2009 (Gordon and Associates Ltd. 2009). Since 2008, there have been independent monitoring activities undertaken in the watershed by the Province, the Office of the Wet'suwet'en, and industry. These programs have focused largely on monitoring potential impacts from past disturbance or collecting baseline water quality data. While these efforts constitute a substantial amount of work accomplished within the watershed, there was need for a longer-term, scalable, and consistent program that could adapt with developing partnerships and provide opportunities for additional resources over time.

### 1.2 Morice Water Monitoring Trust

The Morice Water Monitoring Trust (MWMT) was established in 2012 to enable longer-term monitoring of the MWMA and establish a path forward for addressing objectives and guidelines. Our Trust Agreement is an innovative governance document with Wet'suwet'en Hereditary Chiefs as Settlers of the Trust. The MWMT is directed through its Trust Agreement to be responsible for monitoring the implementation and effectiveness of BC / Wet'suwet'en government-to-government agreements, and related natural resource management activities, plans, and policies in the MWMA (the 'Morice Plans').

Our focus is watershed monitoring and management through a collaborative, long-term, science-based program. We work on the unceded territory of the Wet'suwet'en, and we acknowledge that this work would not be possible without the support and guidance from the Office of the Wet'suwet'en. We appreciate and honour our relationship with the Wet'suwet'en and look forward to collaborating on future work on the land.

In 2015, MWMT developed a Strategic Direction Plan that focused on five Core Values: Water Quantity, Water Quality, Sediment Quality, Fish and Habitat Productivity, and Information Sharing (MWMT 2015).



**Figure 1. The MWMT’s five core values**

The initial focus of the watershed monitoring program was to establish a scientifically valid baseline of water quality data that accounts for natural variation. Baseline data on the aquatic health necessary to support salmon and other fish includes water quality, water quantity, biology, geomorphology and connectivity data. This data collectively informs indicators of natural resource sustainability and ecosystem health identified in the Morice Plans. The role of the MWMT is to collect information related to the goals and objectives for the Morice Water Management Area and communicate this information to the Trustees, decision makers, and others as appropriate. Each year, we plan and implement a program to:

- Collect water science information,
- Identify where water-related issues exist,
- Fill data gaps,
- Provide information to others for decision making, and
- Most recently, to plan, implement and promote watershed restoration.

Our initial geographic scope was the MWMA (upper Morice) designated in the 2007 Morice LRMP. In 2021, the Trustees passed a motion to formally expand the geographic scope of the MWMT activities outside the MWMA initially to include the Upper Bulkley and all the Morice basins. It is the MWMT’s intent to operate on this basis until the change is legally made.

**1.3 Summary of Previous MWMT Field Programs**

The following briefly summarizes MWMT field programs conducted to date, and which of the four core values are addressed:

<b>2015 to 2017</b>	<b>Core Value: Water Quality</b>
	Water quality sampling was conducted at five sites within the MWMA.

<b>2018</b>	<b>Core Value: Water Quality</b>
	The Trust expanded winter seasonal representation of water quality data and released a report summarizing and analysing MWMA water quality. Data for the report was pulled from the MWMT and the BC environmental Monitoring System (EMS) database (Oliver 2018).

<b>2019</b>	<b>Core Value: Water Quality</b>
	The Trust expanded summer seasonal representation of water quality data.
	<b>Core Value: Water Quantity</b>
	Hydrology stations were established at Maxan Creek and Gosnell Creek for water quantity monitoring.
	<b>Core Value: Fish Habitat and Productivity</b>
The Trust collaborated with the OW and Ministry of Environment and Climate Change Strategy (MOE) to collect benthic macroinvertebrate samples for the STREAM (Sequencing the Rivers for Environmental Assessment and Monitoring) program. This program provides a better understanding of aquatic ecosystem health through DNA metabarcoding.	

<b>2020</b>	<b>Core Value: Water Quality</b>
	The Trust conducted further water quality sampling to fill data gaps during the summer low flow period. An update report on MWMA water quality was released with data summaries and recommendations for future work.
	<b>Core Value: Water Quantity</b>
The water quantity (hydrology) program developed a rating curve by monitoring both stage and discharge at Gosnell and Maxan stations. A discharge-discharge relationship between the Maxan (MWMT) and Topley (OW) hydrology stations was successfully determined.	

	<p><b>Core Value: Fish Habitat and Productivity</b></p>
	<p>The Trust funded a collaborative OW and University of Victoria research program that collects water samples at historically-known spawning grounds and nursery lakes of sockeye salmon populations in Wet’suwet’en Territory for eDNA analysis. The results of this project, combined with additional years of sampling, will fulfill a key recommendation in the Upper Bulkley Salmon Habitat Report (Price 2014).</p>
<p><b>2021</b></p>	<p><b>Core Value: Fish Habitat and Productivity</b></p>
	<p>Through the Healthy Watersheds Initiative, the MWMT completed phase one of a multi-year riparian restoration project in the Upper Bulkley and Upper Morice basins. Ten sites along the Upper Bulkley and Maxan Creek were selected for restoration through live-staking and low technology, process-based riparian restoration techniques.</p>
	<p>The Trust continued to fund the collaborative OW and University of Victoria research program analyzing eDNA at historically-known spawning grounds and nursery lakes of sockeye salmon populations in Wet’suwet’en Territory.</p>
<p><b>2022</b></p>	<p><b>Core Value: Water Quality / Information and Sharing</b></p>
	<p>To support the Wet’suwet’en living on the territories, the Trust participated in outreach activities and provided training in drinking water monitoring. Six sites were selected on Lamprey Creek and the Morice River for water quality monitoring. OW technical staff assisted the project lead in sampling and training.</p>
	<p>Hydrocarbon monitoring was added to the water quality testing at the request of the OW to monitor for adverse effects of industrial activity in the area.</p>
	<p><b>Core Value: Water Quantity</b></p>
	<p>MWMT’s water hydrology stations, data and program were assessed this year. Long-term planning for future hydrometric monitoring and integration with the work of other organizations is required to continue this project. A collaborative workshop is planned for 2023.</p>

	<p><b>Core Value: Fish Habitat and Productivity</b></p>
	<p>The Trust continued to fund the collaborative OW and University of Victoria research program analyzing eDNA at historically-known spawning grounds and nursery lakes of sockeye salmon populations in Wet’suwet’en Territory. The multi-year riparian restoration project in the Upper Bulkley and Upper Morice basins continued through effectiveness monitoring and site touch-ups.</p>

**1.4 MWMT Collaborations**

The MWMT currently collaborates with several organizations in order to plan and implement our AMP. Our collaboration with BC Freshwater Legacy has resulted in a part-time Watershed Coordinator position with the MWMT. The Watershed Coordinator supports communication and coordination between the Morice Water Monitoring Trust (MWMT), the Office of Wet’suwet’en (OW), the Province, and stakeholders within the watershed. They work closely with on-the-ground partners in the MWMT and the OW to facilitate coordination of organizations within the region, advance collaborative water monitoring initiatives, and undertake community engagement and education work. Having a dedicated watershed coordinator to bring together all the complex players, relationships and issues relating to water in the area has made great strides towards a cohesive and collaborative strategy with a goal of defining broader stakeholder values that need to be represented as water objectives and in a Water Sustainability Plan (WSP). By convening organizations for strategic meetings to align activities, leverage resources and coordinate planning, future decision-making will be improved by containing a broader perspective and knowledge base.

Other collaborative partners include the Unist’ot’en Healing Centre, Dze L K’ant Friendship Centre Society, Skeena Knowledge Trust, the Skeena Fisheries Commission, A Rocha Canada, Coast Mountain College, and the Pacific Salmon Foundation.

**2.0 ANNUAL MONITORING PROGRAM- 2023**

Each year an Annual Monitoring Plan (AMP) is developed to set out the year’s proposed activities and budget. The AMP is informed by the MWMT Agreement, the MWMT Strategic Plan, the previous year’s AMP and advice from our technical advisory group (see section 2.3.1). The 2023 AMP documents and generally describes monitoring programs that will be implemented by the MWMT, either independently or through partnerships. The Plan also contains considerations regarding integration between disciplines, and annual reporting recommendations. The MWMT Technical Director and Director of Operations approve the AMP in consultation with the other Trustees.



The following subsections describe the components of the 2023 monitoring program. A detailed budget is provided in Section 3.0 and a schedule is provided in Section 4.0.

## **2.1 Task 1 - Program Management**

Program management activities include those functions that are necessary for the effective delivery of MWMT projects. Administrative project management duties will be performed by Northwest Research and Monitoring Ltd. (NWRM).

### *2.1.1 Trust Project Management*

Program management tasks include:

- Prepare and update Trust management documents as directed by Trustees (present bank balance monthly, budget, quarterly variance and expense reporting – to be presented at quarterly Trustee meetings).
- Facilitate meetings. Six Trust meetings will occur each year:
  - Quarterly Trustee meetings to discuss regular MWMT operations. Meetings will occur the second week of each quarter.
  - One annual financial meeting with the RBC Securities Financial Manager.
  - One annual vision/strategic planning meeting.
- Manage Trust expenditures as defined by the AMP.
- Develop the Annual Monitoring Plan in collaboration with the Trustees:
  - Provide initial description of projects and cost estimates.
  - Facilitate discussion in relation to project selection.
- Advise Trustees as necessary on strategic and operational planning.
- The Project Manager will continue to find new opportunities to fulfill the purposes of the Trust. Research grant and partnership opportunities, and coordinate and write funding proposals.
- Liaise and collaborate with relevant stakeholders to strengthen existing and build new relationships.

#### *2.1.1.1 Trust Project Coordination*

- Prepare Trustee meeting agendas and take minutes.
- Coordinate MWMT programs with other programs occurring in 2023.

### 2.1.2 *Office Rent and Consumables*

With increasing operating budgets, there has been an increased need for physical working, meeting and storage space. A physical office in the Northwest Research and Monitoring (NWRM) building, in addition to the boardroom, will support this increased capacity.

NWRM will provide the MWMT with an office, boardroom and storage space, as well as all utilities in a monthly rent of \$600.

## 2.2 **Task 2 – Agreement Monitoring**

As mentioned in Section 1.2 above, one of the purposes of the MWMT, as outlined in the MWMT Strategic Direction report, is to monitor the implementation and the effectiveness of any British Columbia/Wet’suwet’en government-to-government agreements, and related natural resources management activities, plans, and policies in the Morice Water Management Area (the “Morice Plans”).

The objective of this task is to conduct land use scoping within the MWMA. The agreement monitoring process was reviewed and an objectives table was created. In 2023, legal obligations will be separated out from the aspirational and a review of what targets are not being met will be completed.

A ‘Needs Assessment’ for the watershed that lists priority projects, a brief description of work to be done and an approximate budget to refer to with future funding opportunities will be completed.

## 2.3 **Task 3 – Field Programs**

The 2023 field programs align with the Water Quality, Water Quantity, and Fish and Habitat Productivity Core Values.

### 2.3.1 *Technical Advisors*

Each year, the Trust secures trusted advisors to provide expertise for our research and monitoring programs. The Technical Advisors assist with:

- Long and short-range planning of field programs.
- Providing technical advice, such as, but not limited to:
  - General technical reviews,
  - Annually reviewing all MWMA/MWMT literature and supporting documents and updating as necessary,
  - Ensuring project objectives and goals are being pursued and/or achieved,
  - Ensuring all data and procedures are up to provincial standards, and
  - Adaptively managing the program to respond to varying data, budget, and stakeholder influences.

Limitations in the number of key technical consultants had the potential of impacting past AMP schedules and budgets. This year, the Trust will invest time and resources into increasing our technical consultant capacity to ensure that the MWMT's research and monitoring program remains resilient.

### *2.3.2 Water Quality/Quantity Monitoring*

The Core Value of Water Quality as identified in the MWMT Strategic Direction report will continue to be addressed with monitoring activities in 2023. NWRM, as MWMT administration, will continue assisting with logistics relating to field activities within the MWMA. Projects will be coordinated with OW staff whenever possible. Safety protocols and procedures will be continually improved, adapted and implemented.

#### *2.3.2.1 Water Quality Attainment Monitoring*

The final draft of the Water Quality Objectives Technical Assessment Report, completed in March 2023, will inform the water quality monitoring for the year. The intent is to further refine the Water Quality Objectives (WQOs) by increasing available data, monitor for attainment of selected WQOs, and determine ongoing Water Quality Guidelines (WQGs) attainment for additional water properties. Generally, attainment monitoring is recommended to occur every three to five years in each area of interest, depending on rates of actual and probable changes.

Continuing from our past monitoring program and the MWMA WQOs technical assessment report, sites considered for monitoring include Nanika River, Morice River, Cutthroat Creek, McBride Creek, Nado Creek, Gosnell River, Shea Creek and Crystal Creek. After consultation with technical advisors, Nado Creek will be removed from the monitoring plan this year as it typically dries up in summer and winter, and is suspected to contain groundwater, rather than water from upper catchments. Alternative sites on Nado Creek will be considered for future monitoring. Gosnell Creek, Shea Creek and Crystal Creek will be of the highest priority for sampling as these areas have the highest amount of human activity.

In previous years, the MWMT has focused monitoring on rivers and streams. Morice Lake is a large waterbody within the MWMA, of which adding a sampling location to would expand our knowledge of water quality in the area. A reasonable goal to begin with is a seasonal summer WQO, the easiest and most applicable time for sampling. The Skeena Fisheries Commission (SFC) is embarking upon a Skeena limnology program that includes one full survey of Morice Lake, data that can go towards building a WQO. The SFC have offered to collaborate with the MWMT, cutting costs for equipment and boat rentals.

A full program of attainment monitoring would include monthly sampling plus five-in-thirty sampling during seasonal events: spring and fall high flows and summer and winter low flows. Monthly sampling is planned from May 2023 to March 2024 at Nanika River, Morice River, Cutthroat Creek, McBride Creek, Gosnell River, Shea Creek and Crystal Creek. As a full sampling

program would strain available budget and capacity, we will focus on filling data gaps with five-in-thirty sampling at Gosnell Creek, Shea Creek and Crystal Creek during spring and fall high-flow. In addition, Morice Lake will be sampled three times from June to September.

Water temperature can show large diel fluctuations; therefore, water temperature is most appropriately monitored throughout the day and at high enough resolution to reflect daily changes. In previous years, discrete water temperature measurements were taken at monitoring sites during sample collection, rather than at times that accurately reflect the true daily maximum. More detailed continuous temperature data is needed to determine thermal patterns in these systems, true maximums, their duration and daily variability. To meet this need, the Trust will purchase and install seven temperature loggers at Morice River, Nanika River, Cutthroat Creek, McBride Creek, Gosnell River, Shea Creek and Crystal Creek. Additional temperature loggers are being installed through a separate project (see section 2.3.4).

#### *2.3.2.3 Hydrology*

After assessment of the two MWMT hydrology stations located at Gosnell Creek and Maxan Creek in 2022, it was decided that the equipment should be pulled from the field until a long-term hydrology plan is determined (see section 2.6.6 Hydrology Workshop). For safety and efficiency reasons, the retrieval was delayed until safe spring conditions in 2023. Funding from last year's AMP will be rolled over for this year to complete this task.

#### *2.3.2.4 Petroleum Product Aquatic Detection and Impact Assessment*

Hydrocarbon monitoring will continue to be researched as a new aspect of MWMT monitoring. This includes petroleum product spill tracking and impact assessment monitoring at locations in the Upper Morice basin where quantities of petroleum products are transported, stored and/or used (e.g., storage at stationary or mobile tanks, areas where there are industrial equipment and activities). Standard grab sampling and one of the most commonly used passive samplers for organic contaminants in surface-water monitoring, the semipermeable membrane device (SPMD), will continue to be investigated for efficiency.

In 2022, a monitoring plan was developed with site selections based on locations of known spill sites of significant quantities and assessment of the likely mobilization, transport and deposition of hydrocarbons. Additional control and test sites have been selected based on industrial activity in the area (with no reported spills).

Contracted field staff will be trained by Environment Canada (ECCC) technicians in SPMD usage virtually in April and in the field early summer. This program will be implemented in consecutive steps with each step influencing the next, and overall results influencing monitoring planning for the next year(s) using a continuous improvement approach. A cost/benefit analysis will be a

key component in determining the efficacy and size of the program. Analysis and interpretation of data will support impact assessment.

### *Task 2.3.3 Outreach, Research, Monitoring and Training for Wet'suwet'en*

As part of our primary goals, stated in the Strategic Direction document, the MWMT will continue to support the Wet'suwet'en living on the territories through outreach, research, monitoring, and training. Previously, several individuals participated in water quality sampling training and drinking water quality was tested throughout last year.

Outreach and communication will continue throughout the program to assess people's needs, interests, and capacity. Tap water at Unist'ot'en Village will continue to be tested on a monthly basis during WQOs monitoring field days (see section 2.3.2.1).

### *2.3.4 Fish and Habitat Productivity eDNA Analysis*

The Core Value of Fish and Habitat Productivity will continue to be addressed with the characterization of the current distribution of sockeye salmon in Wet'suwet'en traditional territory, including the upper Bulkley River and tributaries of the Morice River, and cataloguing potentially extirpated populations. Through partnerships with the OW and the University of Victoria, spawning grounds and nursery lakes of each of these populations were sampled from 2020 to 2022.

This program complements the Sockeye Salmon tagging study at OW Fisheries in understanding where the fish are spawning, how they are distributed and how the population is responding and possibly shifting distribution with climate change.

The MWMT will continue to support partners in collection of water samples for eDNA analysis at systems that have high potential to host salmon in the future. In 2023, an additional stream flowing into Morice Lake will be added and temperature data loggers will be deployed at streams where eDNA is being collected from: the unnamed river that flows into Morice Lake at its northern end, and the upper Atna River that flows into Atna Lake.

### *2.3.5 Watershed Restoration*

The Upper Bulkley River watershed has been identified by numerous investigations as highly impacted with degraded riparian conditions. The MWMT began restoration activities to reduce streambank erosion on the Upper Bulkley River and Maxan Creek in 2021 and continued efforts in 2022.

If additional project funding becomes available, the MWMT will work with collaborators on further watershed restoration. Otherwise, MWMT funds have been allocated to continued maintenance and effectiveness monitoring of previously restored riparian areas in the Upper Bulkley River watershed.

## 2.4 Task 4 – Data Management

The data management task aligns with the Information Sharing Core Value. A data management plan is in progress that adheres to the FAIR principles - Findable, Accessible, Interoperable and Re-useable. The plan also embraces OCAP principles: Ownership, Control, Access and Possession with all data being shared with the OW.

Three main tiers of data management have been identified for the MWMT:

1. Local: Project working files – internal, shared among technical partners.
2. Regional: Published files – regional external, published reports, data, discoverable.
3. Provincial: Published files – Provincially/Nationally external, large monitoring systems connected to regional published data.

Internally facing and externally facing functionality including data importing, quality control, editing, transformation, analysis, archiving and distribution are key to our decisions. Additionally, spatial enablement, the process of attaching salient geographic information to data in order to aid the discovery, querying, interpretation, visualization and downloading of that data is also vital to our principles.

### 2.4.1 Annual Data Management - Internal

A standardized approach to MWMT long-term data archiving, analysis, interpretation and reporting continues to evolve. Templates will continue to be developed for data compilation and reporting and will include provisions that address dealing with an evolving monitoring program.

Data is scanned, uploaded and organized to a secure cloud-based project management platform after each survey. Data is processed and managed through standard QA/QC procedures.

### 2.4.2 Annual Data Management - External

Public reports are made available on the Trust website, moricetrust.ca, as well as the Skeena Knowledge Trust's Skeena Salmon Data Center. Water quality data is uploaded to the Environmental Monitoring System. Funds have been allocated for fees and preparation of MWMT data to be uploaded on external databases. This aligns with the MWMT Strategic Direction document goal of providing data to support monitoring and improve further planning. Skeena Knowledge Trust (SKT), a registered Canadian charitable organization based in Smithers, BC.

## 2.5 Task 5 – Reporting

The reporting task aligns with the Information Sharing Core Value.

### *2.5.1 Water Quality Objectives – Assessment Report and 2023 Follow Up Reporting*

WQOs provide approved policy direction to guide the balance between human use, values and healthy aquatic environments by guiding statutory decisions that may impact the quality of a specific waterbody.

Once sufficient monitoring data was collected in 2020, the MWMT began drafting the first WQO technical assessment report for the MWMA. After extensive review, provincial methodology updates and revision, this report was submitted to the province for a final review in March 2023. The OW will be submitting a companion piece on Wet’suwet’en values in the MWMA as part of a government-to-government agreement to be included in the WQOs.

This fund will be allocated to supporting the next steps in acceptance of the technical report and Wet’suwet’en values piece by the province and signing of the WQO policy document. Attainment monitoring for WQOs will begin this year and the data analysis and reporting will also fall under this task.

### *2.5.2 Technical Summary Reports*

Brief MWMT Technical Summary Reports will be prepared by contractors that summarize the activities and field programs completed. A companion document to the AMP, the Annual Monitoring Report details the implementation of the program and reasoning behind any deviations from the activities described in the AMP (as needed). The reports will be submitted to the Trustees and stakeholders by the end of April 2024.

## **2.6 Task 6 – Communication and Extension**

### *2.6.1 Website Upgrade Maintenance*

An updated MWMT website continues to develop – one that better meets our obligations for extension of our research, and to better communicate our results. The new website will be published this year.

### *2.6.2 Charity Accounting and Annual Filings*

The MWMT was registered as a charity with the Canada Revenue Agency (CRA) in 2020. Charitable status requires regular reporting, meetings and filings with the CRA.

### *2.6.3 Stakeholder/Funder Relations*

This task provides funds for any relationship building activities with funders, vital to the ongoing growth and sustainability of the MWMT and its research program.

### *2.6.4 Volunteer Incentives*

Expansion of research programs and community outreach includes volunteer opportunities with the MWMT. Volunteer incentives include refreshments, lunches and honorariums.

### 2.6.5 Hydrology Workshop

In order to develop a long-term monitoring plan for hydrology, the MWMT will host a workshop with hydrologists and other relevant technical professionals in Northwest BC. This three-session workshop will elucidate a common understanding of the current mainstem and tributary basin hydrometric data in Northwest BC. Questions to be addressed include:

- What quantitative data is being produced.
- What specific purposes the data being used for.
- How Indigenous knowledge being used in concert with quantitative data.
- What data is being used for regulatory and planning processes.
- What gaps exist in the data for a range of purposes.
- Collaborative opportunities.

Information from this workshop will assist the MWMT in determining whether it will participate in future hydrometric monitoring or collaborate with other organizations attaining hydrology data. The MWMT is exploring collaboration with the Pacific Salmon Foundation for predictive modeling in our area.

## 3.0 BUDGET

Funding for the 2023 Annual Monitoring Program is provided by the MWMT Revenue Trust Account and external agencies (i.e., ENV) The budget provided below in **Table 1** is based on high end projections for the field work and some programs may cost less.



**Table 1. Budget for the 2023 Annual Monitoring Program**

Tasks	Cost
<b>Task 1 Program Management</b>	
Trust Project Management and Coordination	<b>\$21,000</b>
MWMT Office Rent and Consumables	<b>\$7,200</b>
<b>Task 2 Agreement Monitoring</b>	
Land Use Scoping*	<b>\$5,000</b>
<b>Task 3 Field Programs</b>	
Technical Advisors*	<b>\$20,000</b>
Water Monitoring, Total*	<b>\$124,800</b>
Water Quality Objectives	\$87,800
Hydrology	\$2,000
Hydrocarbon Monitoring	\$35,000
Outreach, Research, Monitoring and Training for Wet'suwet'en	<b>\$5,000</b>
Fish and Habitat Productivity	<b>\$15,000</b>
Watershed Restoration	<b>\$5,000</b>
<b>Task 4 Data Management</b>	
Annual Data Management – Internal	<b>\$3,000</b>
Annual Data Management – External	<b>\$2,000</b>
<b>Task 5 Reporting</b>	
Water Quality Objectives	<b>\$5,000</b>
Technical Summary Reports*	<b>\$1,500</b>
<b>Task 6 Communication and Extension</b>	
Website Upgrade and Maintenance*	<b>\$5,000</b>
Charity Accounting and Annual Filings*	<b>\$4,000</b>
Stakeholder/Funder Relations	<b>\$4,000</b>
Volunteer Incentives	<b>\$2,000</b>
Hydrology Workshop	<b>\$2,500</b>
<b>Sub-total</b>	<b>\$232,000</b>
BC Ministry of Environment Funding Contribution**	<b>-\$10,000</b>
<b>Total</b>	<b>\$222,000</b>

\*Partial carryover from 2022

\*\* B.C. MOE has historically supported water quality monitoring at ~\$10,000 per year. The exact amount is unknown at this stage and will be adjusted accordingly.

**4.0 SCHEDULE**

The following outlines the proposed schedule for the 2023 field program and associated reporting. Other 2023 tasks are ongoing throughout the year and not shown. The final field schedule would be developed in collaboration with the OW and we will make every effort to ensure the final schedule coordinates efficiently with the OW technical staff availability.

	Q1 - 2023			Q2			Q3			Q4			Q1 - 2024		
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
WQOs Monitoring		■	■	■	■	■	■	■	■	■	■	■	■		
Hydrology			■												
Hydrocarbon Monitoring			■	■	■	■	■	■							
Fish and Habitat Productivity					■	■									
Watershed Restoration		■	■	■	■	■	■								

## 5.0 REFERENCES

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