

Deliverables = Key Planned Achievements or Milestones

Completion Date (Monthly)	Deliverable = Planned Achievement	Measure of Completion How do you know it's done?	Resource & Time required Skill required? Person? Time required?
By end of March 2011	Participate in 7 full day Mediated Modelling workshops to prepare Action Plan for River Leaders Accord	Action Plan submitted	COMPLETE
End of May 2011	Identify 6 core team members to share knowledge and undertake the research with Project Leader and Project Kaumatua	Acceptance letters with dates for each noho posted to each member	Admin assistance to advertise for expressions of interest. Hui to select core team. Admin assistance to notify results.
Requires further action	Design survey methodology <ul style="list-style-type: none"> - What is going to be recorded and why imp - How (GPS? Only) - How will data be entered into database? - How will the raw data be analysed? - How will data be put on website? 	Survey form written up. How to use and download data from GPS understood. (We might be able to source an example to use from elsewhere and adjust it)	Purchase GPS Training from GPS expert in use of GPS and downloading data. Excel skills to analysis data. Web skills to put up on website
31 May 2011	Training for Team members	Team members able to use GPS and fill in survey form	Catering and organisation for weekend Noho
31 May 2011	Implement Survey 1 ALSO Commence collecting Video footage for Documentary	Survey 1 results written up and posted on web-site	Part of weekend noho shown above (Friday, Saturday and Sunday) Ability to view footage for quality assessment
15 October 2011	Update EERNZ on progress with research project and provide material to update IFS website	Report provided to EERNZ in format required by Ministry of Science and Innovation	Time allocated to write report
30 November 2011	Implement Survey 2	Survey 2 results written up and posted on web-site	Catering and organisation for weekend Noho
31 December 2011	Advertise for and selection of Scholarship recipients x 2	Student is accepted at Tertiary Institute, and student reports back to Team Members at noho	Selection criteria decided. Selection committee appointed.
15 April 2012	Update EERNZ on progress with research project and provide material to update IFS website	Report provided to EERNZ in format required by Ministry of Science and Innovation	Time allocated to write report
31 May 2012	Implement Survey 3	Review Survey 2 Results, Introduce further training as required, Implement Survey 3 and publish results to web-site	Catering and organisation for weekend Noho
31 August 2012	Beach Visit	Matauranga Maori Day	1 Day

31 August 2012	Review available footage for Documentary	Enough footage for half the documentary time span to be collected by this point	On going
15 October 2012	Update EERNZ on progress with research project and provide material to update IFS website	Report provided to EERNZ in format required by Ministry of Science and Innovation	Time allocated to write report
30 November 2012	Implement Survey 4	Review Survey 3 Results, Introduce further training as required, Implement Survey 4 and publish results to web-site	Catering and organisation for weekend Noho
30 November 2012	Assess scholarship recipients and identify if further financial assistance is beneficial to Muaupoko	Students to report back to group Explore external funding availability if necessary	Half Day Selection committee meeting.
15 April 2013	Update EERNZ on progress with research project and provide material to update IFS website	Report provided to EERNZ in format required by Ministry of Science and Innovation	Time allocated to write report
31 May 2013	Implement Survey 5	Review Survey 4 Results, Introduce further training as required, Implement Survey 5 and publish results to web-site	Catering and organisation for weekend Noho
Dates to be advised	Participate in second round of Mediated Modelling workshops	Workshops completed	Time allocated, transport
30 November 2013	Implement Survey 6	Review Survey 5 Results, Implement Survey 6 and publish results to web-site Complete Documentary Footage and Prepare summary report for web site	Weekend Noho
14 January 2013	Beach Visit and Training session	Matauranga Maori Day and finalise Research Project Results, Hand over to Muaupoko Tribal Authority	1 Day
14 January 2013	Wind up hui	Review Documentary, Results and Story Board.	Editing of footage for documentary

Project Team:

Project Manager – Robert Warrington
Project Kaumatua – Marokopa Matakatea

Team members – 6 Muaupoko to be appointed after expressions of interest have been advertised.

Two members of this 8 member team will be the preferred recipients of the two scholarships available.

An invitation will also be extended to Muapoko iwi to participate if they would like to.

Review Team:

Muaupoko Tribal Authority hapu representatives will be the review team

Risks:

In any project there are risks, but none as interesting as the risk faced on 14 November 1918 when this German mine photographed herewith was swept ashore at Hokio Beach.

The mine was exploded where it lay by shooting at it with a .303 rifle. The explosion left our shellfish a little shell shocked.

Photograph courtesy of Horowhenua Historical Society.

The main risks to this project will be lack of resources to implement the tasks.



Figure 4 - Mine at Hokio Beach 14 November 1918

There are two initiatives that are included in this project, being: Scholarships and Video Recorded data. While these are really nice to have included, it is the data collected that forms the core of the project, and if need be, one or both of these initiatives may be sacrificed.

A further risk worth looking into is the authority to collect kaimoana for sampling. It may require a customary permit to extract certain shellfish. The project manager will consult with Ministry of Fisheries to determine this requirement. Alternatively section 18 of The Reserves and Other Lands Disposal Act 1956 may suffice.

Knowledge Transfer

There will be 5 weekend Noho where training is undertaken and the research is carried out.

In addition there are two one day visits to the beach where the focus is less scientific and more Maturanga Maori oriented.

Training topics will include:

- How to use a G.P.S
- Basic Bio Mass Research
- Identifying shell fish species
- Healthy Environment indicators
- Karakia e te Moana
- Kawa e te Moana
- Detecting pollutants using scientific measures
- Geological Features of the Hokio Beach

Identified assistance may come from:

- Logan Brown – Horizons Regional Council
- Barry Gilliland – Horizons Regional Council
- Two Muaupoko Fisherman
- J Te Tuhi – Toheroa whisperer
- Muaupoko Kaumatua
- S.I.T.O – Seafood Industry Training Organisation



Figure 5 - Hyderabad aground at Hokio Beach (courtesy of Horowhenua Historical Society)

This plan entitled Muaupoko Coastal Research Project is our most significant step towards combining mataurangamaori and western science for the future kaitiaki of our rohemoa. It will be led by Muaupoko and carried out by Muaupoko for the benefit of all along the coast and the Manawatu River.

The plan itself is not intended to be static, but a living, dynamic, document, and indeed some changes will be welcomed as we learn and progress the project.

We welcome also the opportunity to direct funds into professional development via the scholarships offered in this plan.