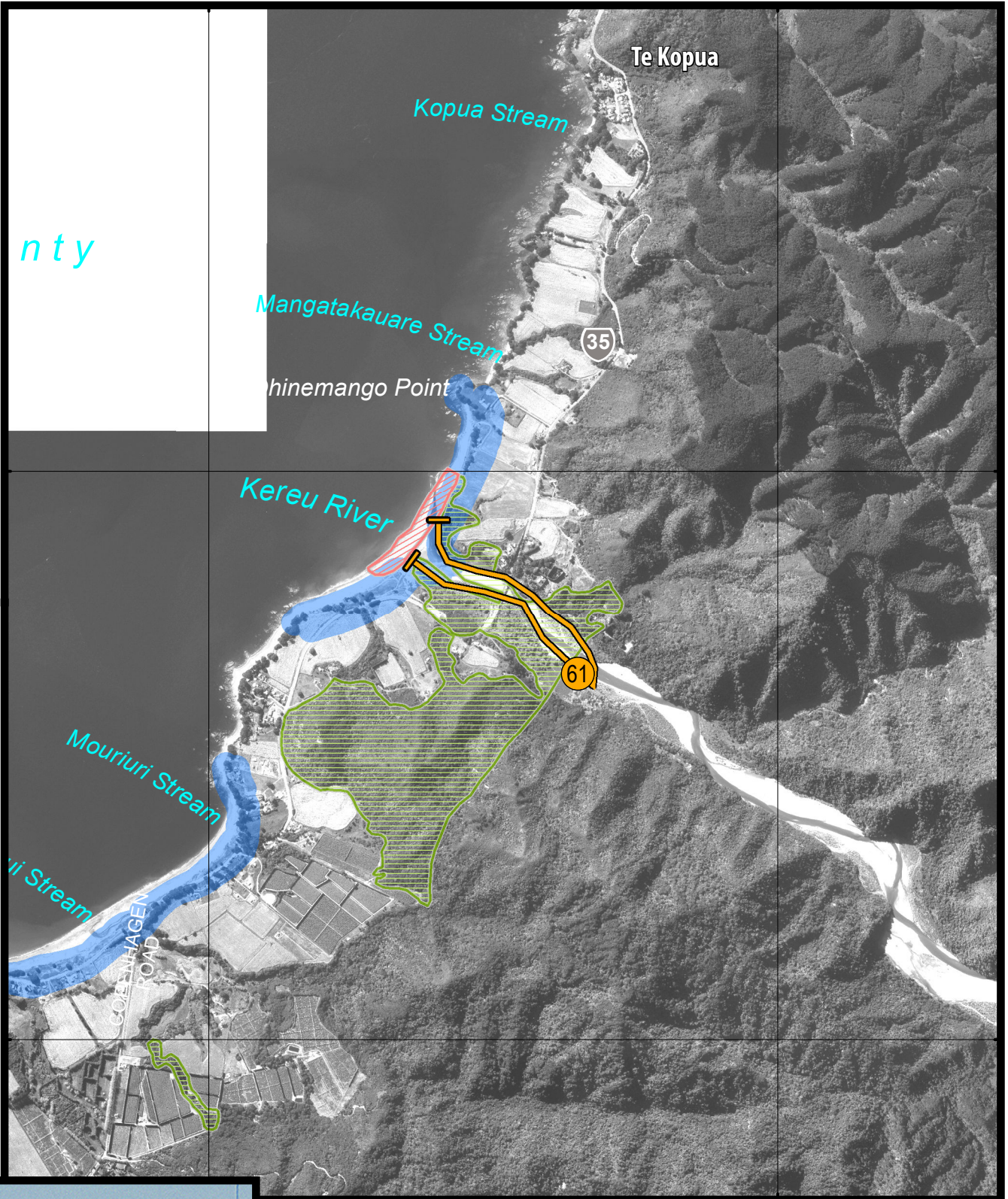


Site 61	Kereu River Mouth	Risk ranking: 3
<p>DESCRIPTION</p> <p>This site is a sand spit enclosed estuary of the Kereru River; generally a low flow river with a small mouth/entrance that is open at higher tide states, forming a lagoon behind the spit. Sand spits and beaches are pebble/cobble.</p>		
Foreshore type	Lagoon, pebble/cobble sand spit and beaches, riparian vegetation	
Map sheets	NZ Topo 50 BD 42 Te Kaha	Chart Number NZ 542
Segments: EBOP R 00280		
<p>At Risk Resources</p> <p>A lagoon area is enclosed behind the sand-spit</p>		
<p>Notes</p> <p>Oil that enters the low energy systems of this estuary will remain for some time. Oil will harm intertidal habitat</p> <p>Actions</p> <ul style="list-style-type: none"> • Consider collection and recovery on sandy areas (near road bridge or southern side of mouth) • Bulldoze entrance closed at high tides and release river water when required (feasibility dependent on river flow) • Clean-up of shore on north side of lagoon • Priority clean-up of entrance sides to limit remobilisation of oil into estuary • Notify wildlife team • Discuss pre-clean-up of intertidal debris - tidal range specific • Consider pre-emptive capture of New Zealand dotterel • Consider pre-emptive capture of wildlife generally • Activation of oiled wildlife response collection teams if required 		
<p>Access</p> <ul style="list-style-type: none"> • State Highway 35 • Access from the north is across farmland • Access from the south is by access roads, one next to road bridge 		

Preferred Response Option Matrix

	Most preferred	Least preferred	Feasibility
Containment and Recovery	High		Deflection booms possible to enhance shoreline clean-up. Bulldoze entrance
On water Recovery	Medium		Logistics an issue
Dispersant Application	Low	Requires escalation to Tier 3 and MNZ approval	Consider dispersant guidelines for off-shore use
Shoreline Clean-up	High		Best option
Natural Recovery	Medium		Some natural recovery may be required.



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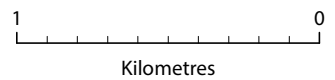


LEGEND

	SCAT Sites
	Shorebird Roosts
	Site District of Local Significance
	Coastal Habitat Preservation Zone
	Beach Accessways
	Area Sensitive to Coastal Hazards
	Area of Significant Conservational Value

SITE 61 Kereu River Mouth

Oil Spill Management Plan



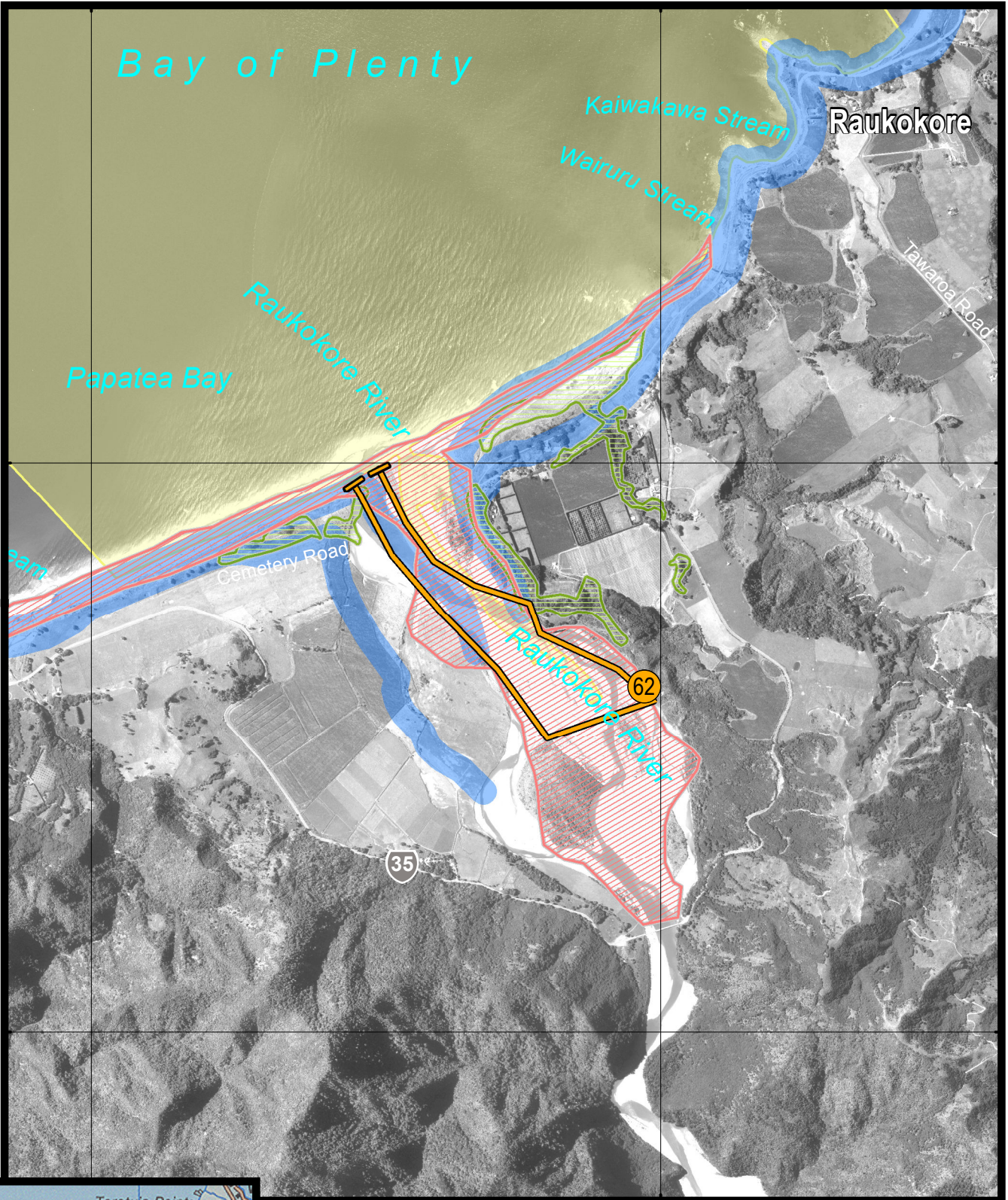
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Site 62	Raukokore River	Risk ranking: 3
<p>DESCRIPTION</p> <p>This site is a sand spit enclosed estuary. Generally a low flow river with a small mouth/entrance that is open at higher tide states, forming a lagoon behind the spit with associated saltmarsh.</p> <p>Sand spits and beaches are pebble/cobble.</p>		
Foreshore type/environmental value	Saltmarsh, Lagoon, All shore segments have “habitat value”	
Map sheets	NZ Topo 50 BD 43 Ruakokore	Chart Number NZ 542
Segments: EBOP R 00320		
<p>At Risk Resources</p> <ul style="list-style-type: none"> • Shorebird feeding areas • Banded dotterel (pohowera) on river flats • Saltmarsh and reeds • Braided river bed • Intertidal areas are identified in the Regional Coastal Plan as areas of significant conservation/cultural value • Cultural sites 		
<p>Notes</p> <p>The estuary at the mouth of the river is a sensitive area, particularly the north eastern lagoon.</p> <p>Oil that does enter the low energy systems of this estuary will remain for some time. Oil will harm saltmarsh habitat.</p> <p>Actions</p> <ul style="list-style-type: none"> • Consider protective booming of north eastern saltmarsh and lagoon • Bulldoze entrance closed at high tides and release river water when required to refresh water. • Shoreline clean-up along the ocean beach • Notify wildlife team • Discuss pre-clean-up of intertidal debris - tidal range specific • Consider pre-emptive capture of wildlife generally • Activation of oiled wildlife response collection teams if required 		
<p>Access</p> <p>Access to beach areas and the Ruakokore Rivermouth is indicated on the topographical map, SH 35: access to the west is across farmland; to the east by access track from Cemetery Road.</p>		

Preferred Response Option Matrix

	Most preferred	Least preferred	Feasibility
Containment and Recovery	High		Deflection booms possible to enhance shoreline clean-up. Bulldoze entrance
On water Recovery	Medium		Logistics an issue
Dispersant Application	Low	Requires escalation to Tier 3 and MNZ approval	Consider dispersant guidelines for off-shore use
Shoreline Clean-up	High		Best option
Natural Recovery	Medium		Some natural recovery may be required.



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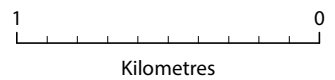


INSET

LEGEND

-  SCAT Sites
-  Shorebird Roosts
-  Site District of Local Significance
-  Coastal Habitat Preservation Zone
-  Beach Accessways
-  Area Sensitive to Coastal Hazards
-  ASCV - Area of Significant Conservational Value

SITE 62 Raukokore River Oil Spill Management Plan



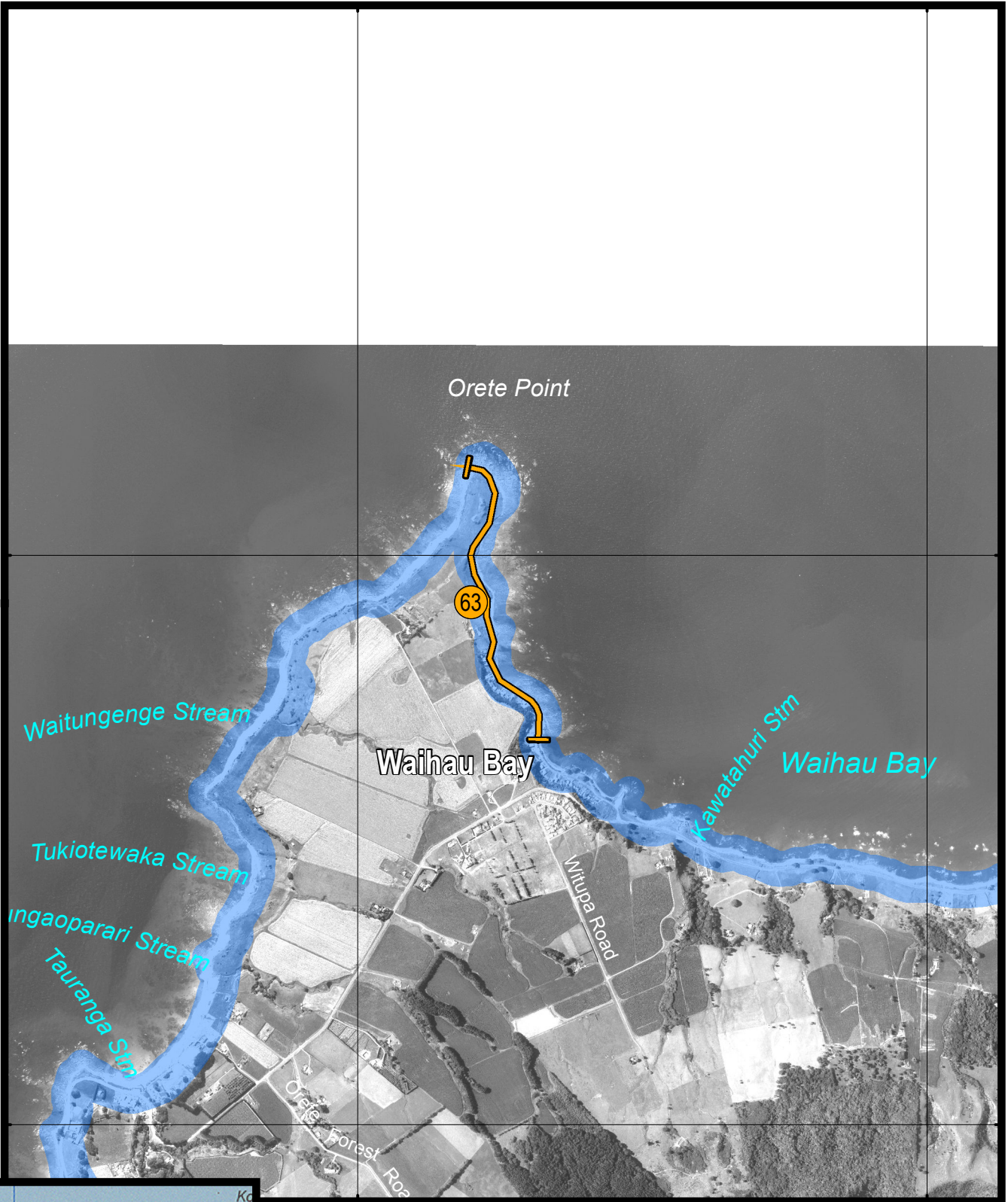
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Site 63		Orete Point	Risk ranking: 3
DESCRIPTION			
The site is located between the Waihou Bay Wharf and Orete Point. The site comprises the inter-tidal platform which has been identified as a significant geological feature.			
Foreshore type/environmental value	Intertidal rock platform Important habitat for flora and fauna		
Map sheets	NZ Topo 50 BD 43 Ruakokore	Chart Number NZ 542	
Segments:			
At Risk Resources			
<ul style="list-style-type: none"> • Intertidal areas are identified in the Regional Coastal Plan as areas of significant conservation/cultural value • Cultural sites – Kaimoana 			
Notes			
<ul style="list-style-type: none"> • Where possible, oil should be prevented entering the sensitive areas. Prevention of oil reaching the platforms may best be achieved by the use of dispersants offshore • Limited communication 			
Access			
Road access is via State Highway 35. The nearest boat launching ramp is Waihou Bay adjacent to the Post Office			
Vehicle access to the point is restricted to private access. Permission from the owner would be required to obtain access to the Point			

Preferred Response Option Matrix

	Most preferred	Least preferred	Feasibility
Containment and Recovery	High		Shoreline not conducive to this
On water Recovery	Medium		Logistics an issue
Dispersant Application	High	Requires escalation to Tier 3 and MNZ approval	Off-shore use good option
Shoreline Clean-up	High		Rocky tidal foreshore area
Natural Recovery	Medium		Natural recovery may be required due to high intensity coastline



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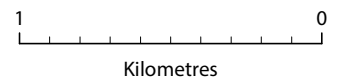


LEGEND

-  SCAT Sites
-  Shorebird Roosts
-  Site District of Local Significance
-  Coastal Habitat Preservation Zone
-  Beach Accessways
-  Area Sensitive to Coastal Hazards
-  Area of Significant Conservational Value

SITE 63 Orete Point

Oil Spill Management Plan



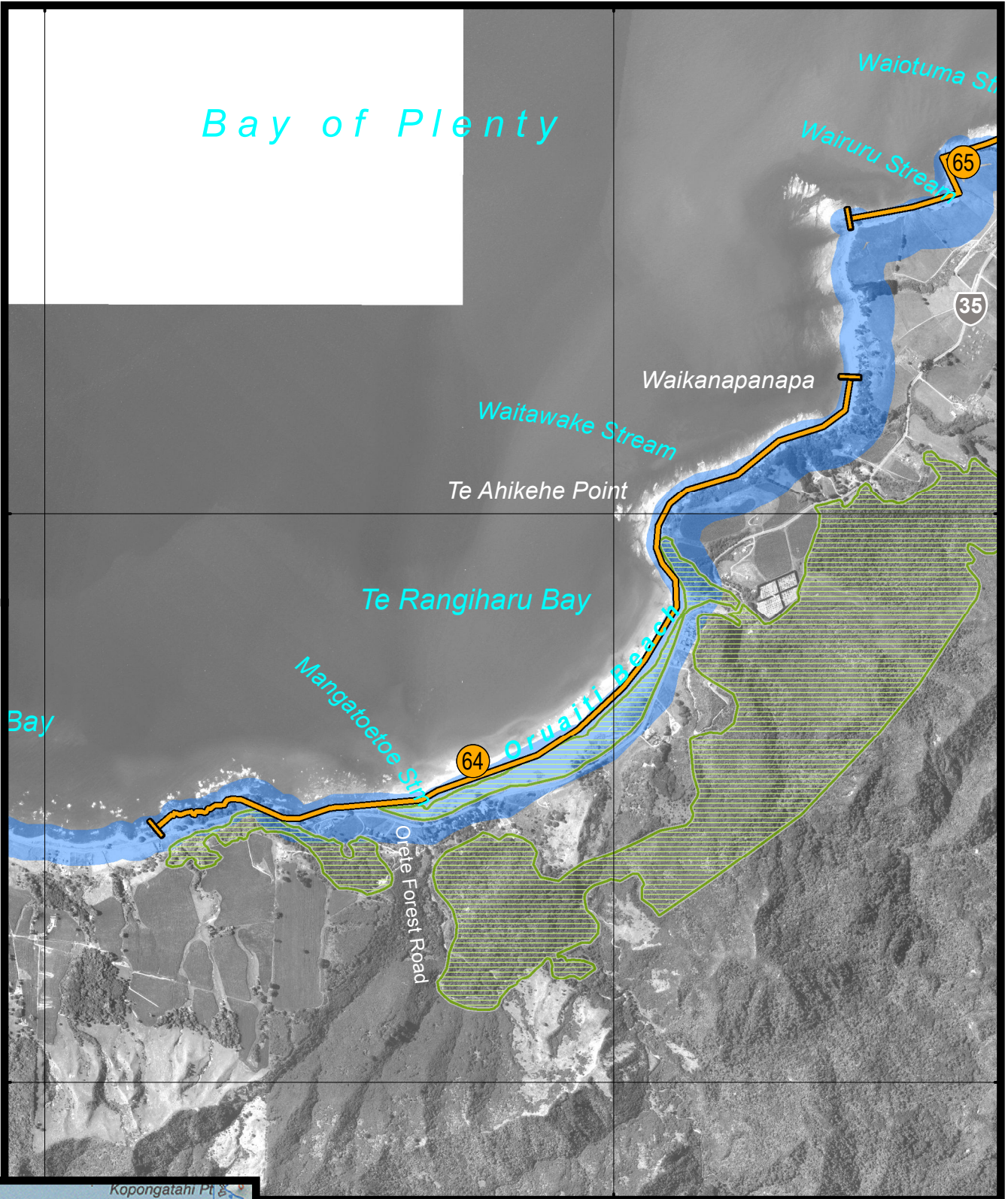
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Site 64	Oruatiti and Waikanapanapa	Risk ranking: 3
DESCRIPTION		
The site is located to the east of Waihou Bay. The site comprises of wave cut platforms which have significant coastal landscape values.		
Foreshore type/environmental value	Intertidal rock platform important habitat for flora and fauna	
Map sheets	NZ Topo 50 BD 43 Ruakokore	Chart Number NZ 542
Segments:		
At Risk Resources		
<ul style="list-style-type: none"> • Intertidal areas are identified in the Regional Coastal Plan as areas of significant conservation/cultural value • Cultural sites – Kaimoana 		
Notes		
<ul style="list-style-type: none"> • Where possible, oil should be prevented entering the sensitive areas. Prevention of oil reaching the platforms may best be achieved by the use of dispersants offshore • These platforms would trap any oil that is washed onto them in the pools formed by the platforms • Limited communications 		
Access		
Road access to the sites is via SH 35 as indicated on the topographical map. The nearest boat launching ramp is Waihou Bay.		

Preferred Response Option Matrix

	Most preferred	Least preferred	Feasibility
Containment and Recovery	High		Shoreline not conducive to this
On water Recovery	Medium		Logistics an issue
Dispersant Application	High	Requires escalation to Tier 3 and MNZ approval	Off-shore use good option
Shoreline Clean-up	High		Rocky tidal foreshore area
Natural Recovery	Medium		Natural recovery may be required due to high intensity coastline










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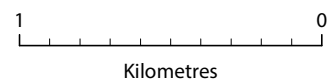
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LEGEND

-  SCAT Sites
-  Shorebird Roosts
-  Site District of Local Significance
-  Coastal Habitat Preservation Zone
-  Beach Accessways
-  Area Sensitive to Coastal Hazards
-  ASCV - Area of Significant Conservational Value

SITE 64 Oruaiti and Waikanapanapa Oil Spill Management Plan



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