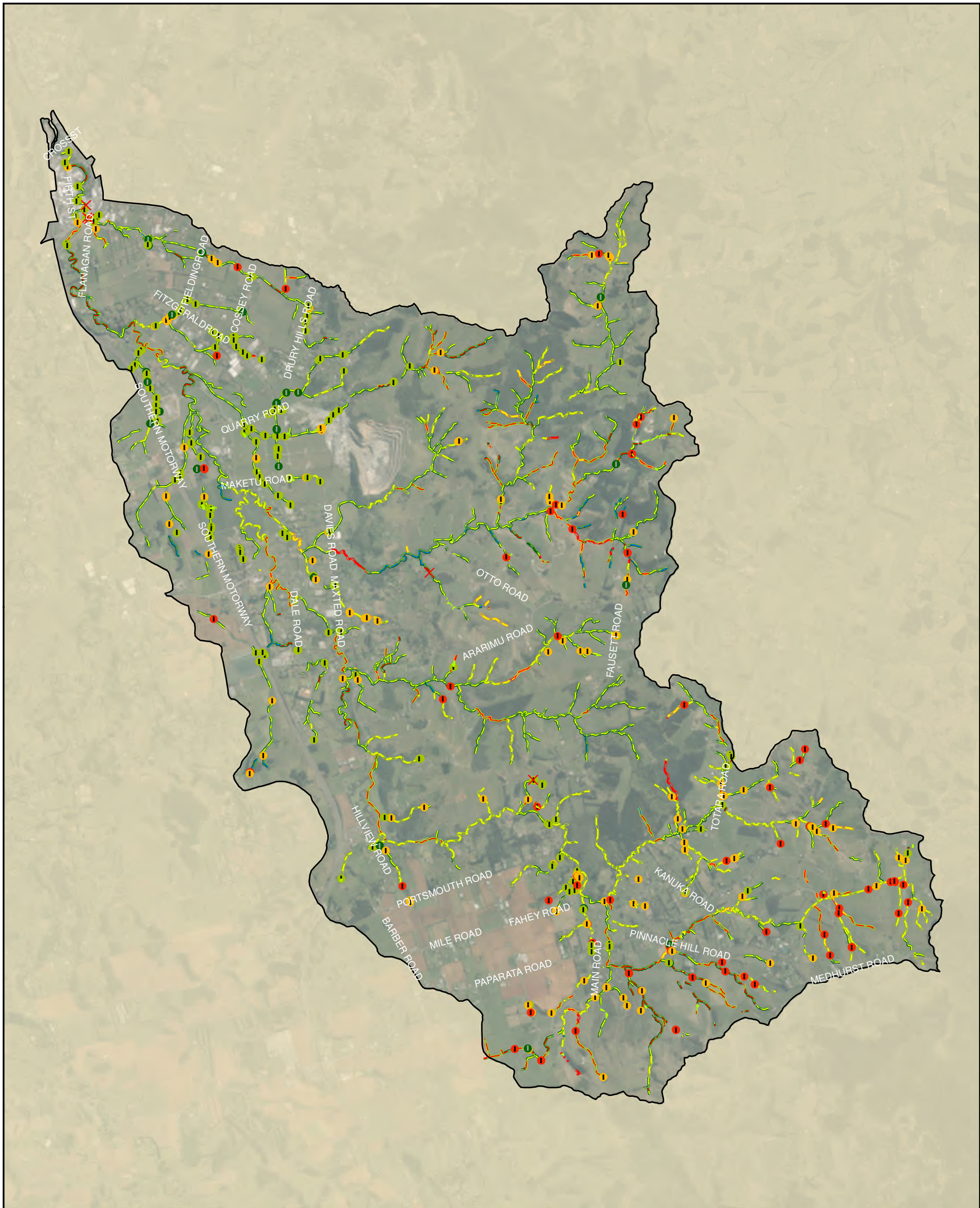


Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



Document Path: F:\FELIX_DATA\SIGHT\AA3135 Hingaia WAR\MAPS\MAP_04_Eng_Assets.mxd

HINGAIA CATCHMENT STREAM SURVEY



Erosion Scars

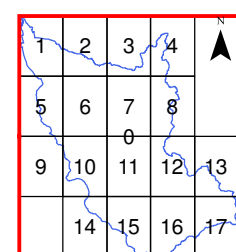
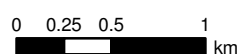
	0-20%
	21-40%
	41-60%
	>60%

Bank Stability

	Excellent
	Good
	Fair
	Poor
	Wetland

Inlet/Outlet Erosion

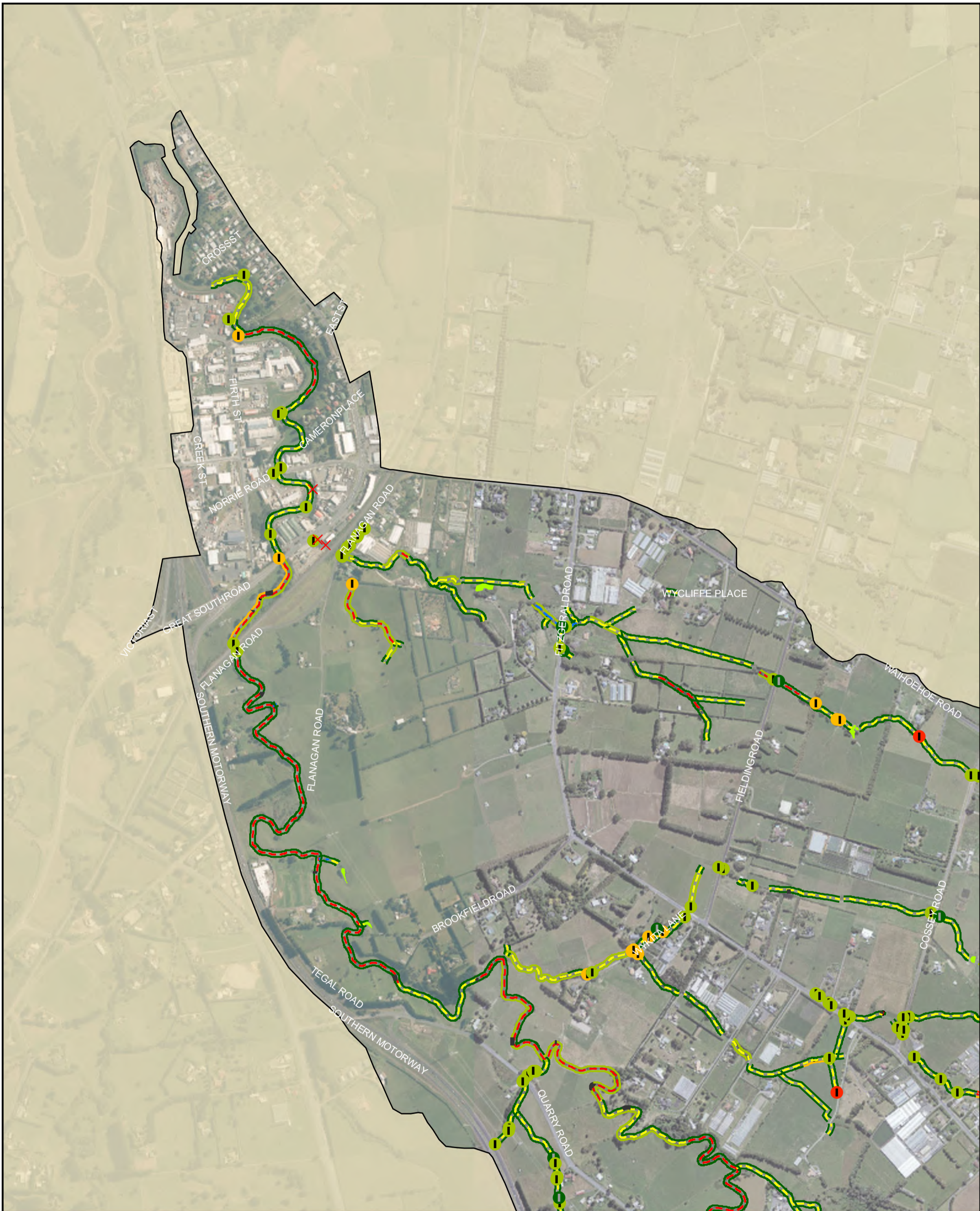
	None
	Slight
	Moderate
	Severe
	Could not locate



Page 1 out of 18

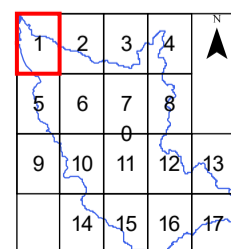
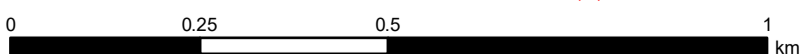
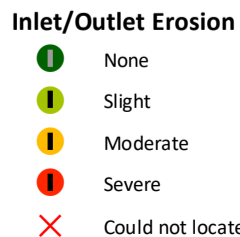
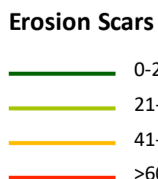
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 Checked: AS
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Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



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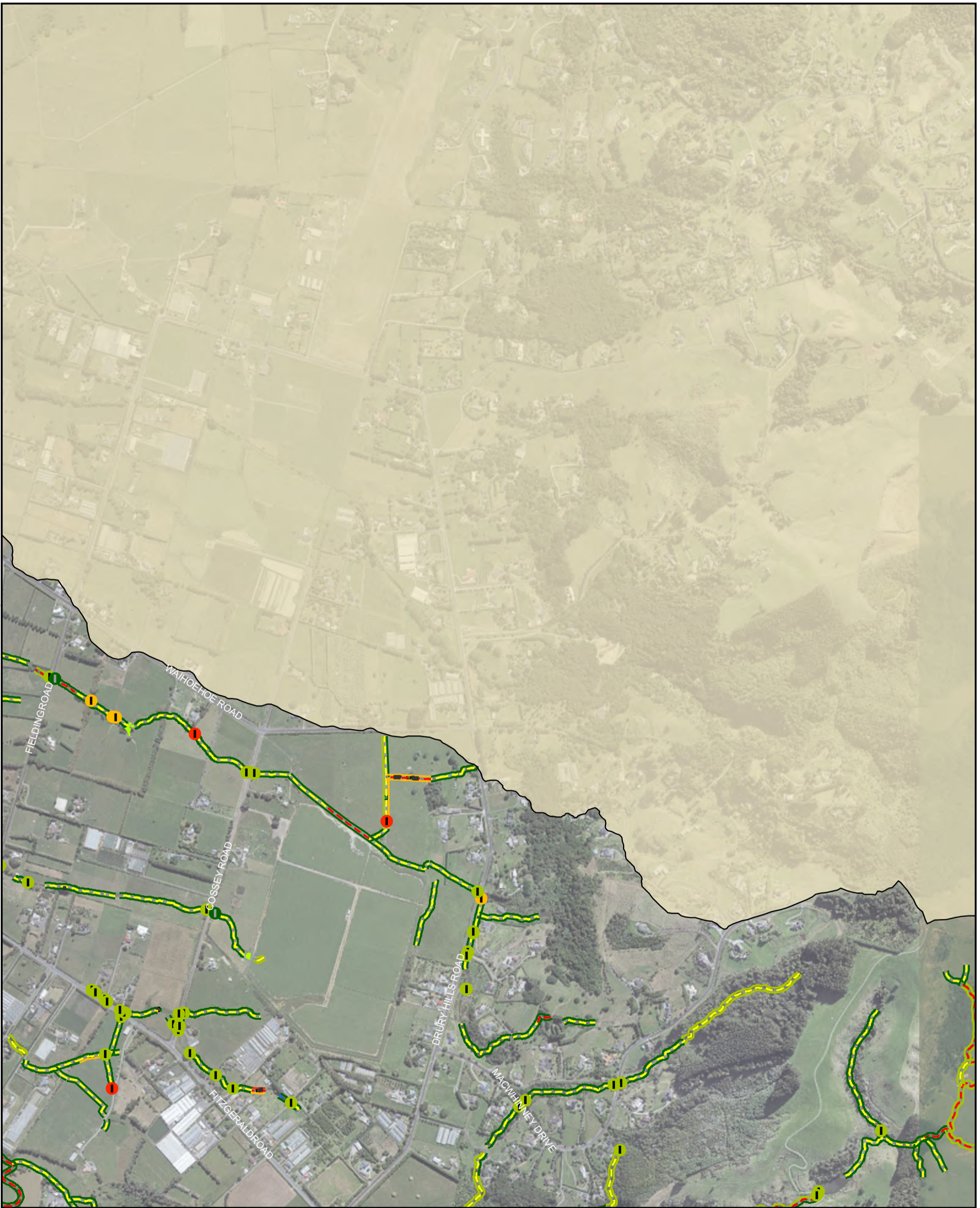
HINGAIA CATCHMENT STREAM SURVEY



Page 2 out of 18

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HINGAIA CATCHMENT STREAM SURVEY



Erosion Scars

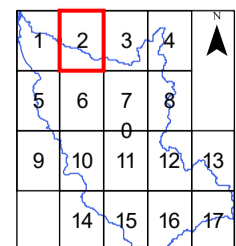
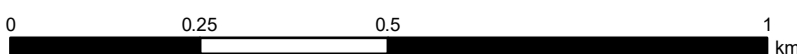
- 0-20%
- 21-40%
- 41-60%
- >60%
- Erosion Hotspot

Bank Stability

- - - Excellent
- - - Good
- - - Fair
- - - Poor
- Wetland

Inlet/Outlet Erosion

- None
- Slight
- Moderate
- Severe



Document Path: F:\FELIX_DATA\SIGHTAA3135_Hingaia_WARIMAP\MAP_04_Eng_Assets.mxd



HINGAIA CATCHMENT STREAM SURVEY



Erosion Scars

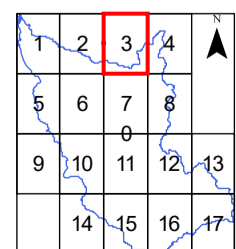
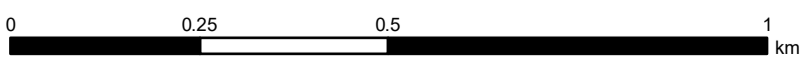
- 0-20%
- 21-40%
- 41-60%
- >60%
- Erosion Hotspot

Bank Stability

- - - Excellent
- - - Good
- - - Fair
- - - Poor
- Wetland

Inlet/Outlet Erosion

- None
- Slight
- Moderate
- Severe



Page 4 out of 18

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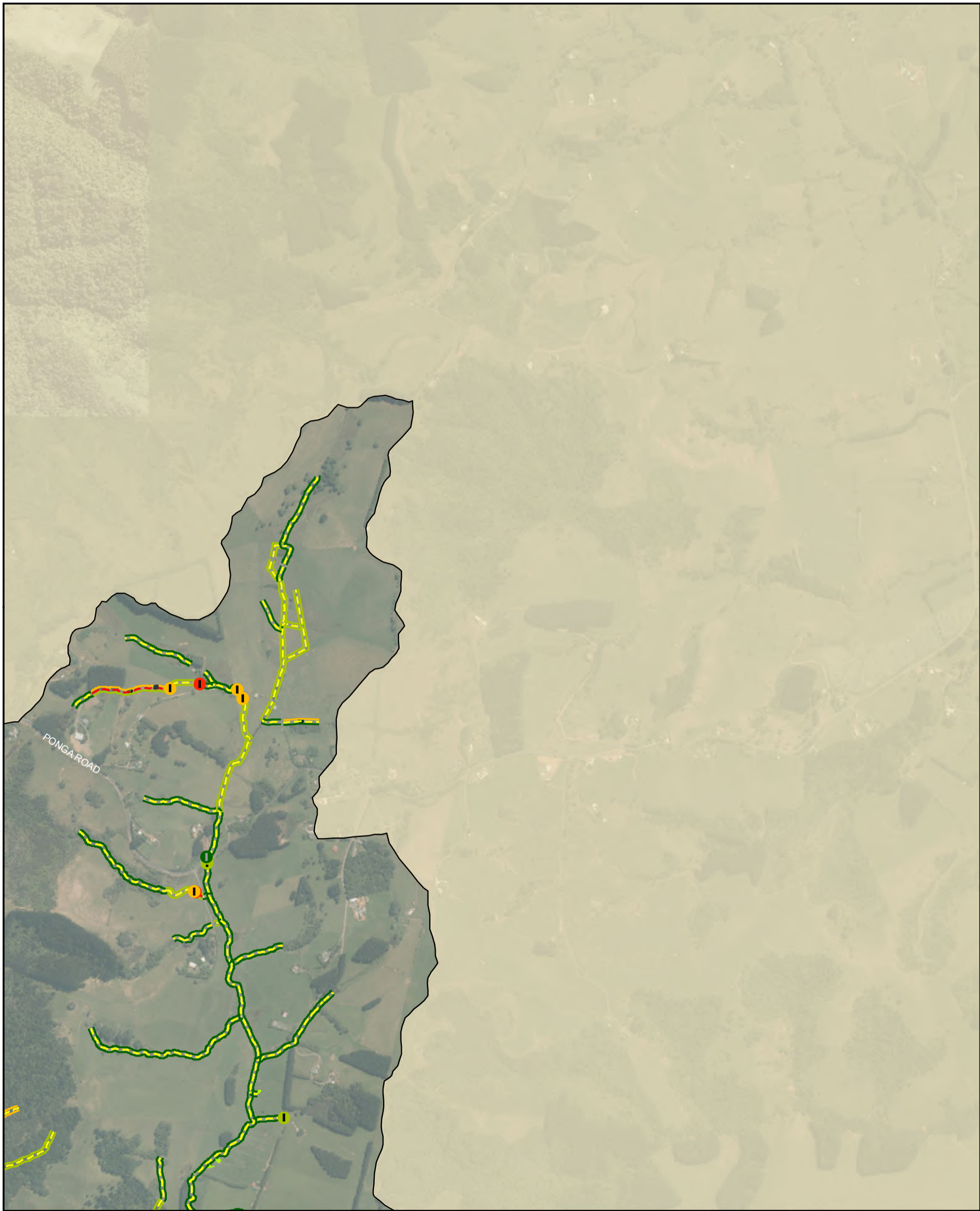
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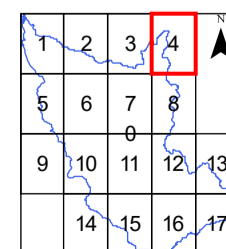
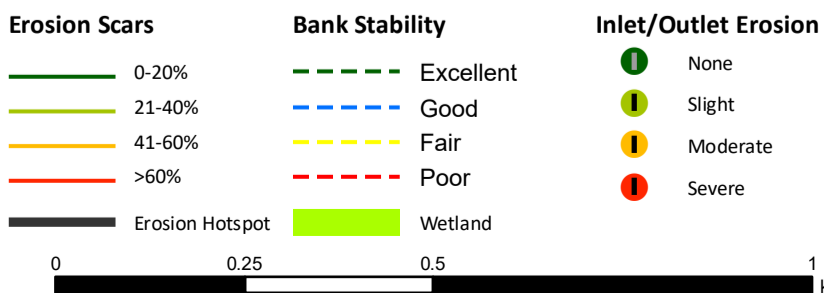
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HINGAIA CATCHMENT STREAM SURVEY



Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



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HINGAIA CATCHMENT STREAM SURVEY



Erosion Scars

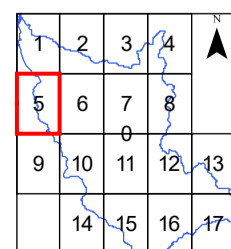
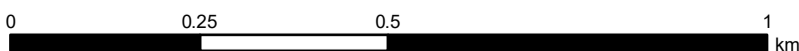
- 0-20%
- 21-40%
- 41-60%
- >60%
- Erosion Hotspot

Bank Stability

- Excellent
- Good
- Fair
- Poor
- Wetland

Inlet/Outlet Erosion

- None
- Slight
- Moderate
- Severe



Page 6 out of 18

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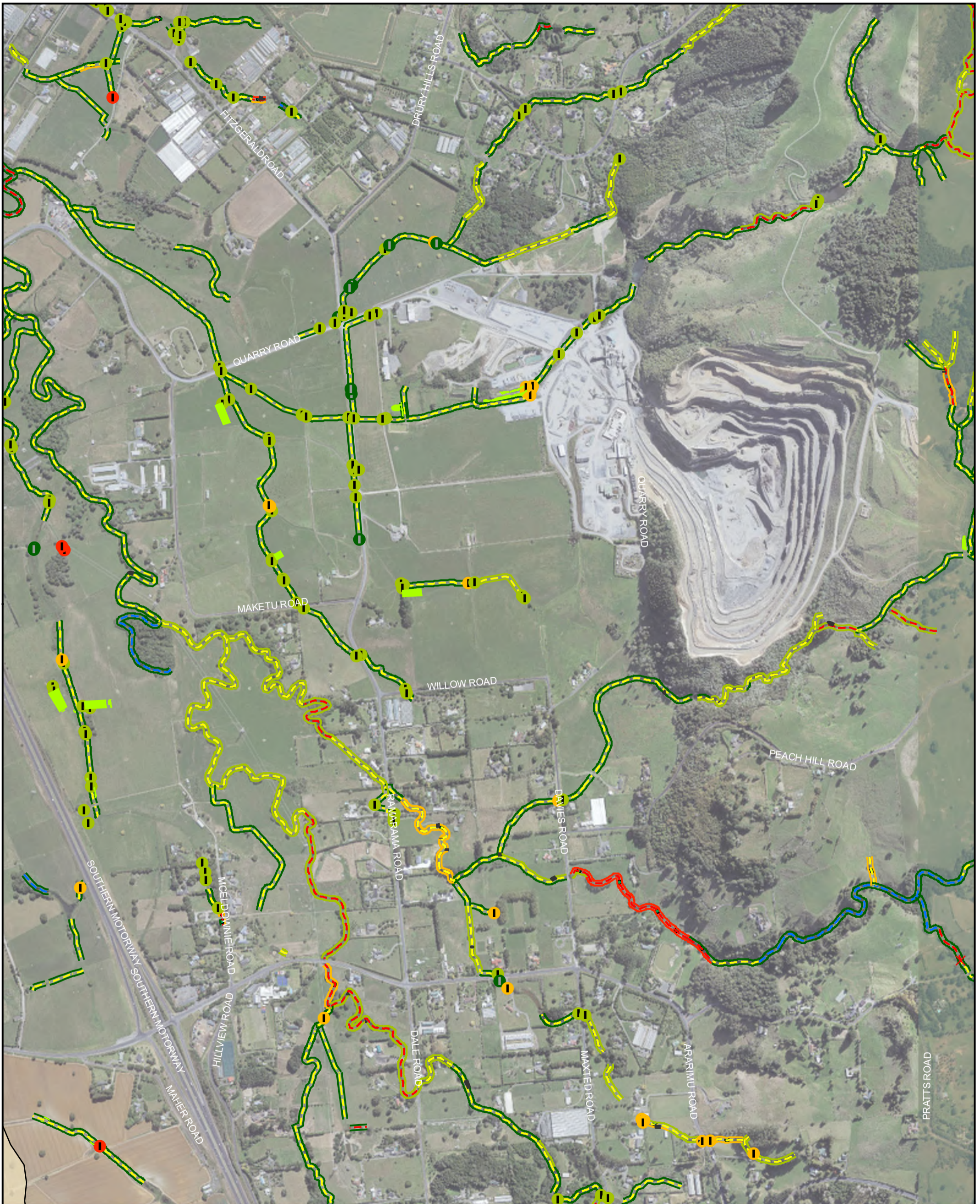
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Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



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HINGAIA CATCHMENT STREAM SURVEY



Erosion Scars

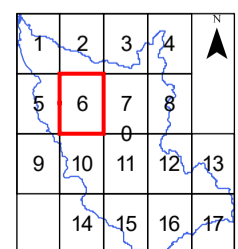
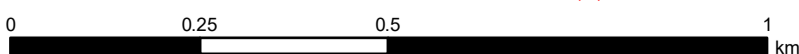
- 0-20%
- 21-40%
- 41-60%
- >60%
- Erosion Hotspot

Bank Stability

- - - Excellent
- - - Good
- - - Fair
- - - Poor
- Wetland

Inlet/Outlet Erosion

- None
- Slight
- Moderate
- Severe
- × Could not locate



Page 7 out of 18

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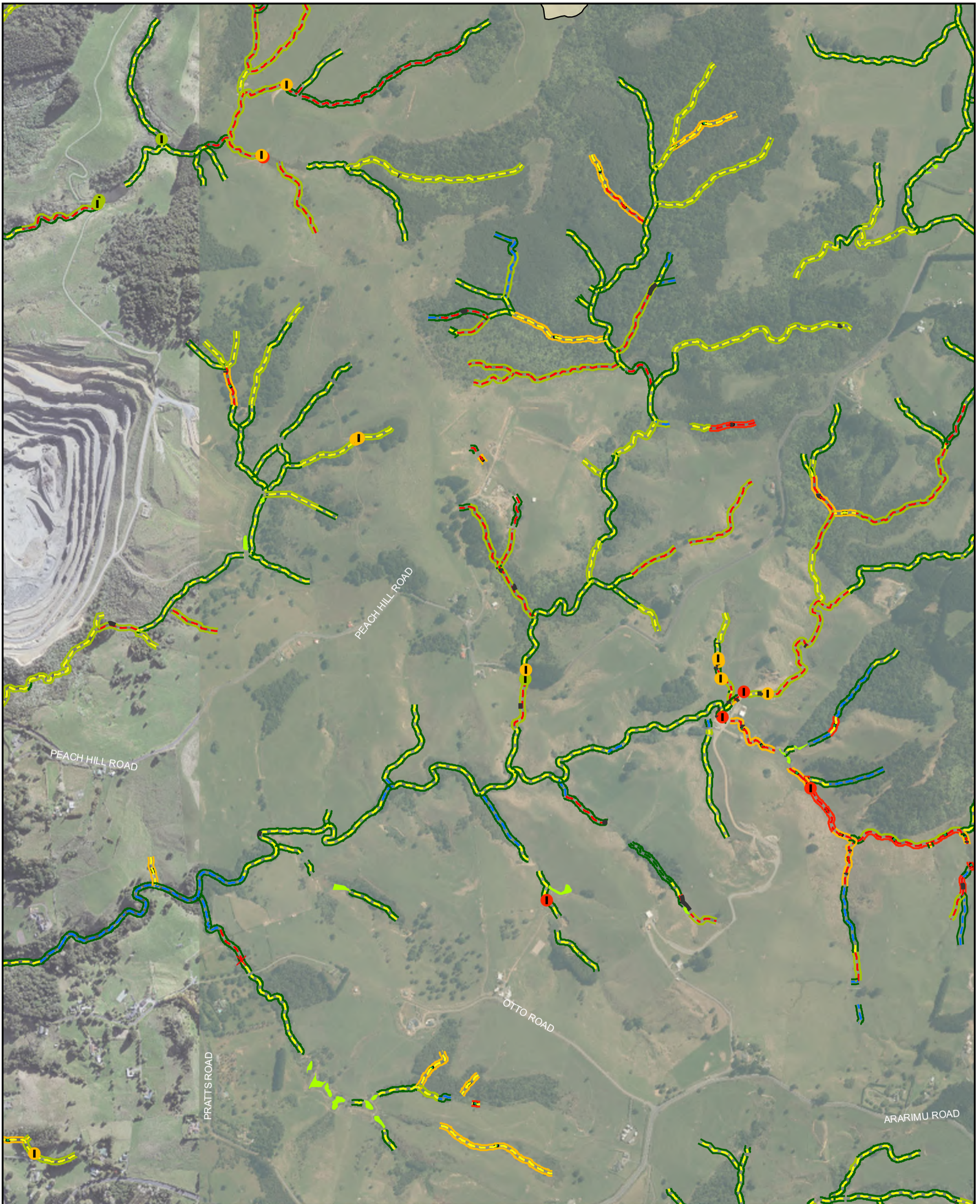
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HINGAIA CATCHMENT STREAM SURVEY



Erosion Scars

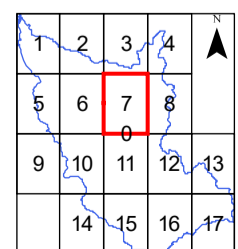
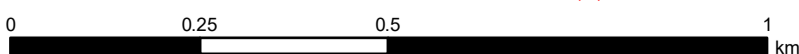
- 0-20%
- 21-40%
- 41-60%
- >60%
- Erosion Hotspot

Bank Stability

- - - Excellent
- - - Good
- - - Fair
- - - Poor
- Wetland

Inlet/Outlet Erosion

- None
- Slight
- Moderate
- Severe
- × Could not locate



Page 8 out of 18

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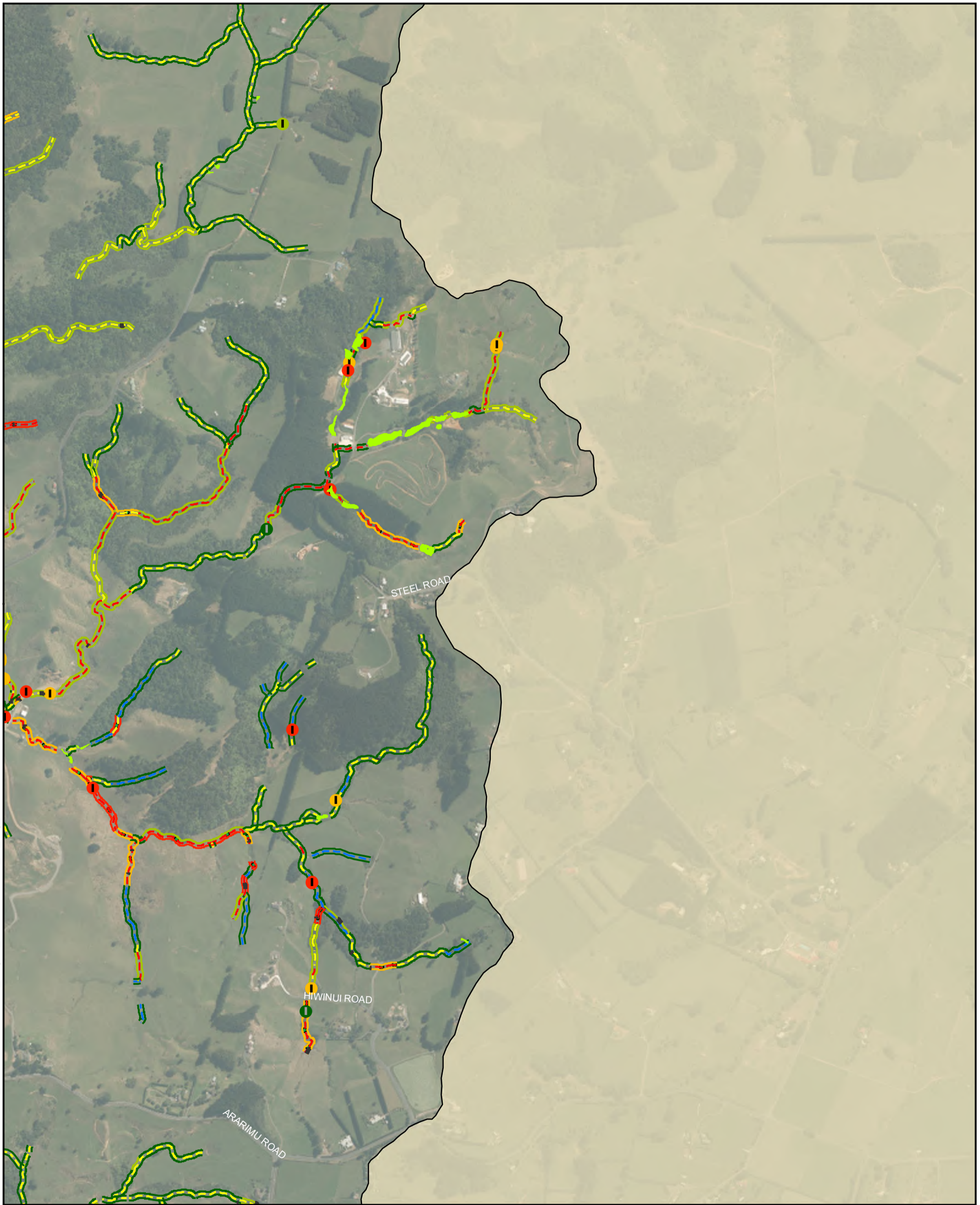
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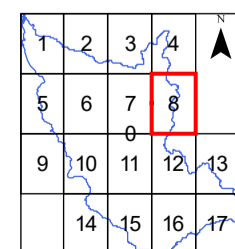
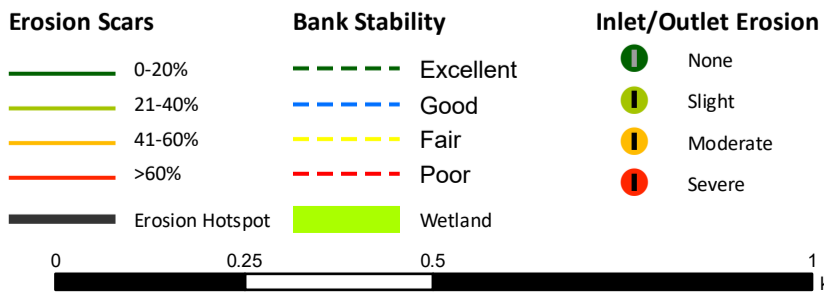
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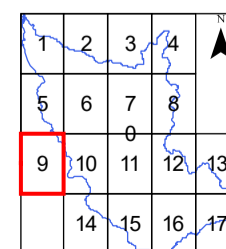
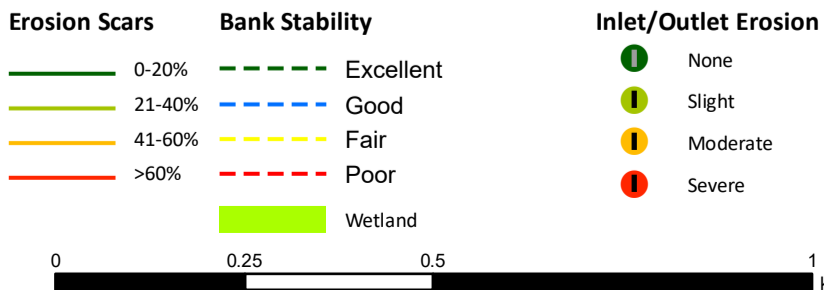


Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



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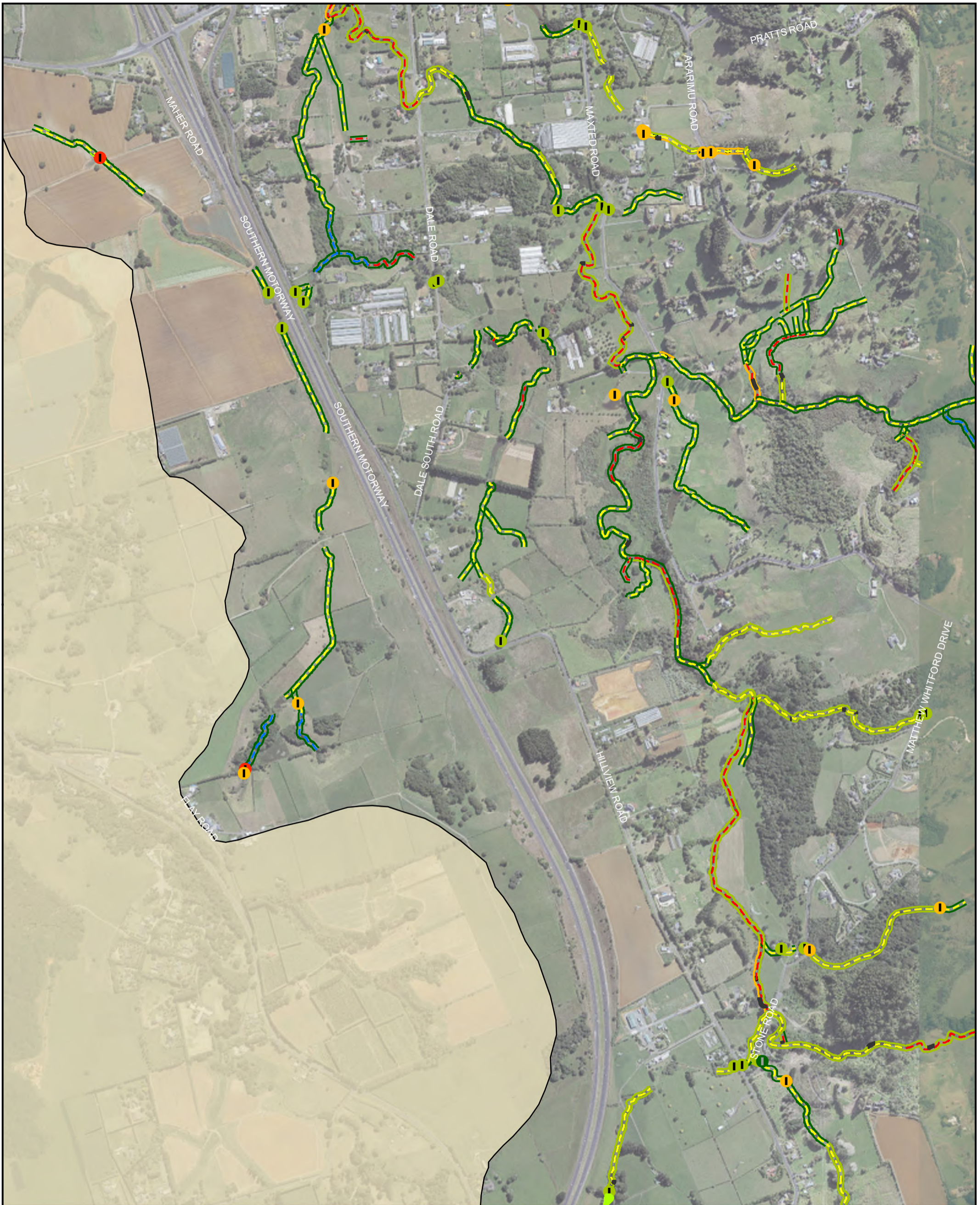
HINGAIA CATCHMENT STREAM SURVEY



Page 10 out of 18

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Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



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HINGAIIA CATCHMENT STREAM SURVEY



Erosion Scars

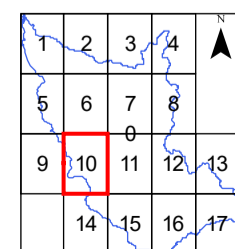
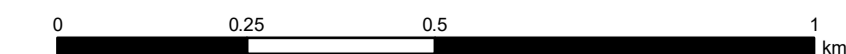
- 0-20%
- 21-40%
- 41-60%
- >60%

Bank Stability

- - - Excellent
- - - Good
- - - Fair
- - - Poor
- Wetland

Inlet/Outlet Erosion

- None
- Slight
- Moderate
- Severe



Page 11 out of 18

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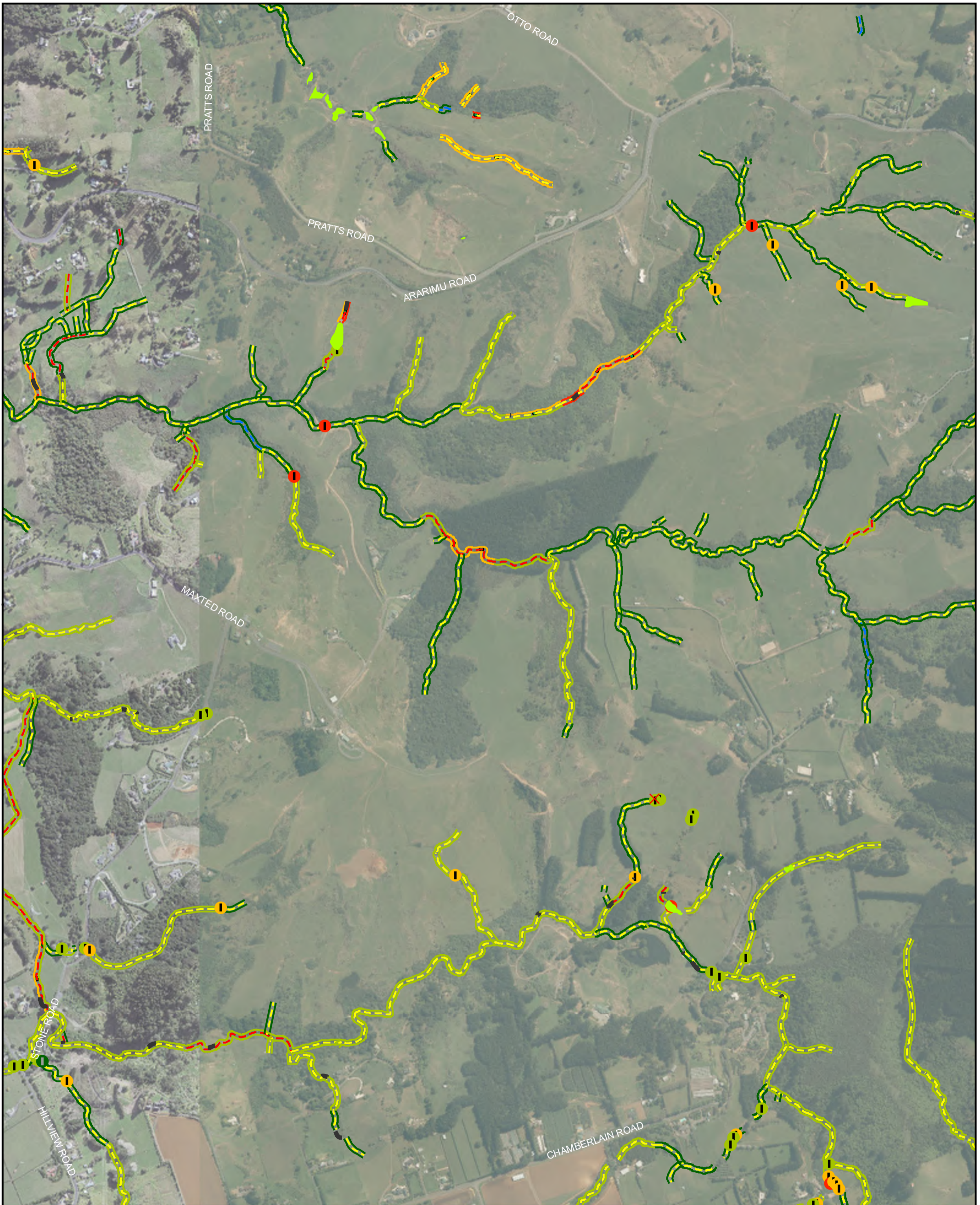
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Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



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HINGAIA CATCHMENT STREAM SURVEY



Erosion Scars

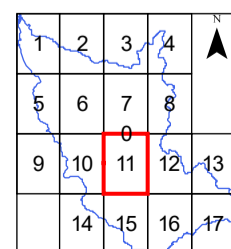
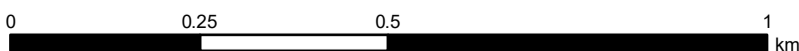
- 0-20%
- 21-40%
- 41-60%
- >60%
- Erosion Hotspot

Bank Stability

- - - Excellent
- - - Good
- - - Fair
- - - Poor
- Wetland

Inlet/Outlet Erosion

- None
- Slight
- Moderate
- Severe
- ✗ Could not locate



Page 12 out of 18

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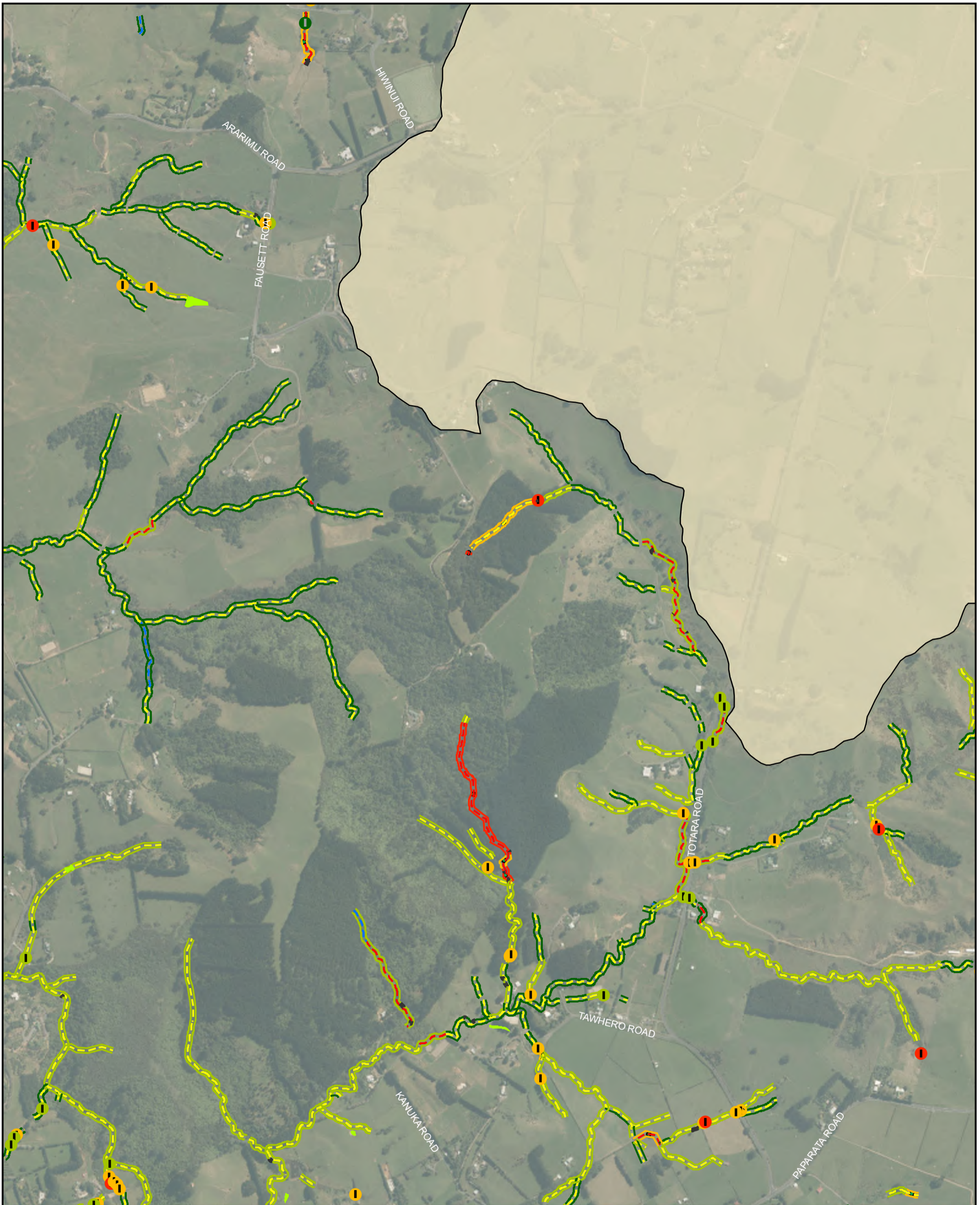
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Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



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HINGAIA CATCHMENT STREAM SURVEY



Erosion Scars

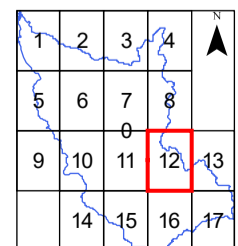
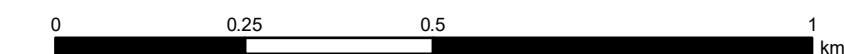
- 0-20%
- 21-40%
- 41-60%
- >60%

Bank Stability

- - - Excellent
- - - Good
- - - Fair
- - - Poor
- Wetland

Inlet/Outlet Erosion

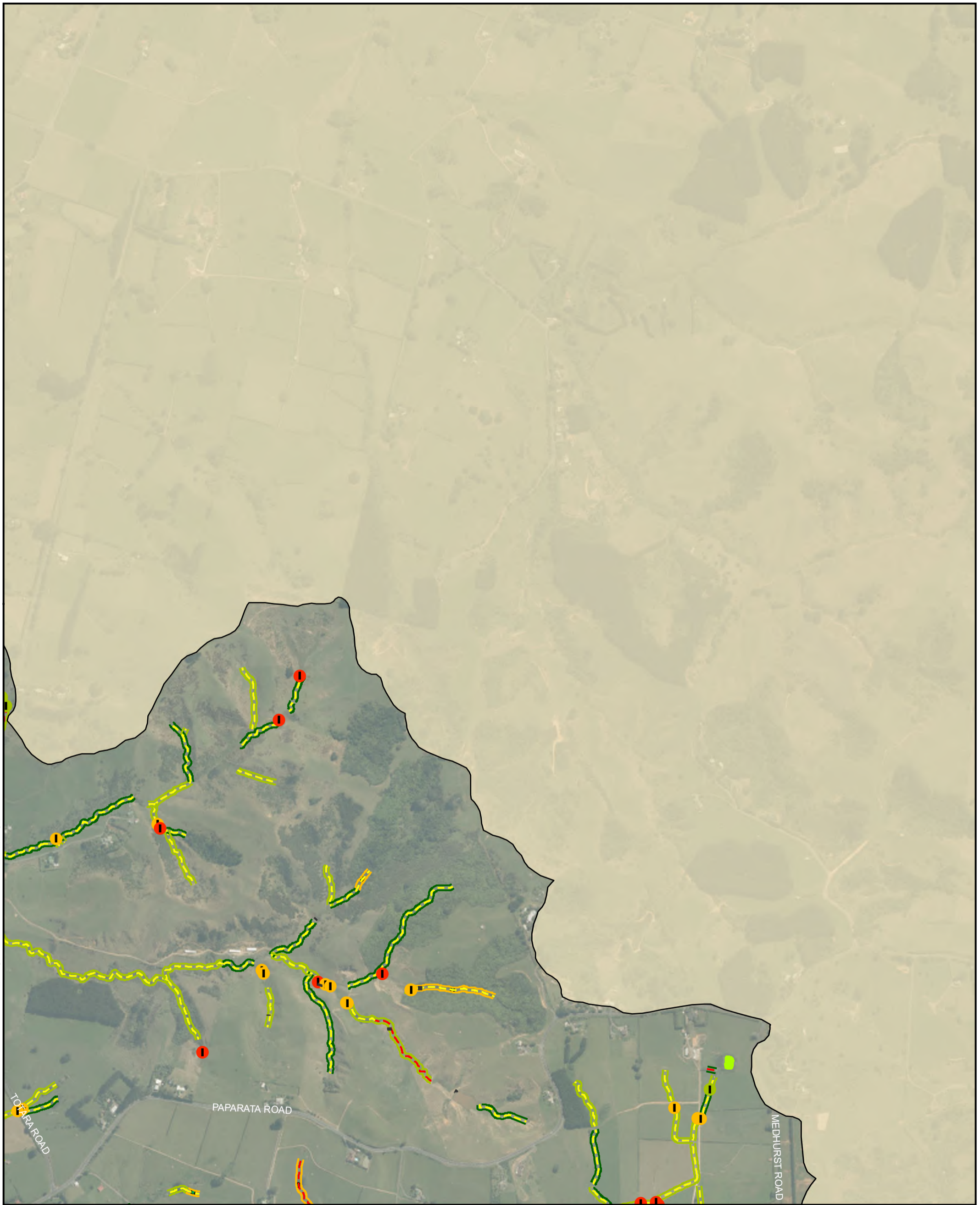
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- Slight
- Moderate
- Severe



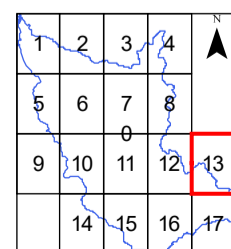
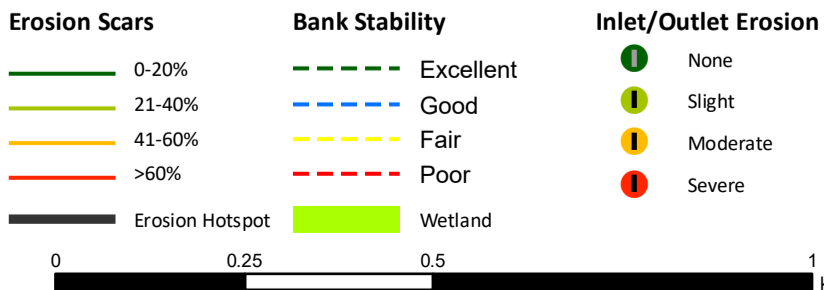
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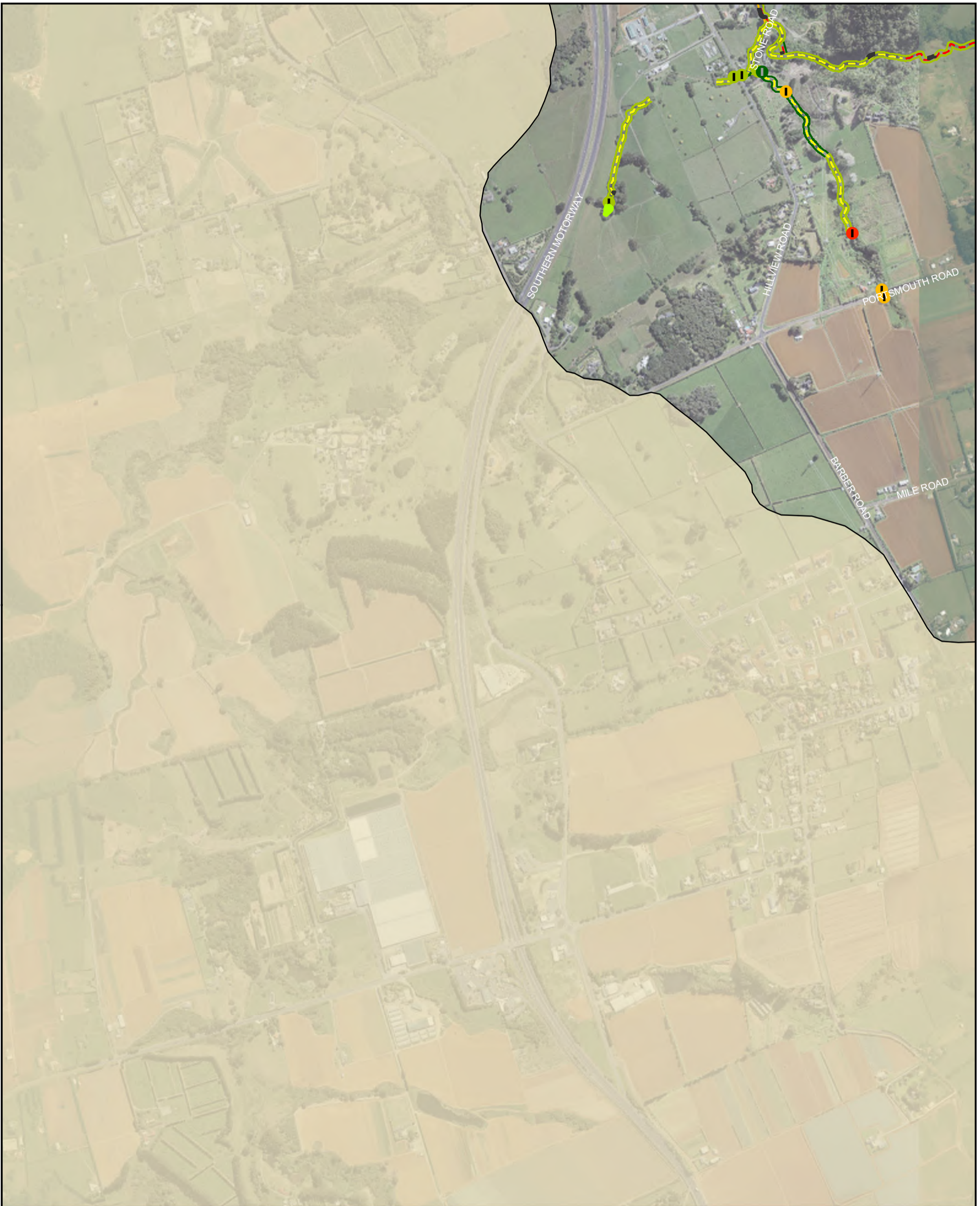
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HINGAIA CATCHMENT STREAM SURVEY



Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



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HINGAIA CATCHMENT STREAM SURVEY



Erosion Scars

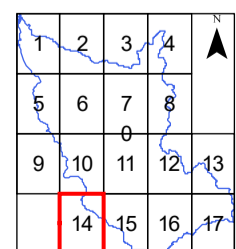
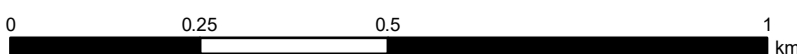
- 0-20%
- 21-40%
- 41-60%
- >60%
- Erosion Hotspot

Bank Stability

- - - Excellent
- - - Good
- - - Fair
- - - Poor
- Wetland

Inlet/Outlet Erosion

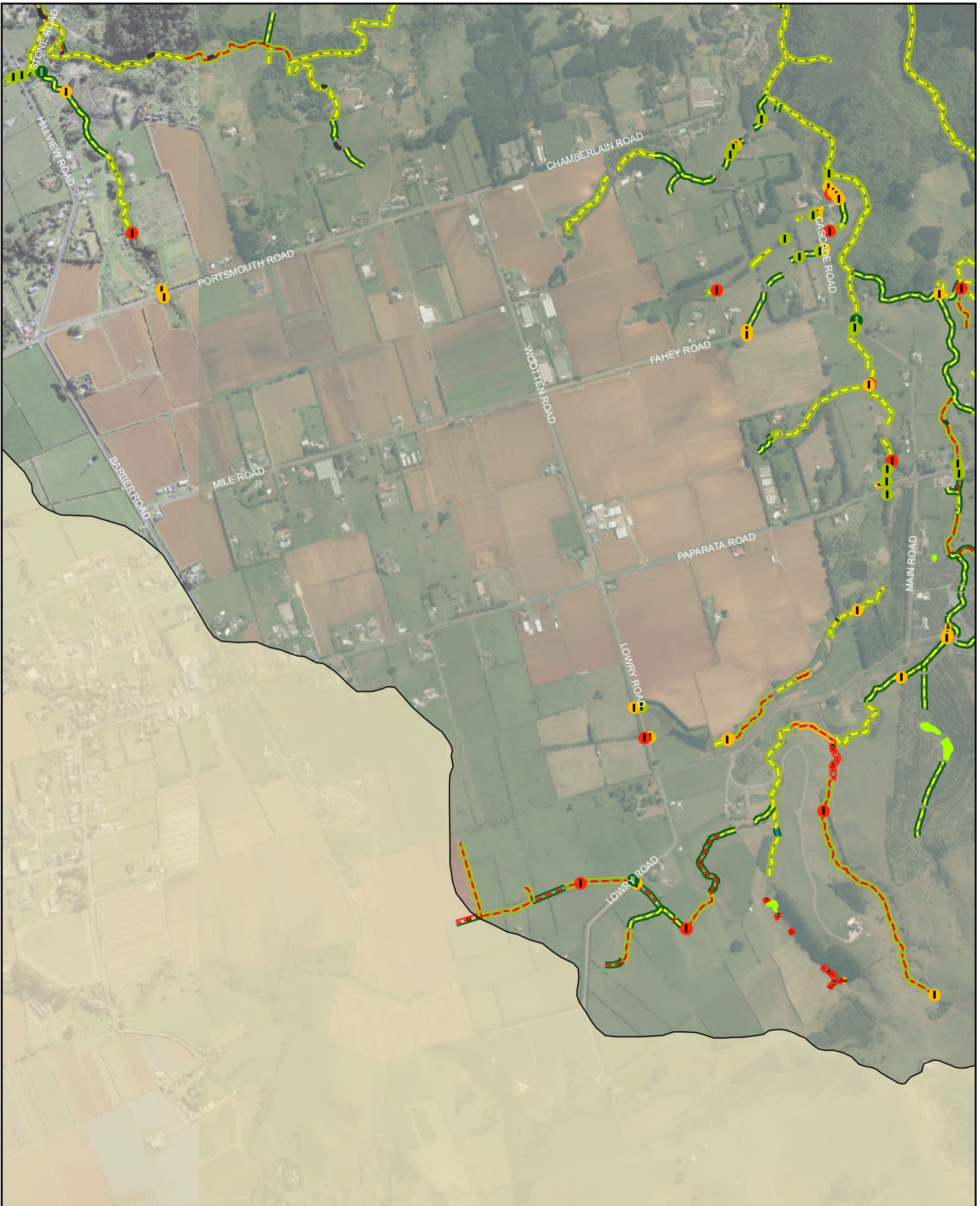
- None
- Slight
- Moderate
- Severe



Page 15 out of 18

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Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



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HINGAIA CATCHMENT STREAM SURVEY



Erosion Scars

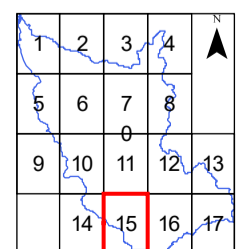
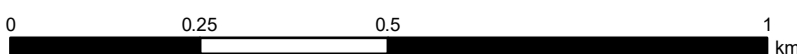
- 0-20%
- 21-40%
- 41-60%
- >60%
- Erosion Hotspot

Bank Stability

- - - Excellent
- - - Good
- - - Fair
- - - Poor
- Wetland

Inlet/Outlet Erosion

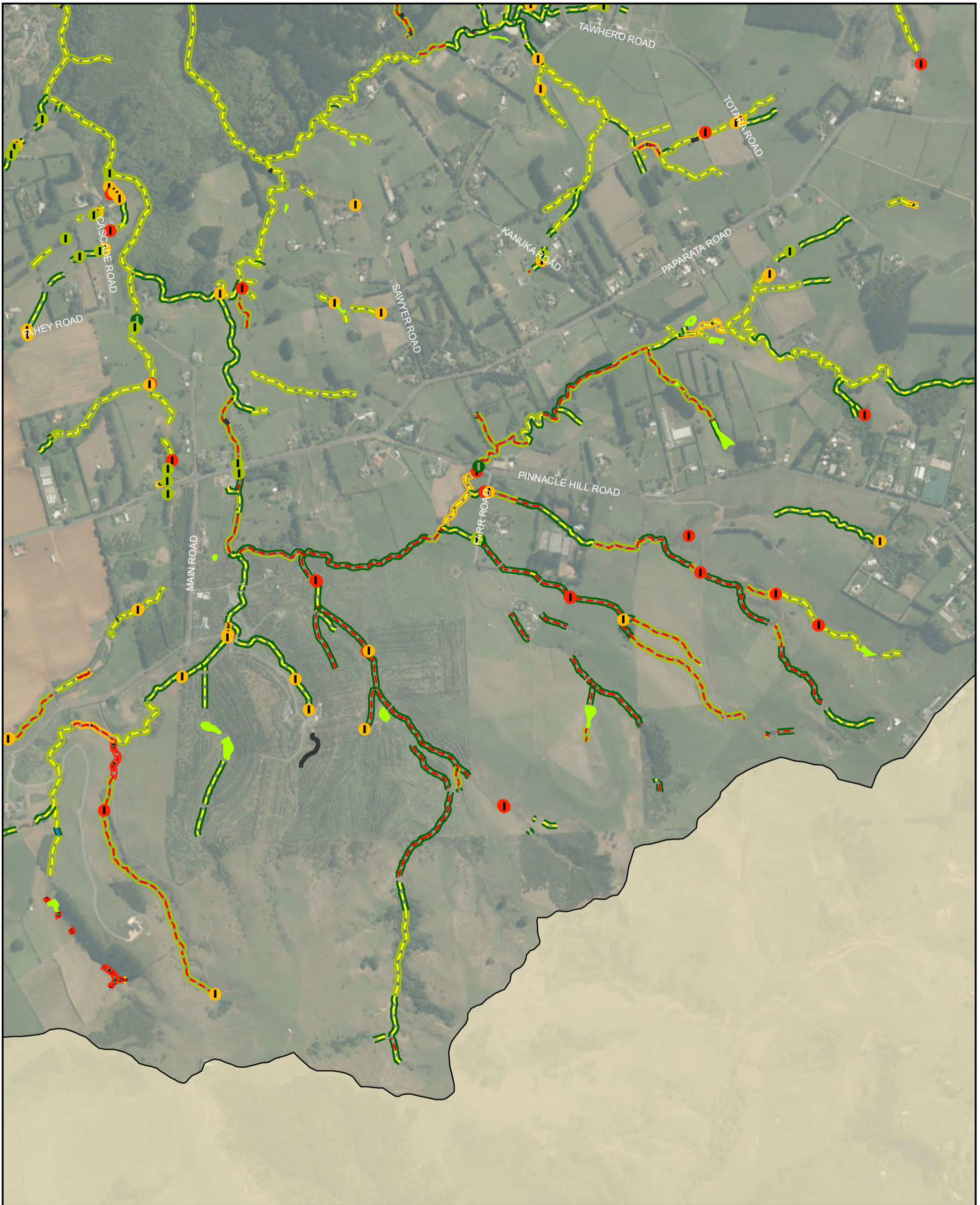
- None
- Slight
- Moderate
- Severe



Page 16 out of 18

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 Approved: KB

Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



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HINGAIIA CATCHMENT STREAM SURVEY



Erosion Scars

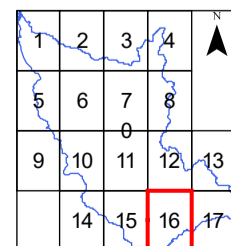
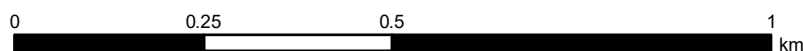
- 0-20%
- 21-40%
- 41-60%
- >60%
- Erosion Hotspot

Bank Stability

- Excellent
- Good
- Fair
- Poor
- Wetland

Inlet/Outlet Erosion

- None
- Slight
- Moderate
- Severe



Page 17 out of 18

Date Created: 4/07/2018

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Checked: AS

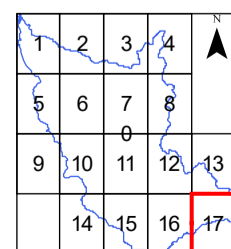
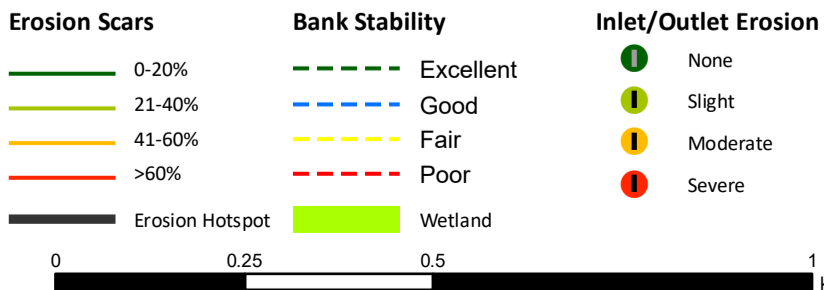
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Map 4: Engineering Asset Locations, Stream Bank & Outfall Erosion



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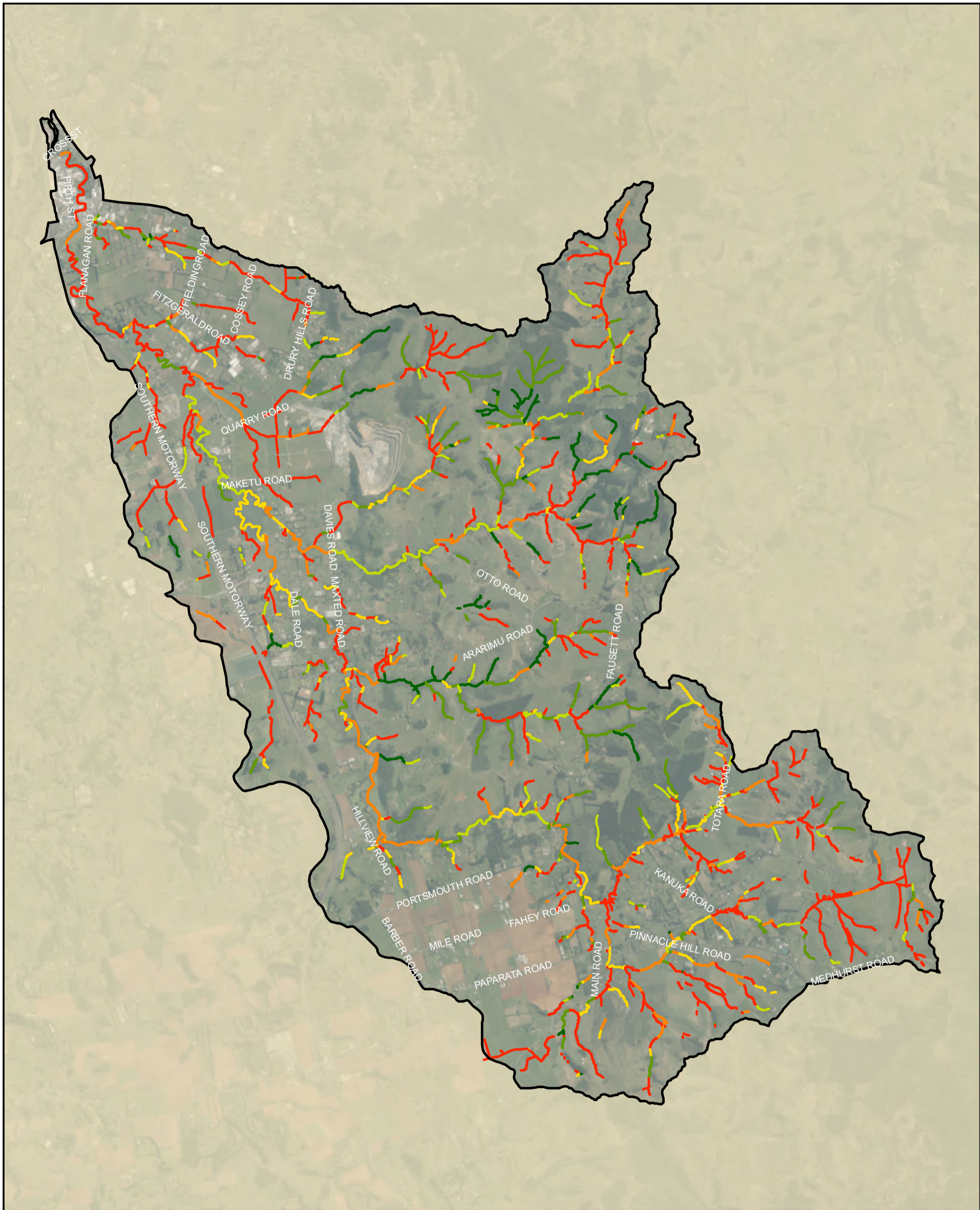
HINGAIA CATCHMENT STREAM SURVEY



Page 18 out of 18

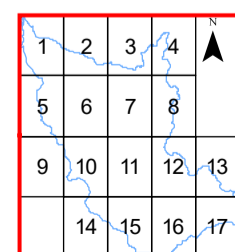
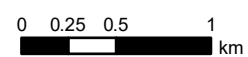
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Map 5: Riparian Overhead Cover



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HINGAIA CATCHMENT STREAM SURVEY



Page 1 out of 18

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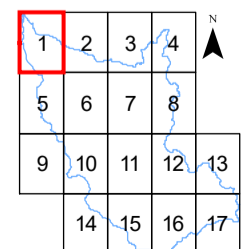
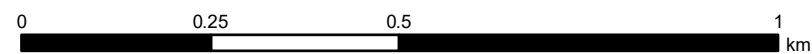


Map 5: Riparian Overhead Cover



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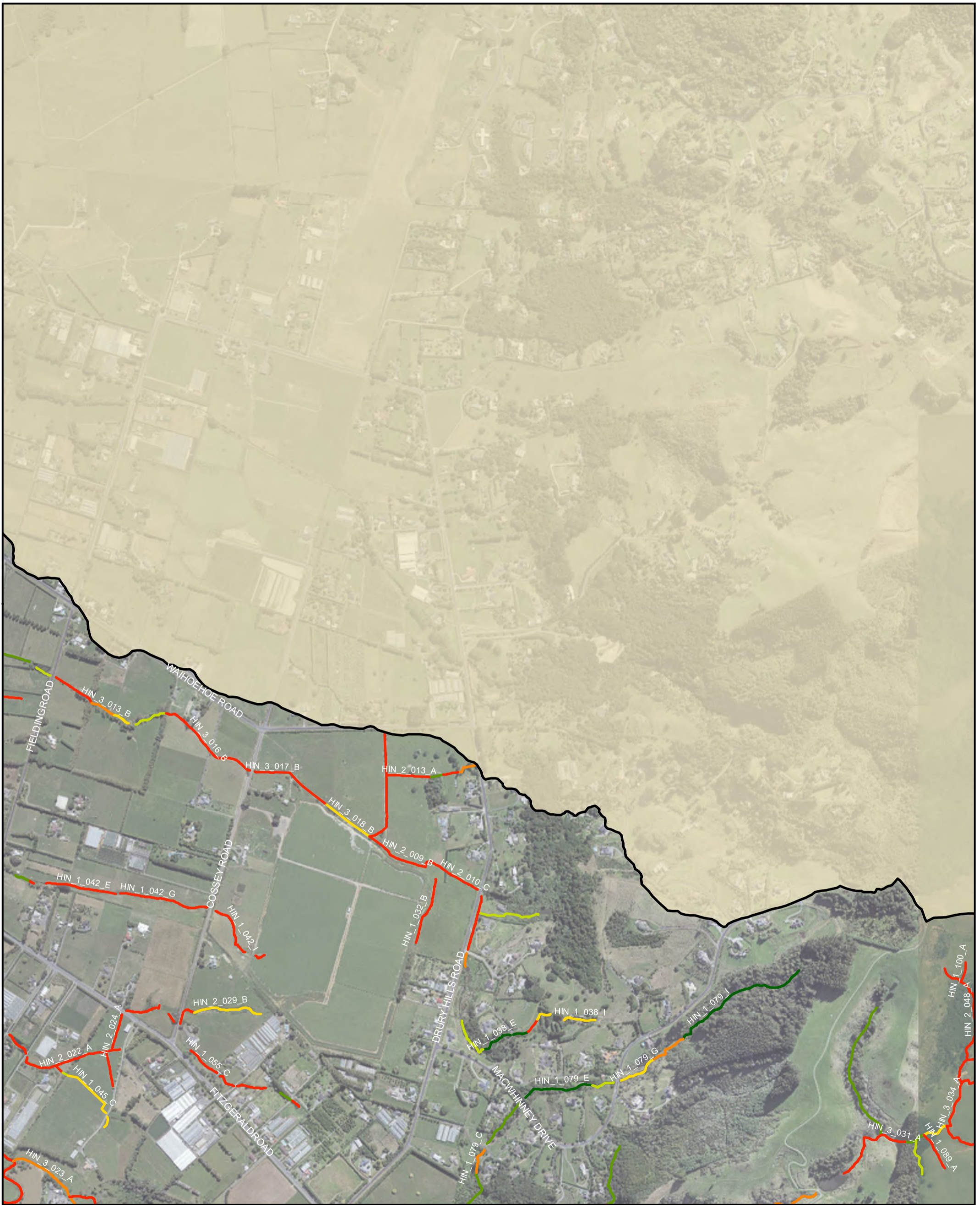
HINGAIA CATCHMENT STREAM SURVEY



Page 2 out of 18

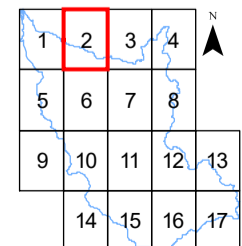
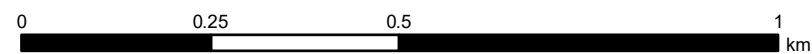
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Map 5: Riparian Overhead Cover



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HINGAIA CATCHMENT STREAM SURVEY



Page 3 out of 18

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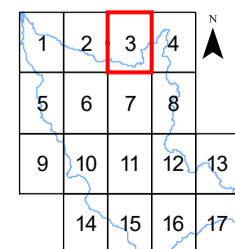
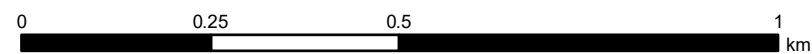
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Map 5: Riparian Overhead Cover



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HINGAIA CATCHMENT STREAM SURVEY



Page 4 out of 18

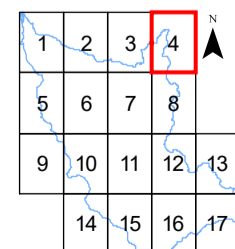
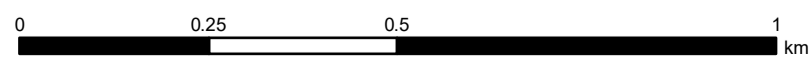
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Map 5: Riparian Overhead Cover



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HINGAIA CATCHMENT STREAM SURVEY



Page 5 out of 18

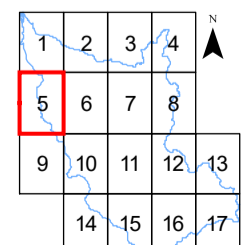
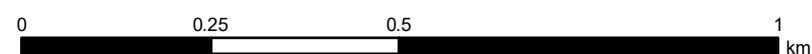
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Map 5: Riparian Overhead Cover



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HINGAIA CATCHMENT STREAM SURVEY



Page 6 out of 18

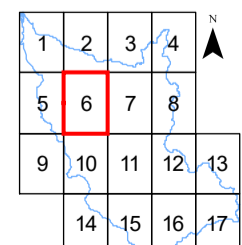
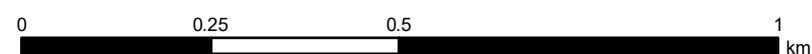
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Map 5: Riparian Overhead Cover



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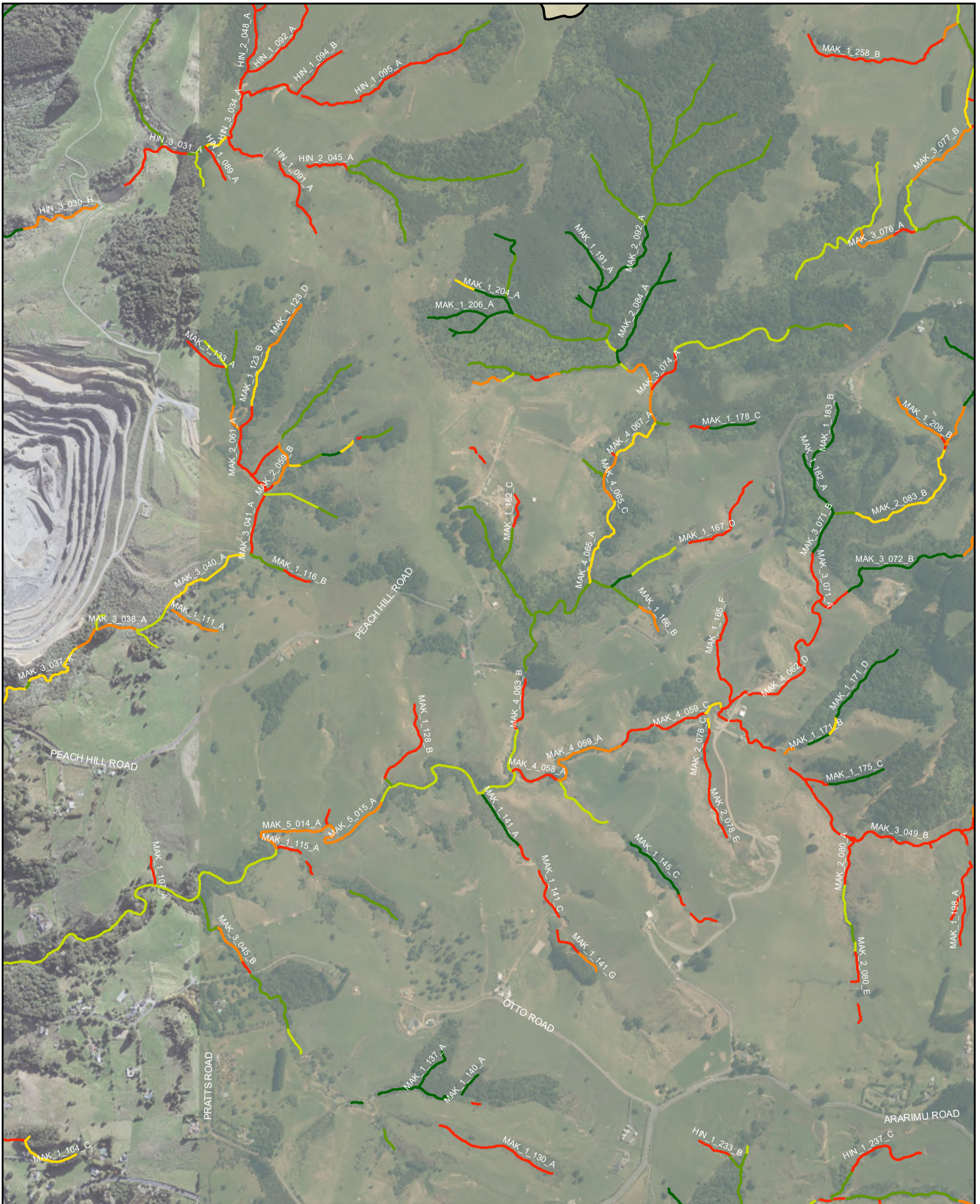
HINGAIA CATCHMENT STREAM SURVEY



Page 7 out of 18

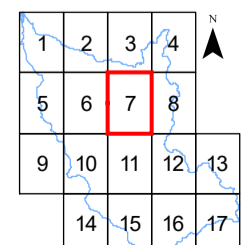
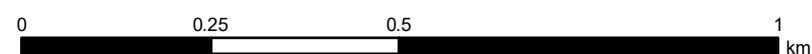
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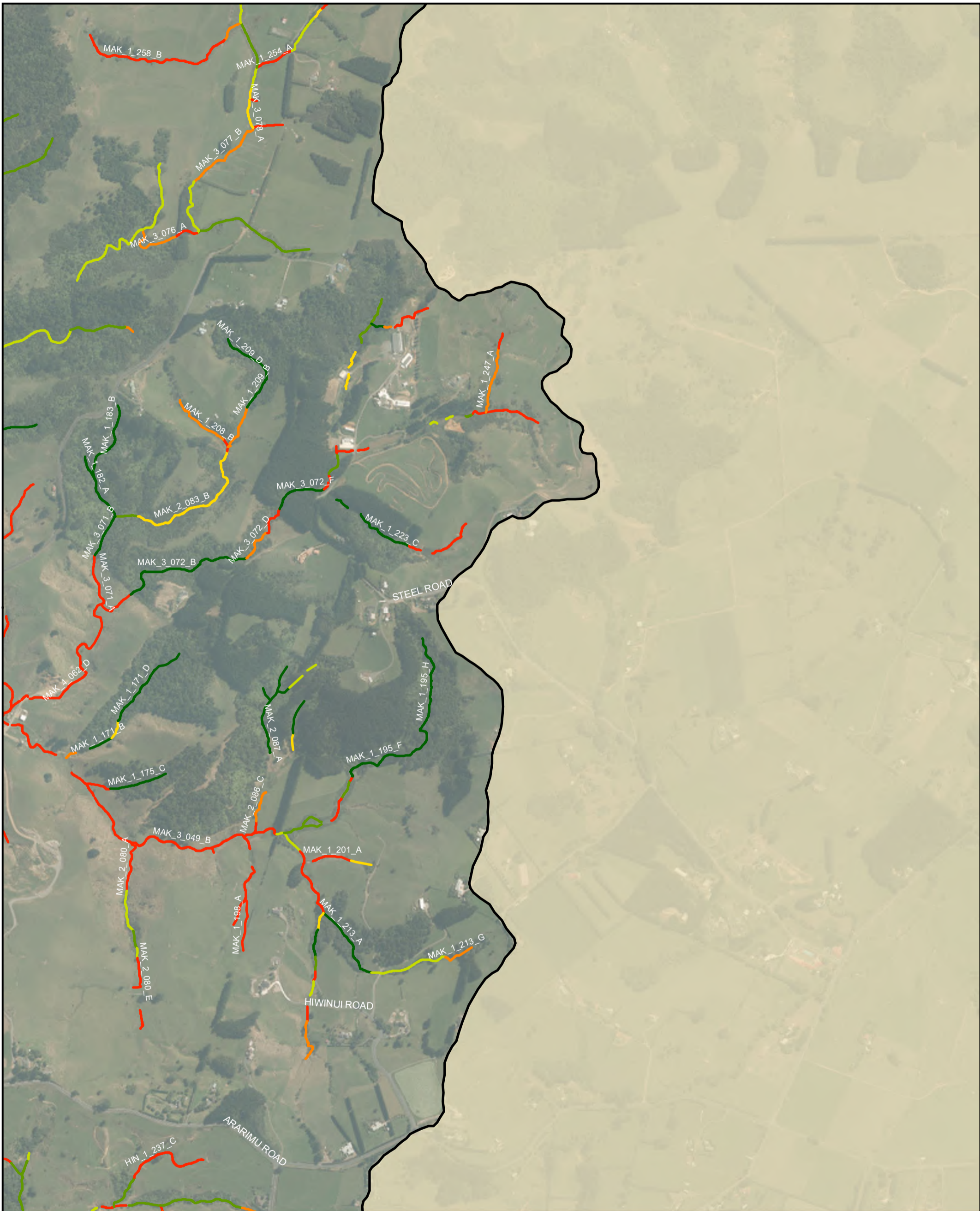
HINGAIA CATCHMENT STREAM SURVEY



Page 8 out of 18

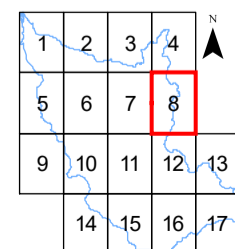
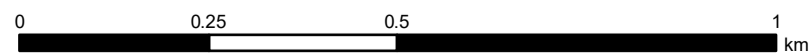
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Document Path: F:\FELIX_DATA\4SIG\HTAA3135_Hingaia_WARMAPS\MAP_05_Riparian.mxd

HINGAIA CATCHMENT STREAM SURVEY



Page 9 out of 18

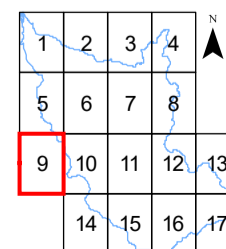
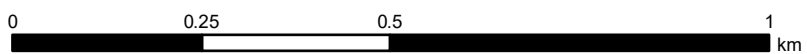
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Map 5: Riparian Overhead Cover



Document Path: F:\FELIX_DATA\4SIGHTAA3135_Hingaia_WARMAPS\MAP_05_Riparian.mxd

HINGAIA CATCHMENT STREAM SURVEY



Page 10 out of 18

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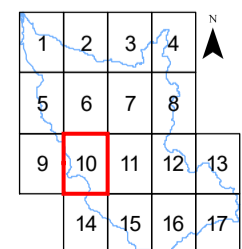
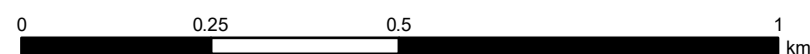


Map 5: Riparian Overhead Cover



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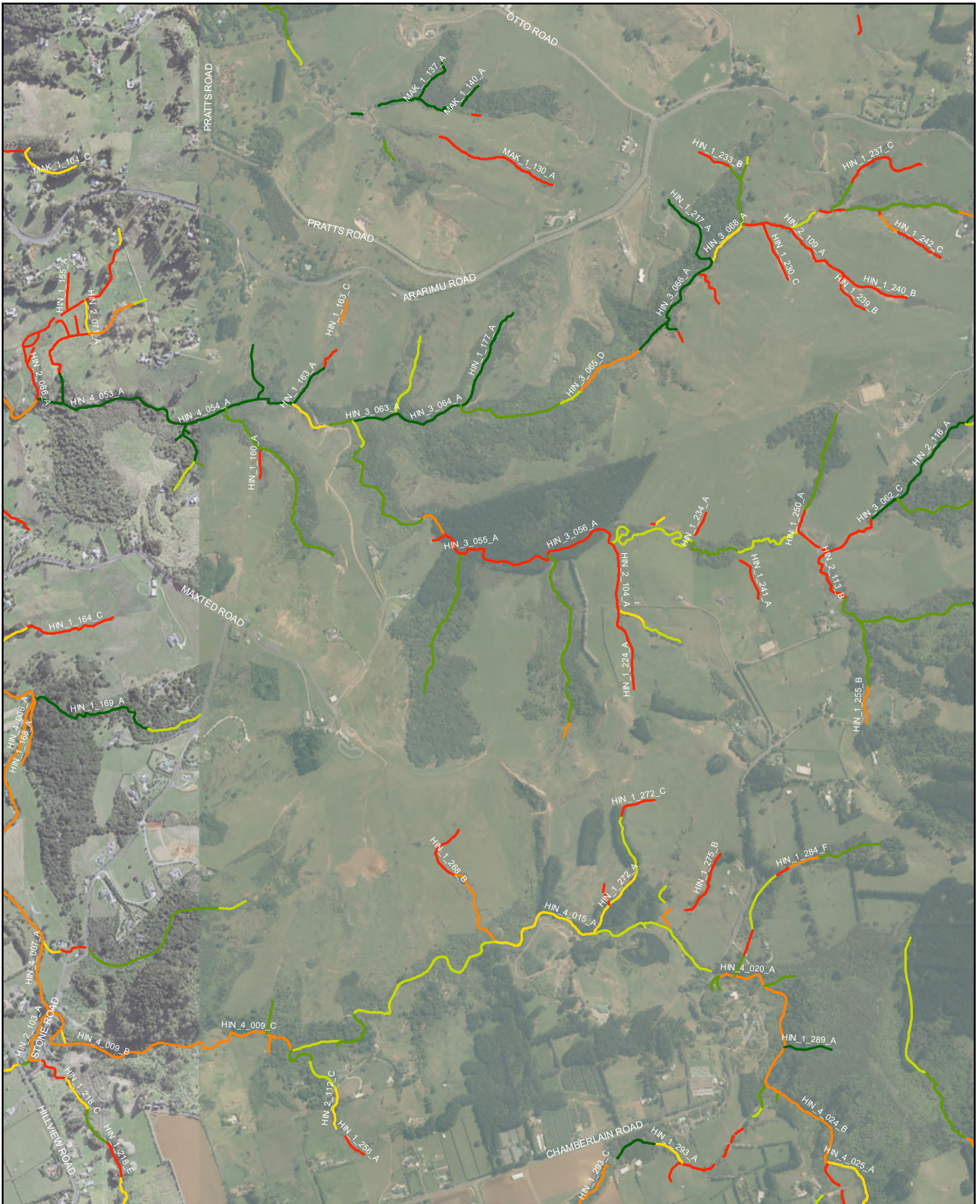


Page 11 out of 18

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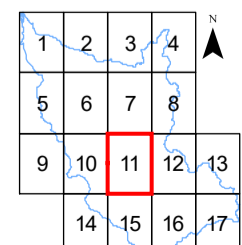
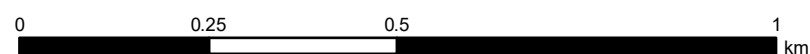


Map 5: Riparian Overhead Cover



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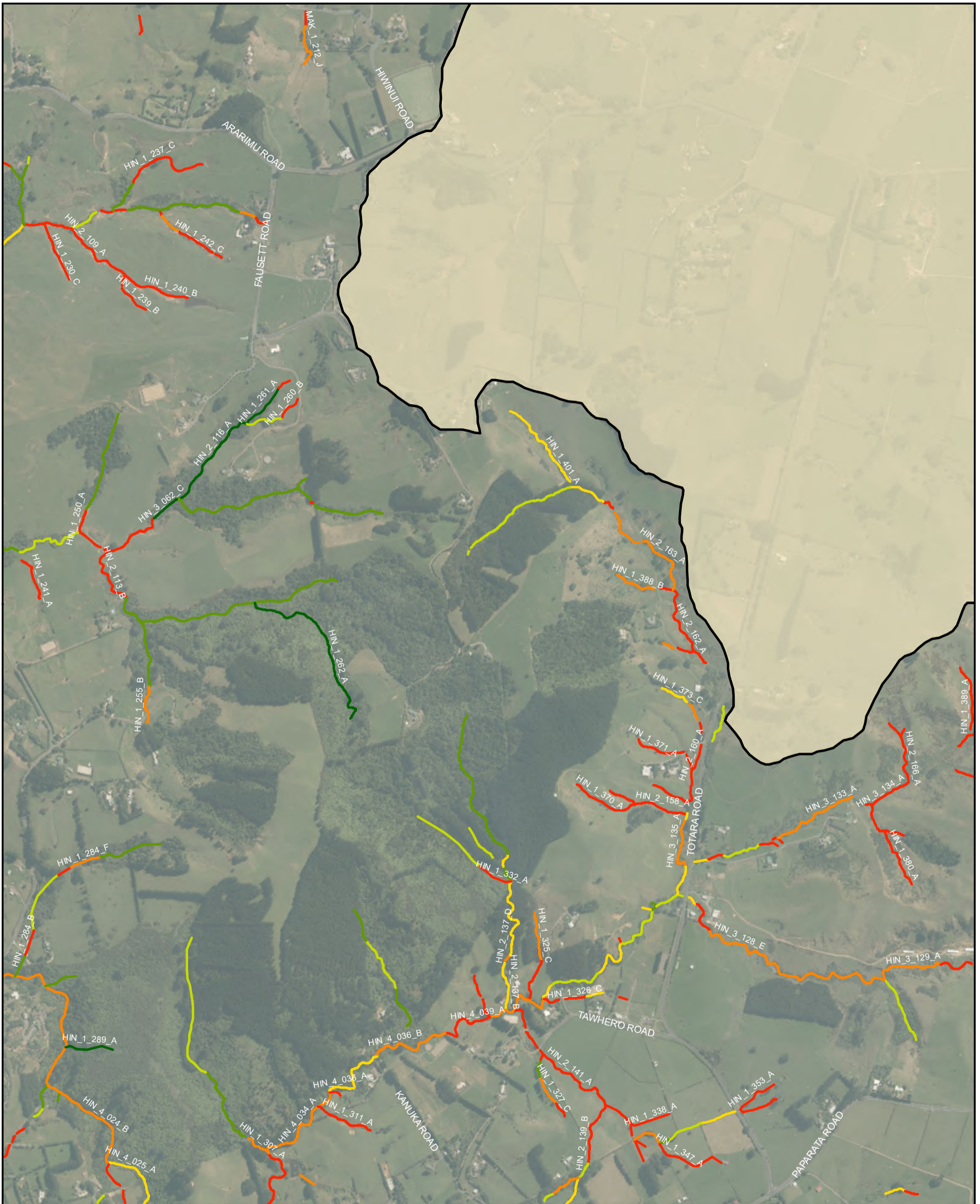
HINGAIA CATCHMENT STREAM SURVEY



Page 12 out of 18

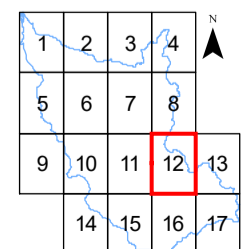
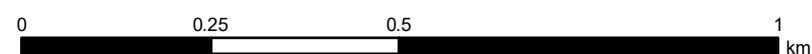
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Map 5: Riparian Overhead Cover



Document Path: F:\FELIX_DATA\4SIG\HTAA3135_Hingaia_WARMAPS\MAP_05_Riparian.mxd

HINGAIA CATCHMENT STREAM SURVEY



Page 13 out of 18

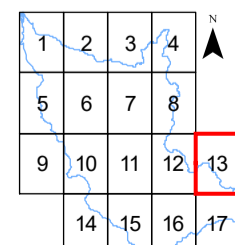
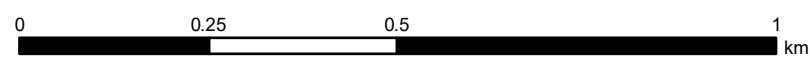
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Document Path: F:\FELIX_DATA\4SIG\HTAA3135_Hingaia_WARMAPS\MAP_05_Riparian.mxd

HINGAIA CATCHMENT STREAM SURVEY



Page 14 out of 18

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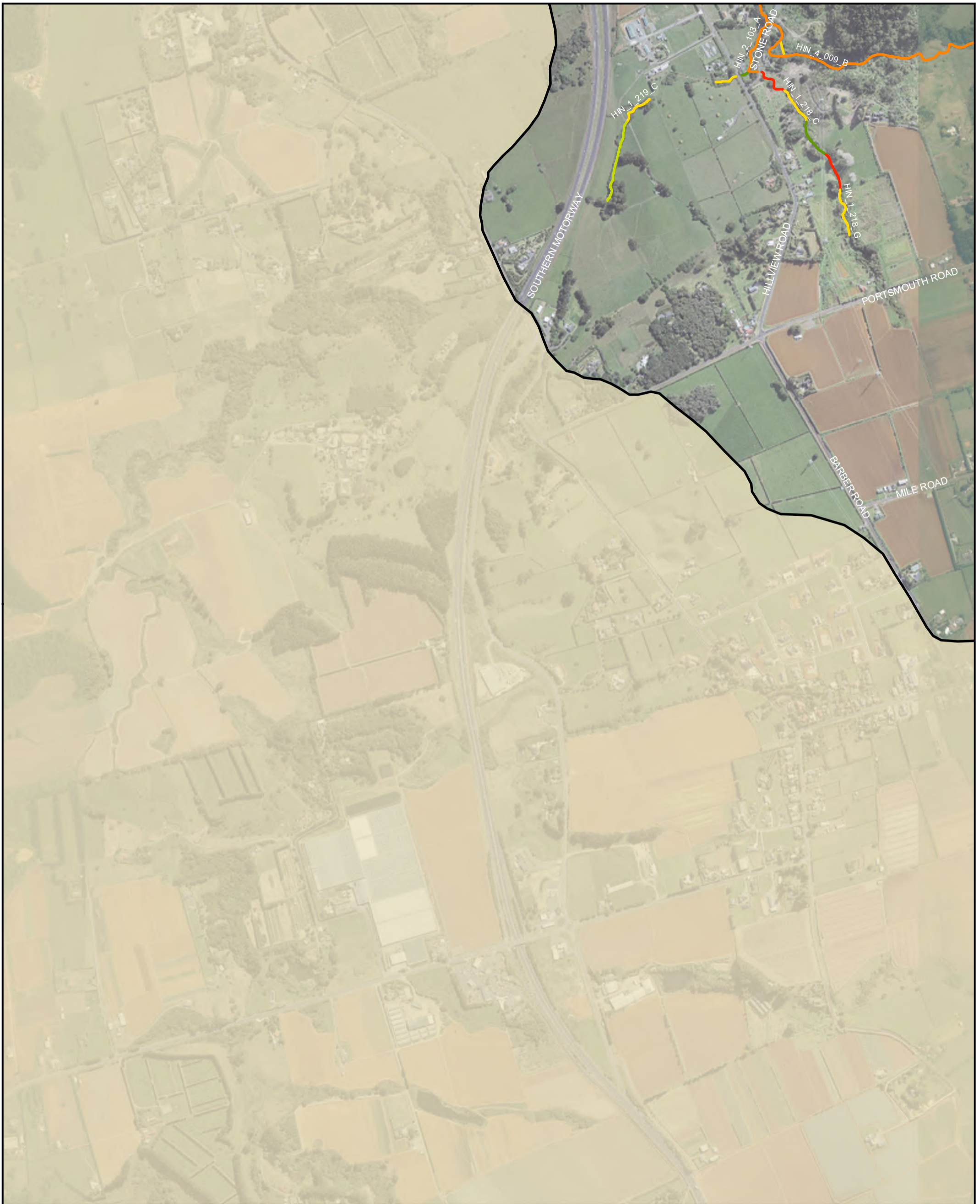
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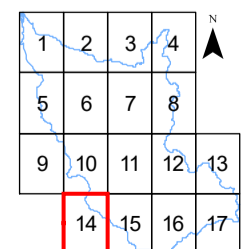
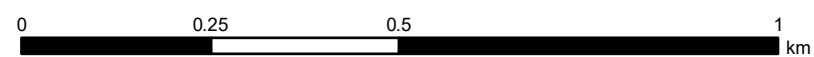
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Map 5: Riparian Overhead Cover



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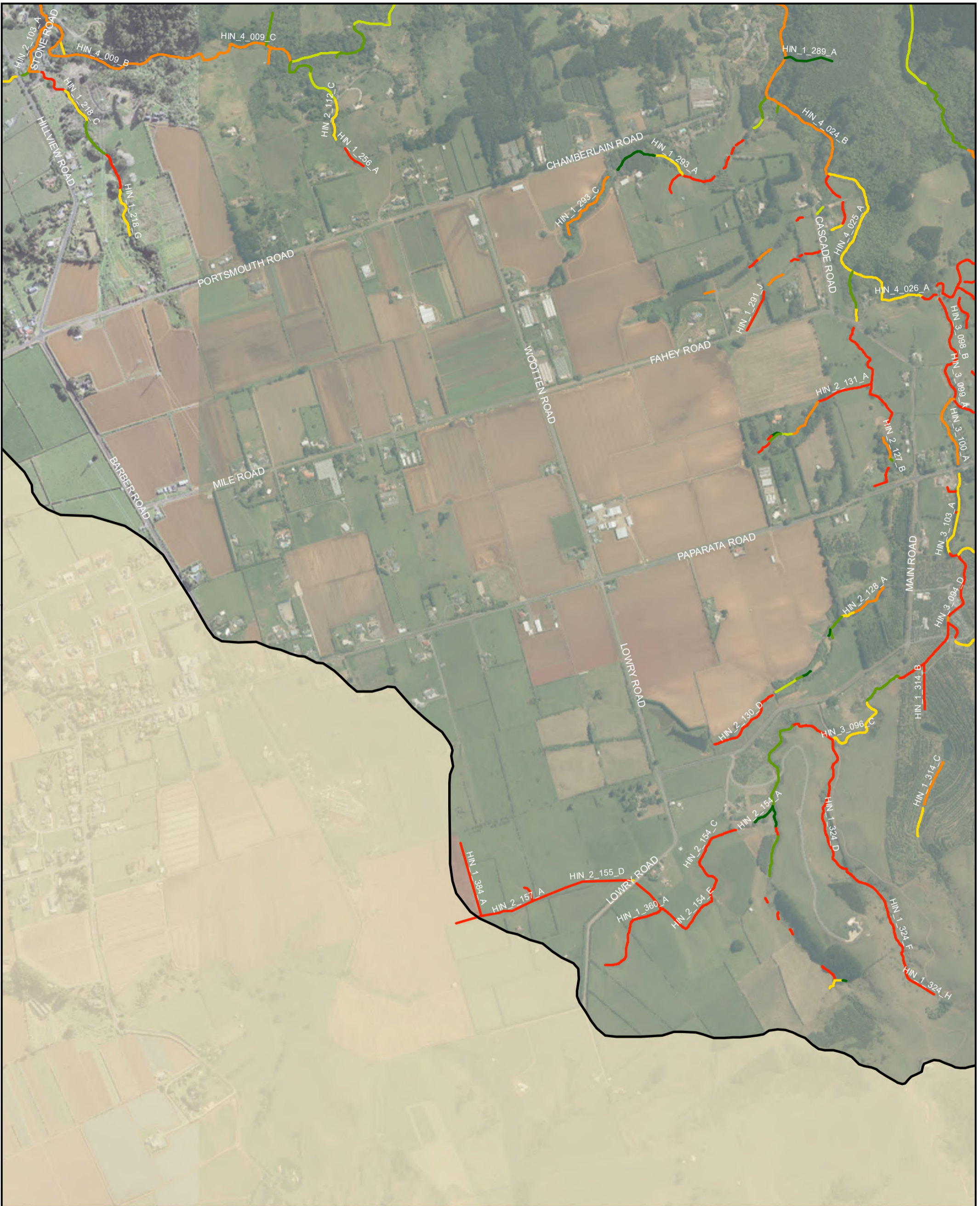


Page 15 out of 18

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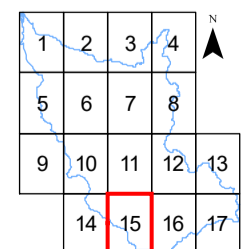
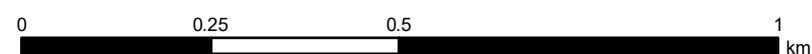


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Document Path: F:\FELIX_DATA\4\SIGHT\AA3135_Hingaia_WARMAPS\MAP_05_Riparian.mxd

HINGAIA CATCHMENT STREAM SURVEY



Page 16 out of 18

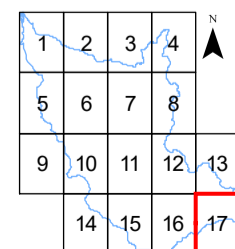
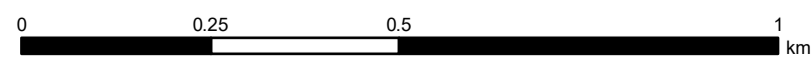
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HINGAIA CATCHMENT STREAM SURVEY



Page 18 out of 18

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