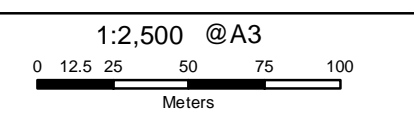
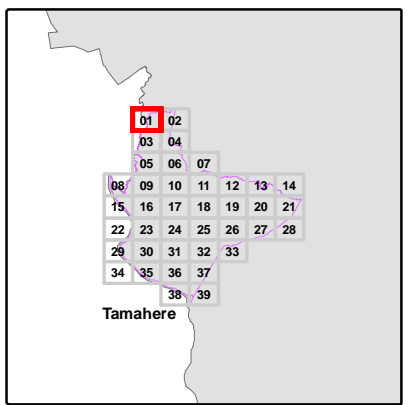
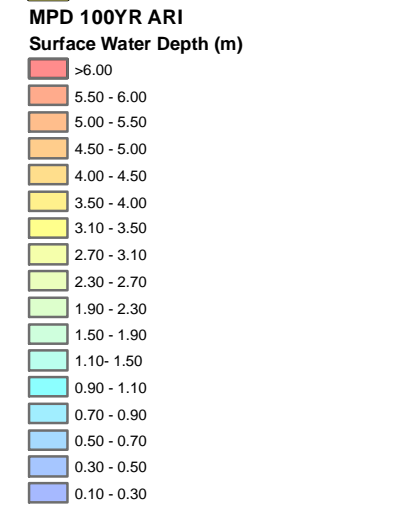


Legend

- Map Index
- ArcPhoto location with direction indicator
- Hyperlink for Overland Flow Path
- Culverts (Identified onsite)
- Overland Flowpaths/Private Property Drains
- Road Drainage
- Overland Flowpaths/Property Drain Buffer10m
- Manhole
- Sump
- Soakhole
- Outlet
- Inlet
- Catchpit
- Bubble up chamber
- Culvert (Asset Data)
- Gravity Main
- Maintained Open Drain
- 1m Contours
- Property Boundary
- Subcatchment Flowpath (general direction)
- Subcatchments Tamahere
- Tamahere Catchment Flowpath (overview)
- Tamahere Catchment



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
					DRAWN: C.SUNJ.CHEN	Sept. 2011
					DESIGNED: W.DING	Sept. 2011
					CHECKED: V.CHANDRA	Sept. 2011
					APPROVED: V.CHANDRA	Sept. 2011

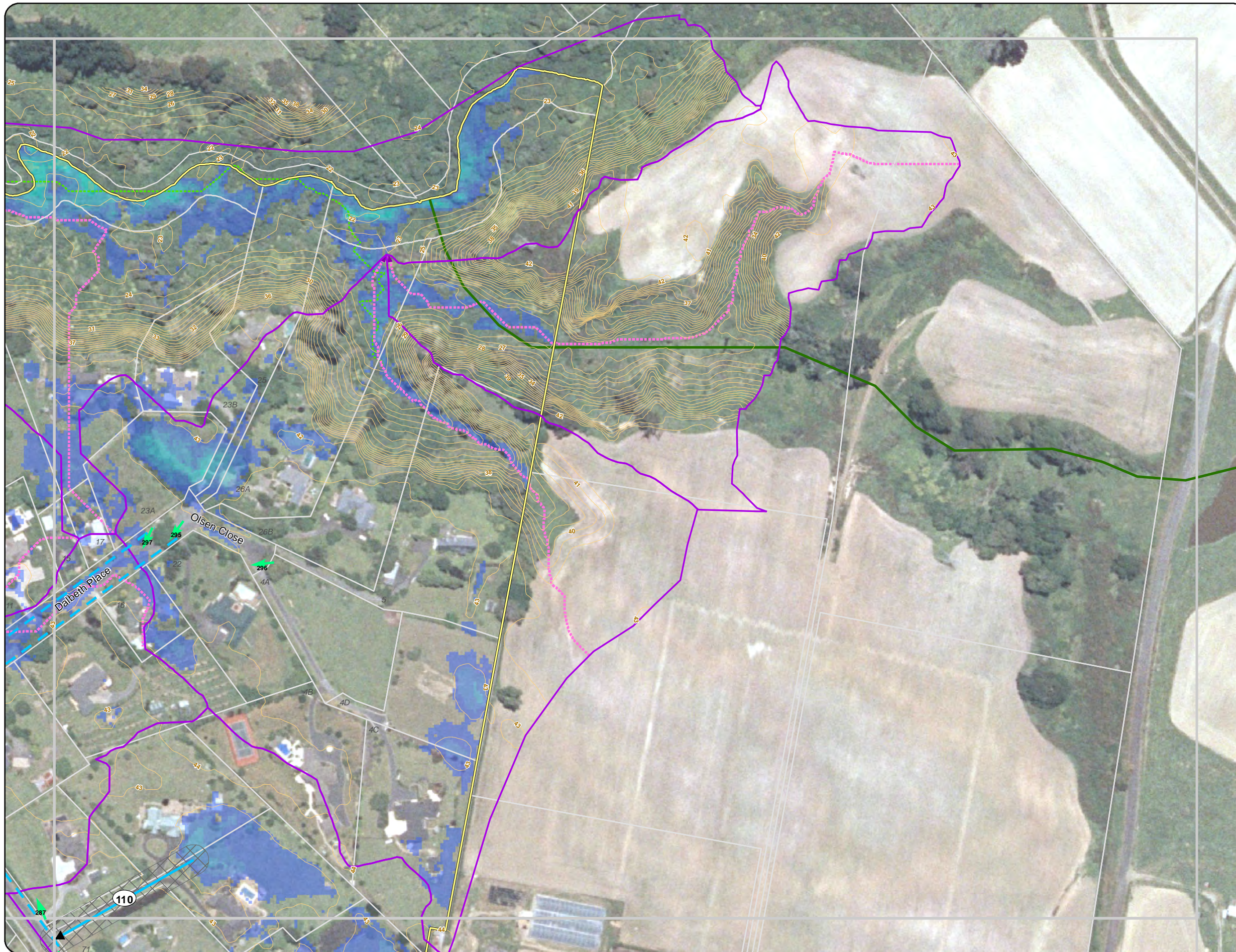
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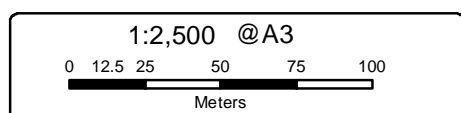
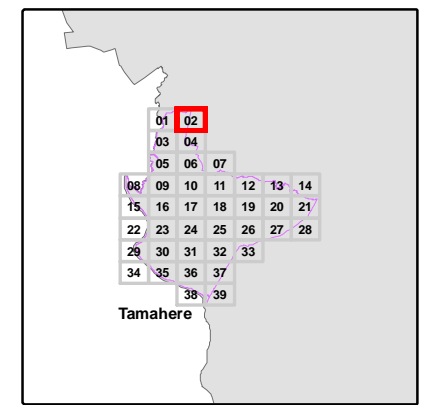
Client

Tamahere Catchment Master Planning
 Drainage System Map - 01 of 39



- Legend**
- Map Index
 - ArcPhoto location with direction indicator
 - Hyperlink for Overland Flow Path
 - Culverts (Identified onsite)
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 - Tamahere Catchment

- MPD 100YR ARI**
Surface Water Depth (m)
- >6.00
 - 5.50 - 6.00
 - 5.00 - 5.50
 - 4.50 - 5.00
 - 4.00 - 4.50
 - 3.50 - 4.00
 - 3.10 - 3.50
 - 2.70 - 3.10
 - 2.30 - 2.70
 - 1.90 - 2.30
 - 1.50 - 1.90
 - 1.10 - 1.50
 - 0.90 - 1.10
 - 0.70 - 0.90
 - 0.50 - 0.70
 - 0.30 - 0.50
 - 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Spet. 2011
					W.DING		Spet. 2011
					V.CHANDRA		Spet. 2011
					V.CHANDRA		Spet. 2011

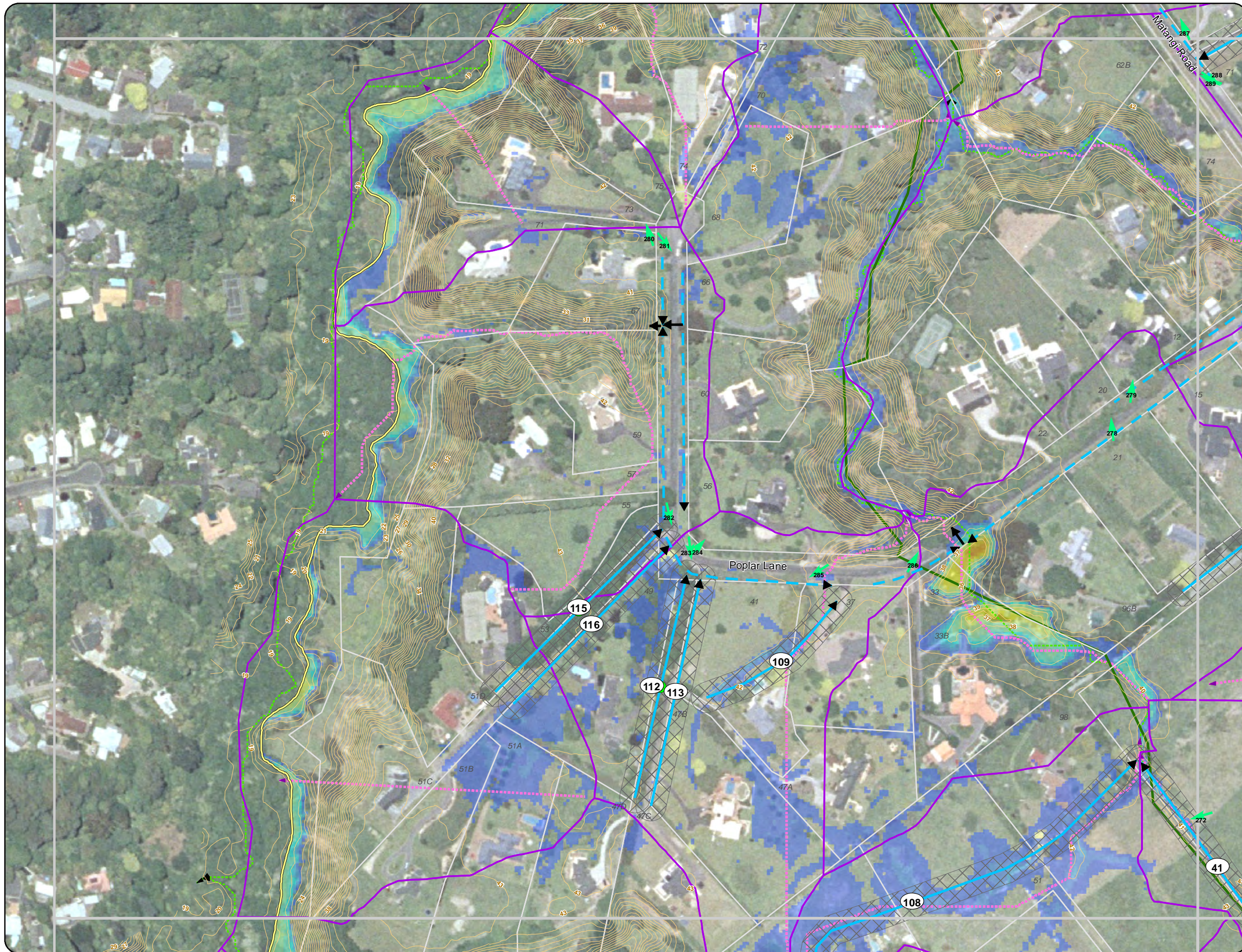
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 Drainage System Map - 02 of 39



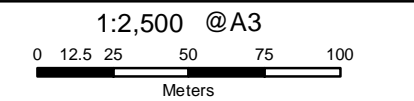
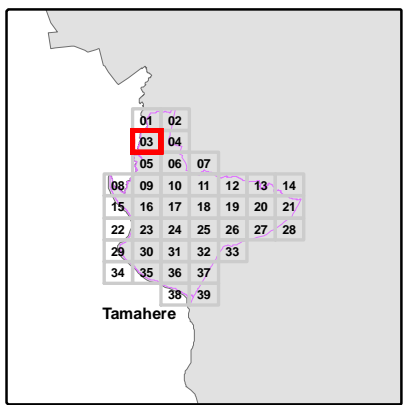
Legend

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- Tamahere Catchment

MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

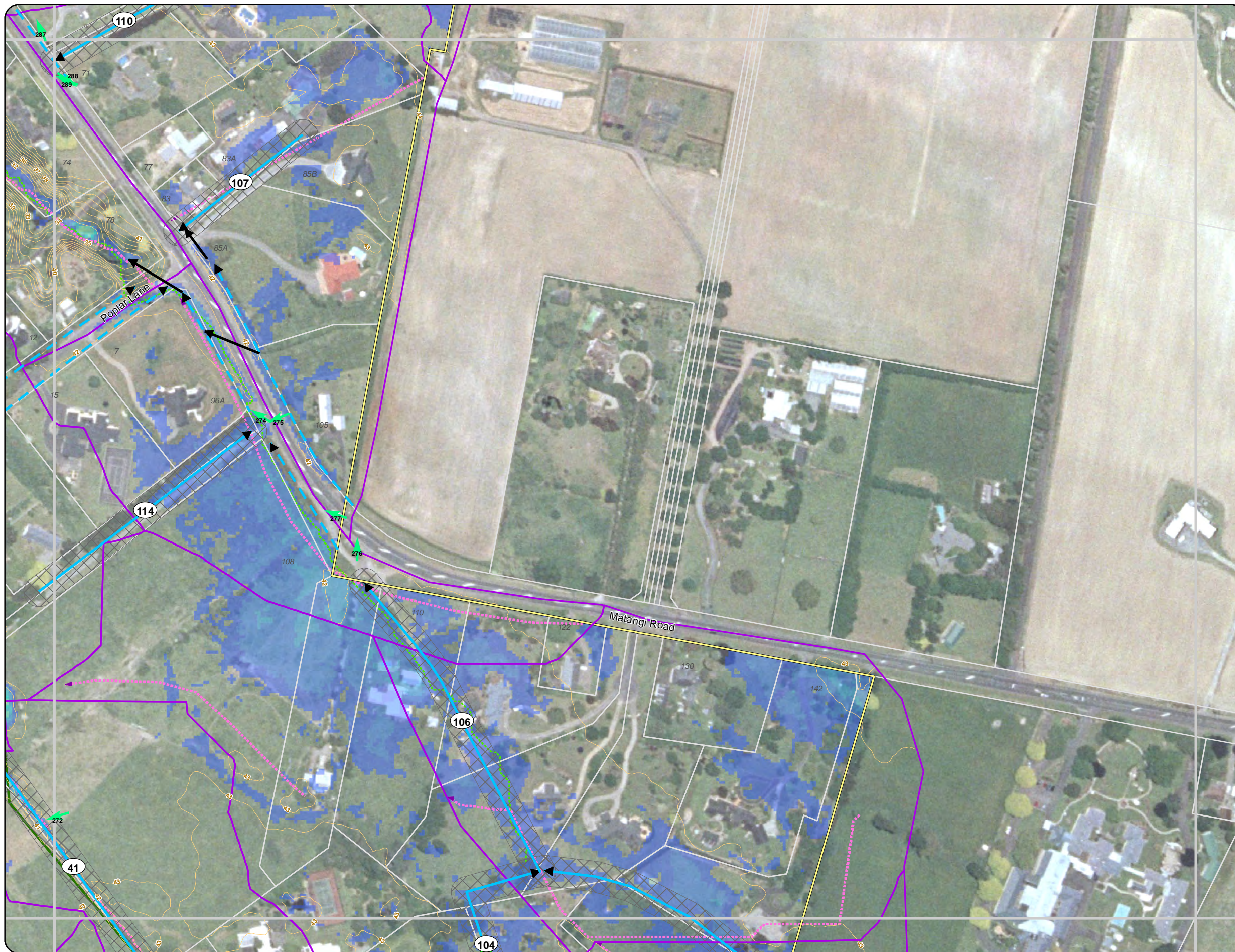
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Drainage System Map - 03 of 39



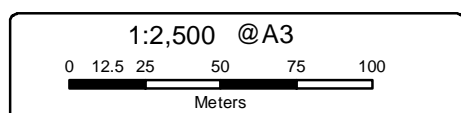
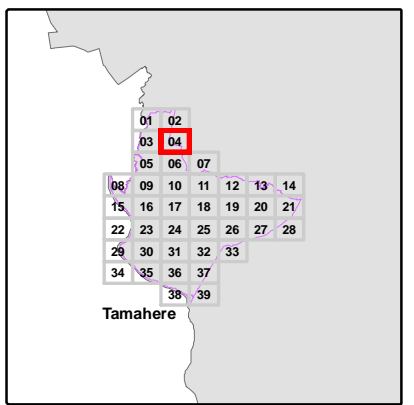
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- Map Index
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MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

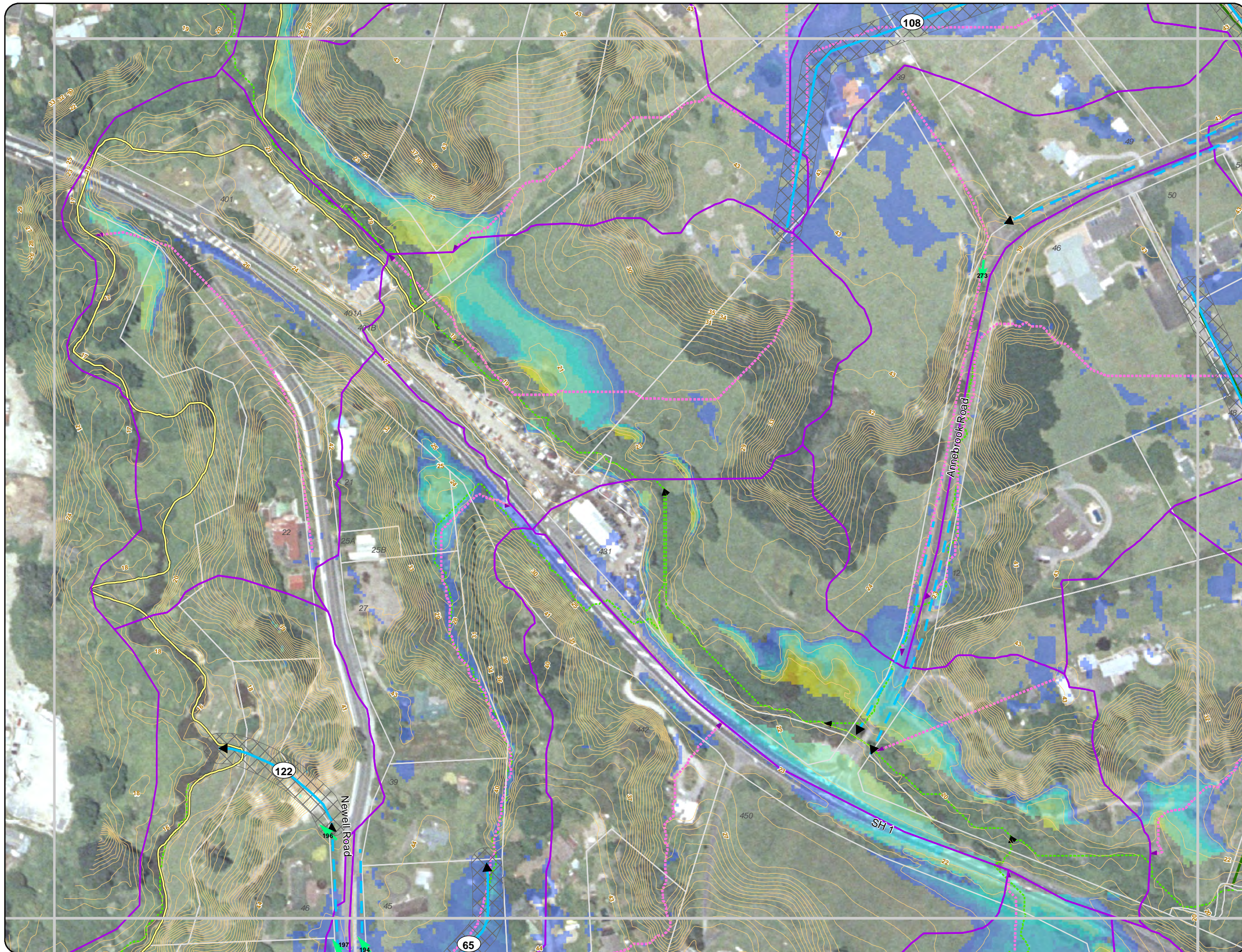
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Drainage System Map - 04 of 39



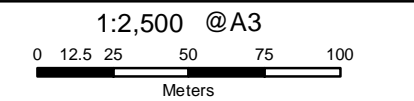
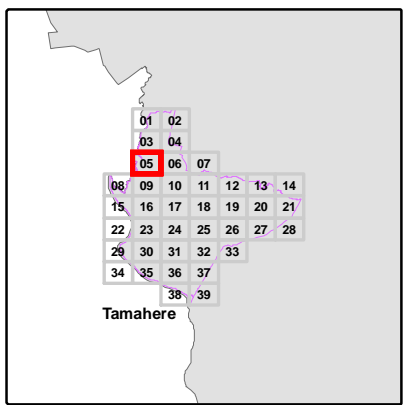
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- Map Index
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MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
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					W.DING	Sept. 2011
					V.CHANDRA	Sept. 2011
					V.CHANDRA	Sept. 2011

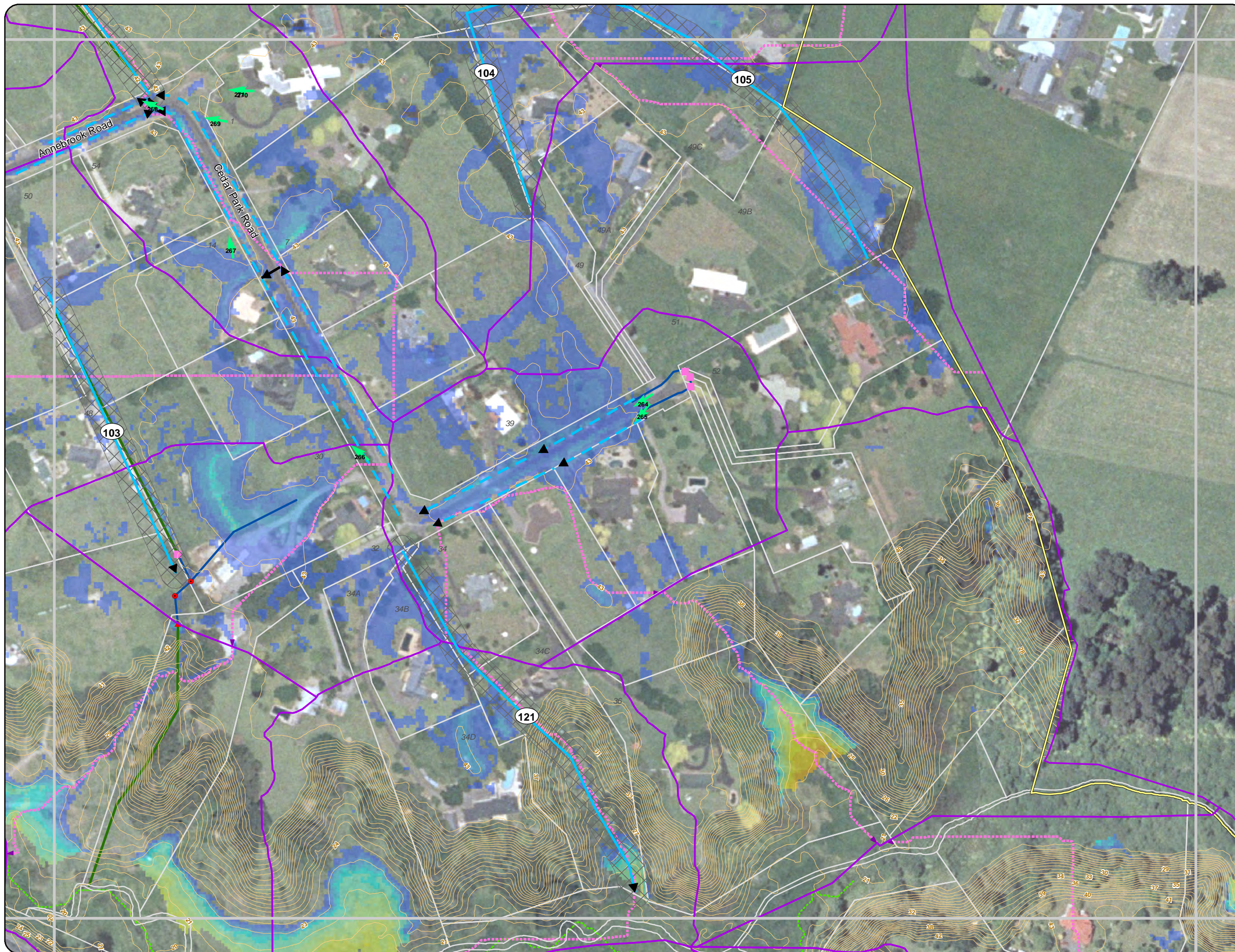
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Drainage System Map - 05 of 39

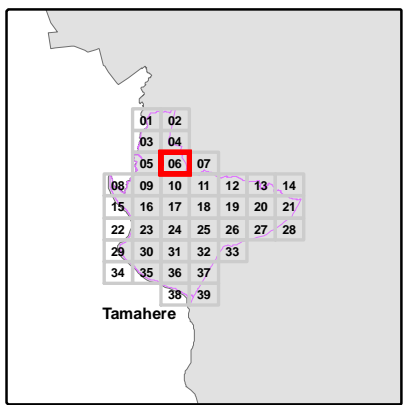


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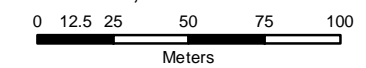
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- Tamahere Catchment

**MPD 100YR ARI
Surface Water Depth (m)**

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



1:2,500 @A3



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Spet. 2011
					W.DING		Spet. 2011
					V.CHANDRA		Spet. 2011
					V.CHANDRA		Spet. 2011

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Drainage System Map - 06 of 39



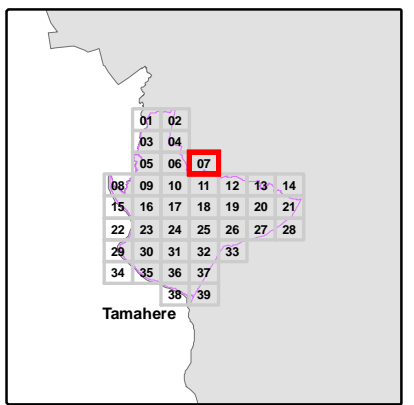
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- Map Index
- ArcPhoto location with direction indicator
- Hyperlink for Overland Flow Path
- Culverts (Identified onsite)
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- Tamahere Catchment

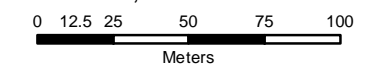
MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



1:2,500 @A3



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

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Drainage System Map - 07 of 39



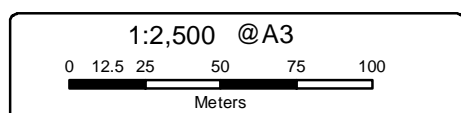
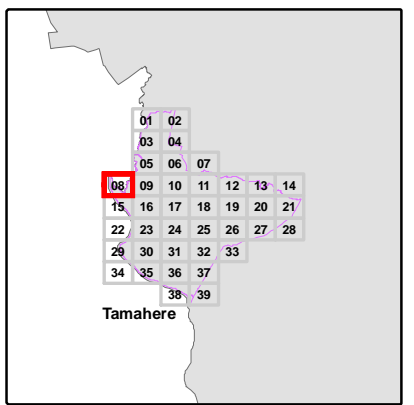
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MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

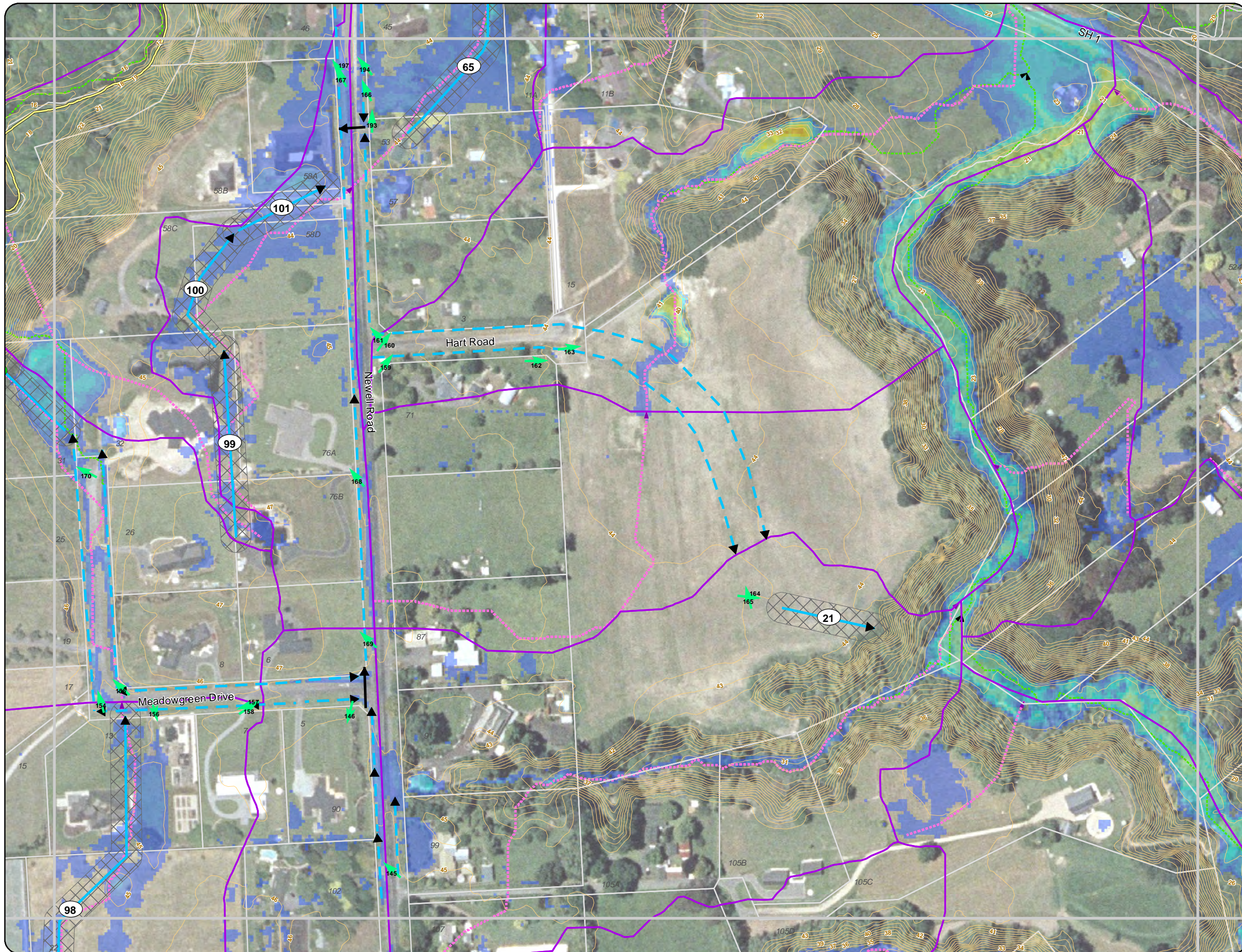
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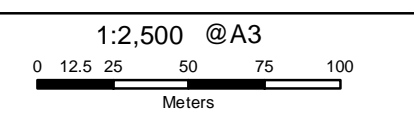
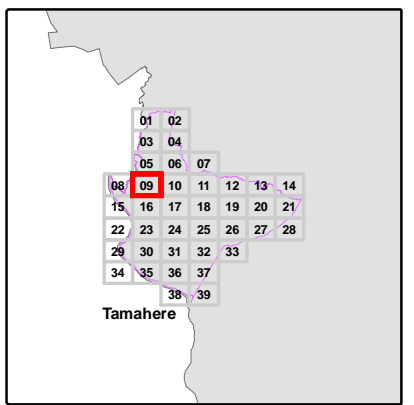
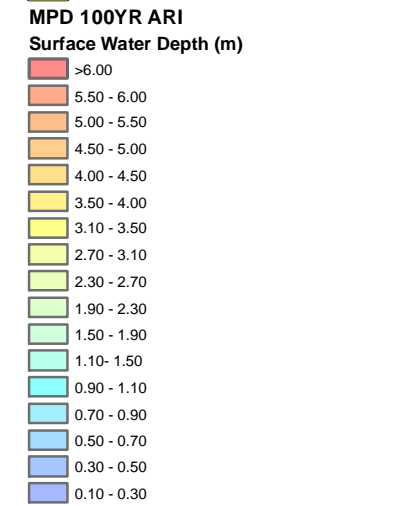
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Tamahere Catchment Master Planning
Drainage System Map - 08 of 39



Legend

- Map Index
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REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
					C.SUNUJ.CHEN	Spet. 2011
					W.DING	Spet. 2011
					V.CHANDRA	Spet. 2011
					V.CHANDRA	Spet. 2011

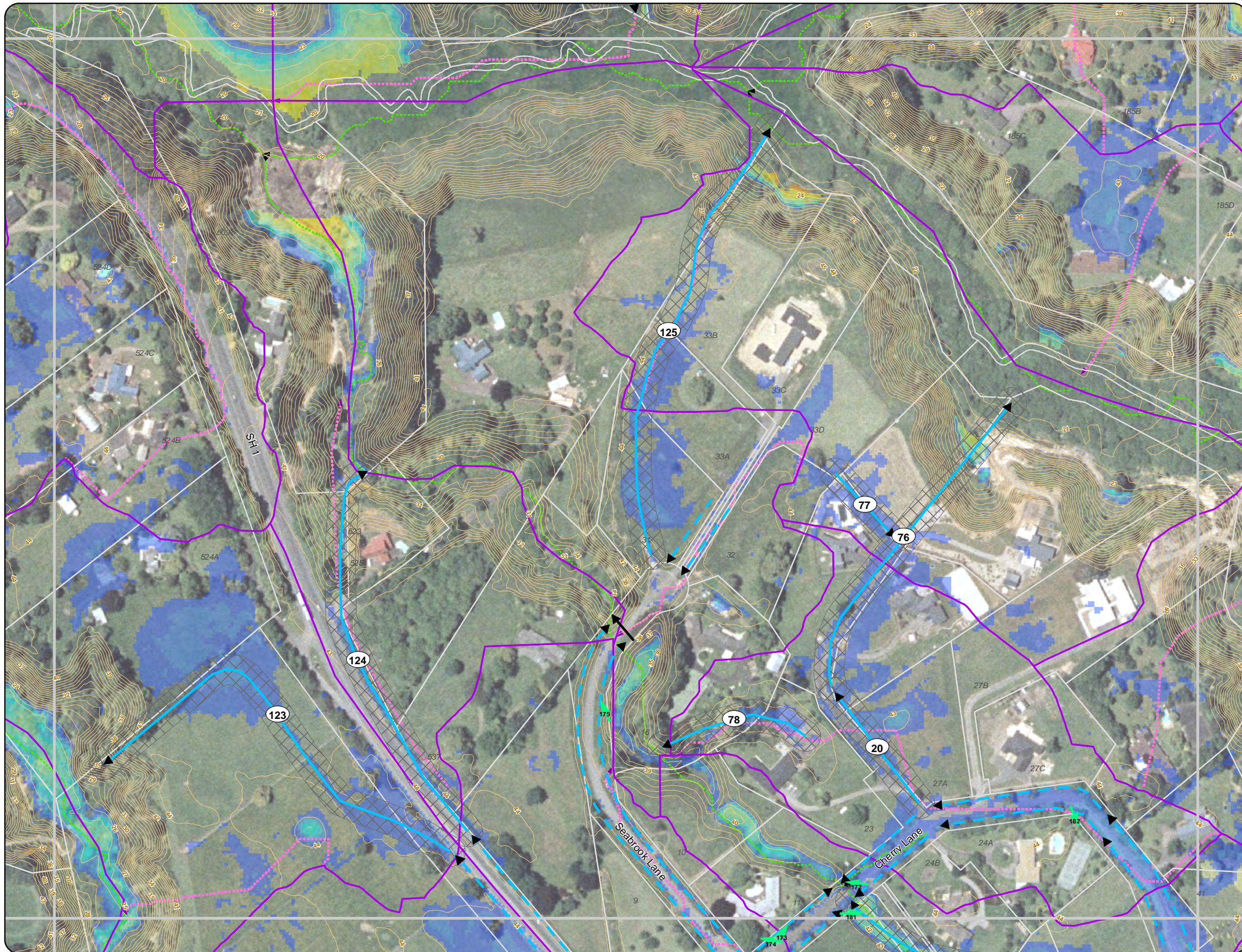
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Tamahere Catchment Master Planning
 Drainage System Map - 09 of 39



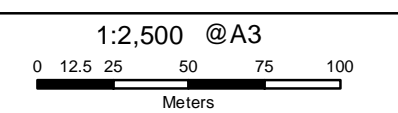
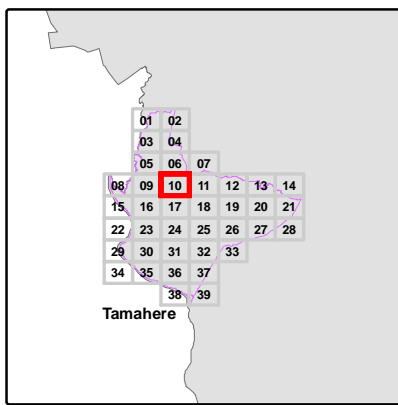
Legend

- Map Index
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MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

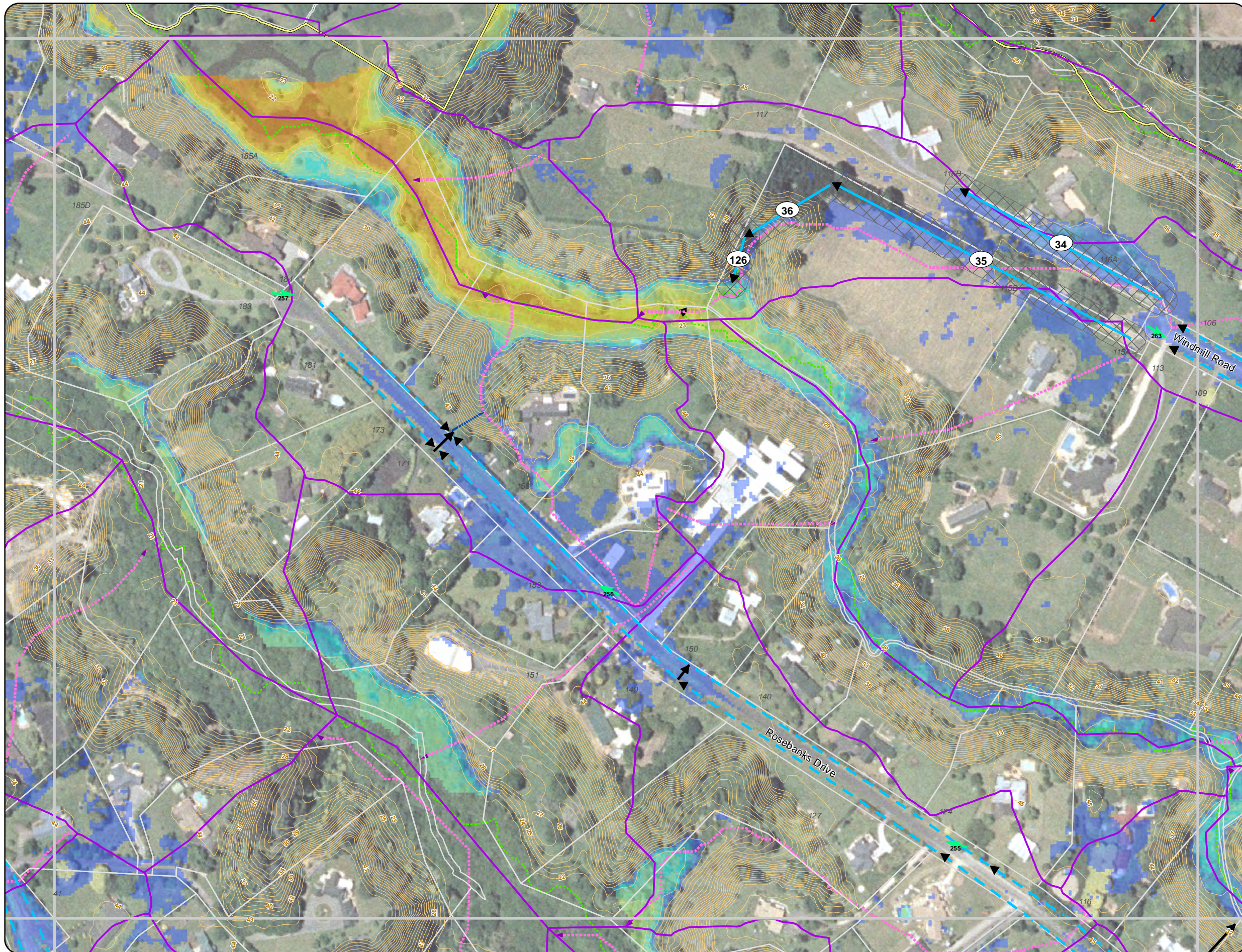
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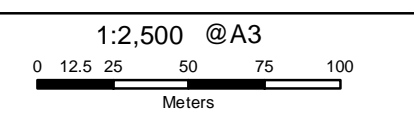
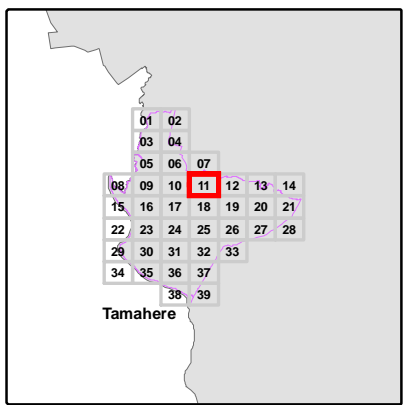
Tamahere Catchment Master Planning
Drainage System Map - 10 of 39



Legend

- Map Index
- ArcPhoto location with direction indicator
- Hyperlink for Overland Flow Path
- Culverts (Identified onsite)
- Overland Flowpaths/Private Property Drains
- Road Drainage
- Overland Flowpaths/Property Drain Buffer10m
- Manhole
- Sump
- Soakhole
- Outlet
- Inlet
- Catchpit
- Bubble up chamber
- Culvert (Asset Data)
- Gravity Main
- Maintained Open Drain
- 1m Contours
- Property Boundary
- Subcatchment Flowpath (general direction)
- Subcatchments Tamahere
- Tamahere Catchment Flowpath (overview)
- Tamahere Catchment

- MPD 100YR ARI**
Surface Water Depth (m)
- >6.00
 - 5.50 - 6.00
 - 5.00 - 5.50
 - 4.50 - 5.00
 - 4.00 - 4.50
 - 3.50 - 4.00
 - 3.10 - 3.50
 - 2.70 - 3.10
 - 2.30 - 2.70
 - 1.90 - 2.30
 - 1.50 - 1.90
 - 1.10 - 1.50
 - 0.90 - 1.10
 - 0.70 - 0.90
 - 0.50 - 0.70
 - 0.30 - 0.50
 - 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
					DRAWN: C.SUNJ.CHEN	Sept. 2011
					DESIGNED: W.DING	Sept. 2011
					CHECKED: V.CHANDRA	Sept. 2011
					APPROVED: V.CHANDRA	Sept. 2011

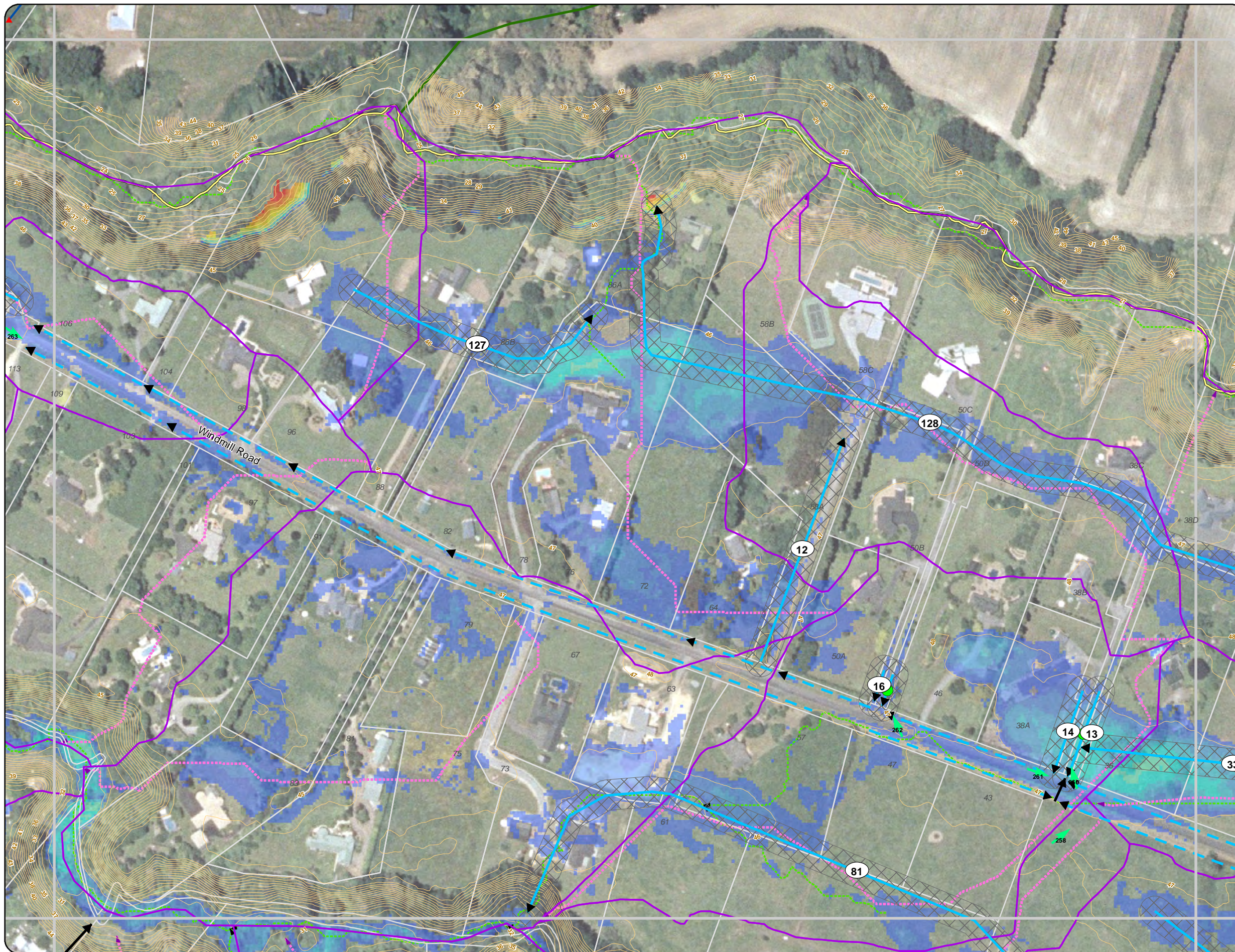
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 New Zealand

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Tamahere Catchment Master Planning
 Drainage System Map - 11 of 39



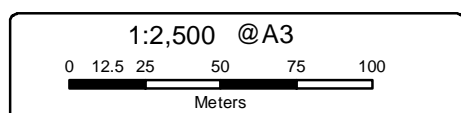
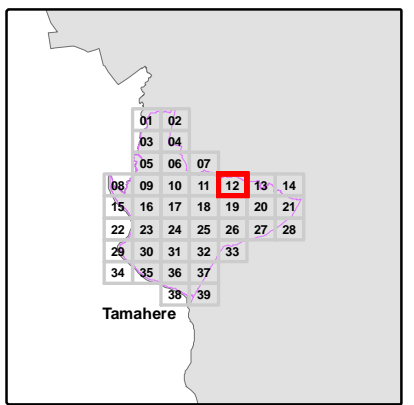
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- Map Index
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- Road Drainage
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- Gravity Main
- Maintained Open Drain
- 1m Contours
- Property Boundary
- Subcatchment Flowpath (general direction)
- Subcatchments Tamahere
- Tamahere Catchment Flowpath (overview)
- Tamahere Catchment

MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

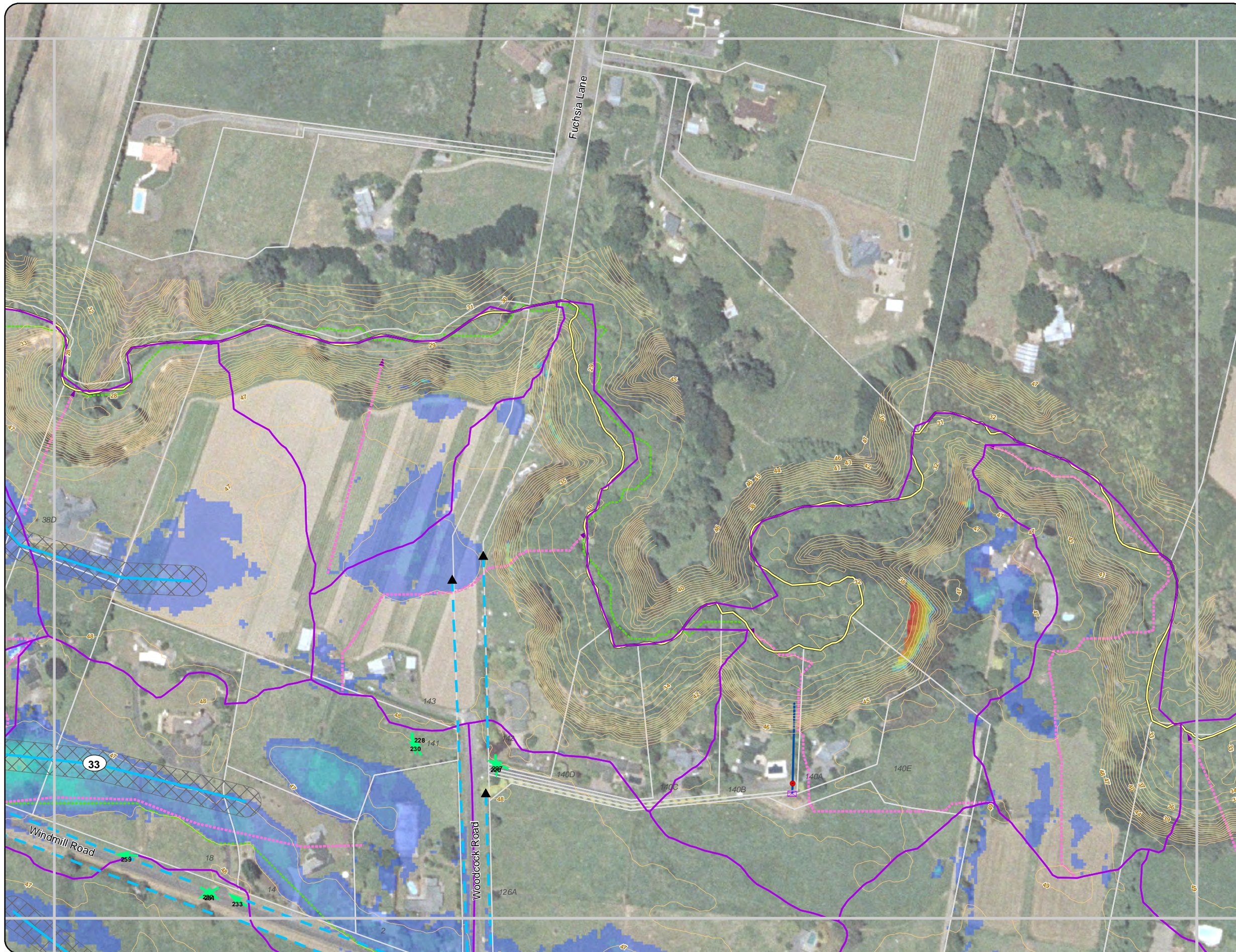
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Tamahere Catchment Master Planning
Drainage System Map - 12 of 39



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Legend

- Map Index
- ArcPhoto location with direction indicator
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- Culverts (Identified onsite)
- Overland Flowpaths/Private Property Drains
- Road Drainage
- Overland Flowpaths/Property Drain Buffer10m
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- 1m Contours
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- Subcatchment Flowpath (general direction)
- Subcatchments Tamahere
- Tamahere Catchment Flowpath (overview)
- Tamahere Catchment

MPD 100YR ARI
Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30

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REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

FILE Path: G:\5130162\GIS\MXD\51_30162_G002_RevA_Figure 2_Drainage System Overland Flowpath_May_2012.mxd

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Drainage System Map - 13 of 39



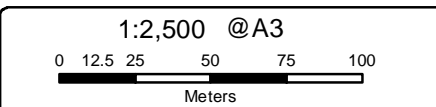
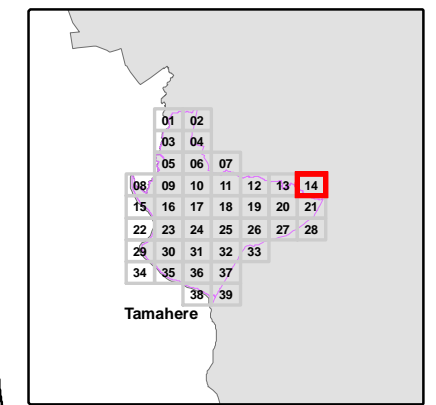
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- Map Index
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MPD 100YR ARI

Surface Water Depth (m)

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- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
					DRAWN: C.SUNJ.CHEN	Sept. 2011
					DESIGNED: W.DING	Sept. 2011
					CHECKED: V.CHANDRA	Sept. 2011
					APPROVED: V.CHANDRA	Sept. 2011

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Drainage System Map - 14 of 39



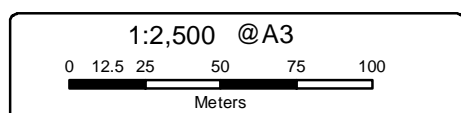
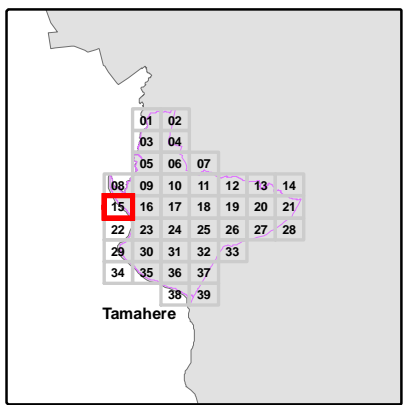
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MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
	DRAWN	C.SUNUJ.CHEN		Spet. 2011		
	DESIGNED	W.DING		Spet. 2011		
	CHECKED	V.CHANDRA		Spet. 2011		
	APPROVED:	V.CHANDRA		Spet. 2011		

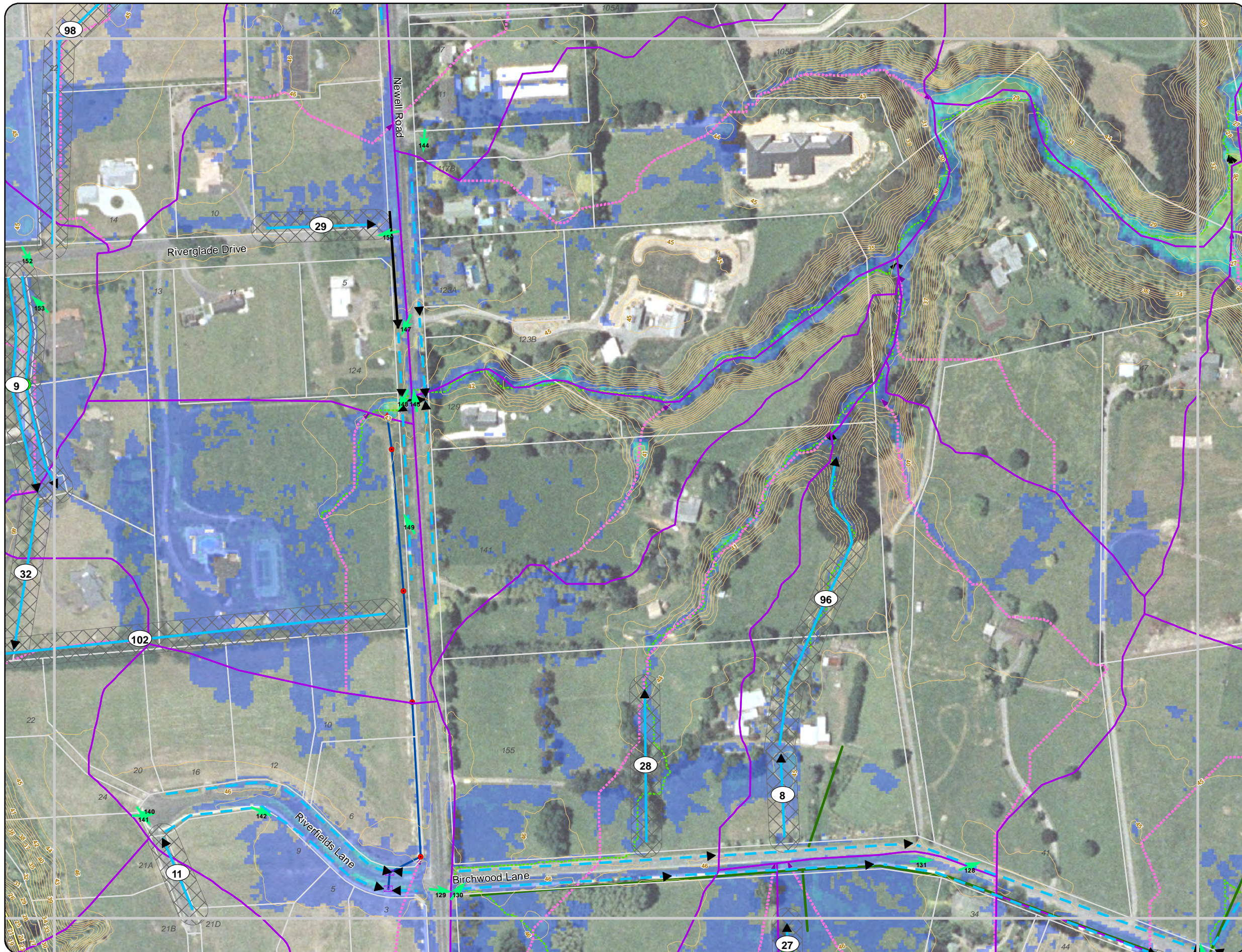
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Drainage System Map - 15 of 39

FILE Path: G:\5130162\GIS\MXD\51_30162_G002_RevA_Figure 2_Drainage System Overland Flowpath_May_2012.mxd



Legend

- Map Index
- ArcPhoto location with direction indicator
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- Tamahere Catchment Flowpath (overview)
- Tamahere Catchment

MPD 100YR ARI
Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30

Tamahere

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REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
					C.SUNUJ.CHEN	Sept. 2011
					W.DING	Sept. 2011
					V.CHANDRA	Sept. 2011
					V.CHANDRA	Sept. 2011

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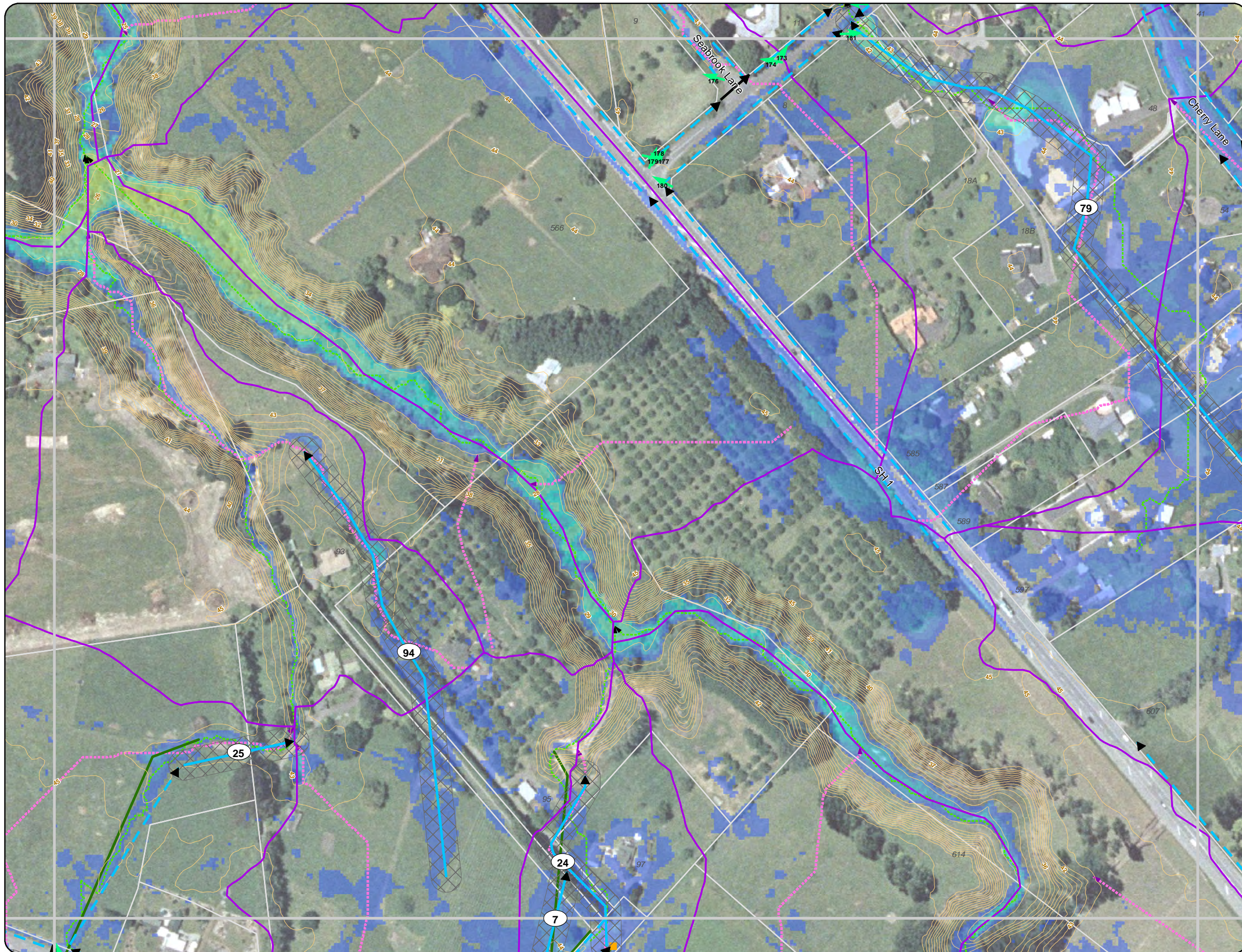
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Tamahere Catchment Master Planning

Drainage System Map - 16 of 39



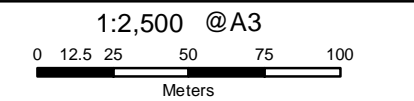
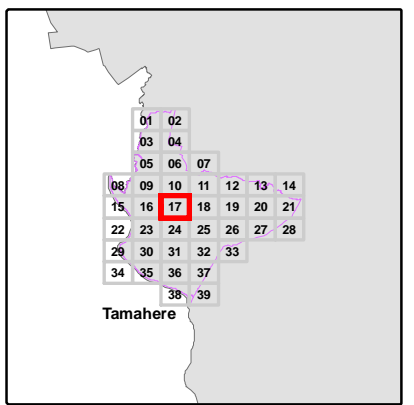
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- Map Index
- ArcPhoto location with direction indicator
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MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
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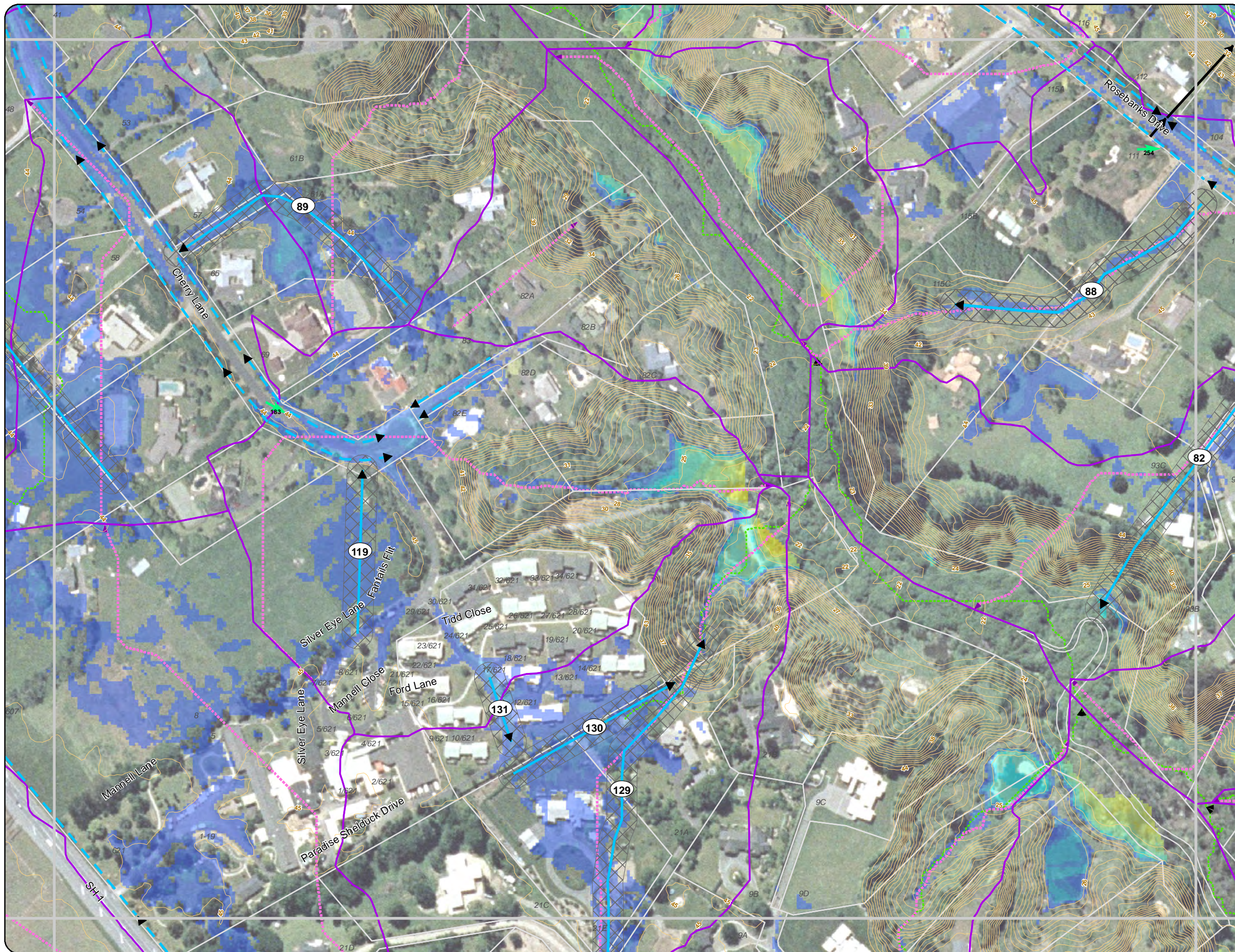
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Tamahere Catchment Master Planning
Drainage System Map - 17 of 39

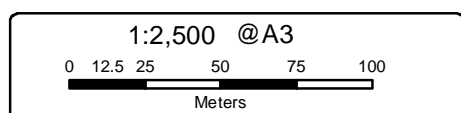
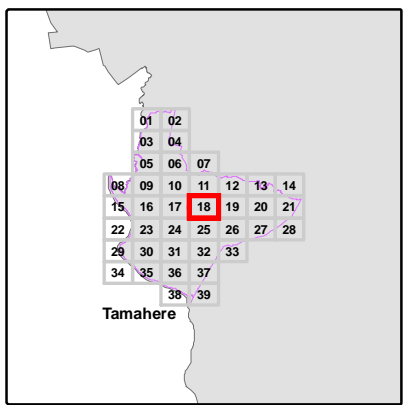


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MPD 100YR ARI Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
					C.SUNUJ.CHEN	Sept. 2011
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					V.CHANDRA	Sept. 2011

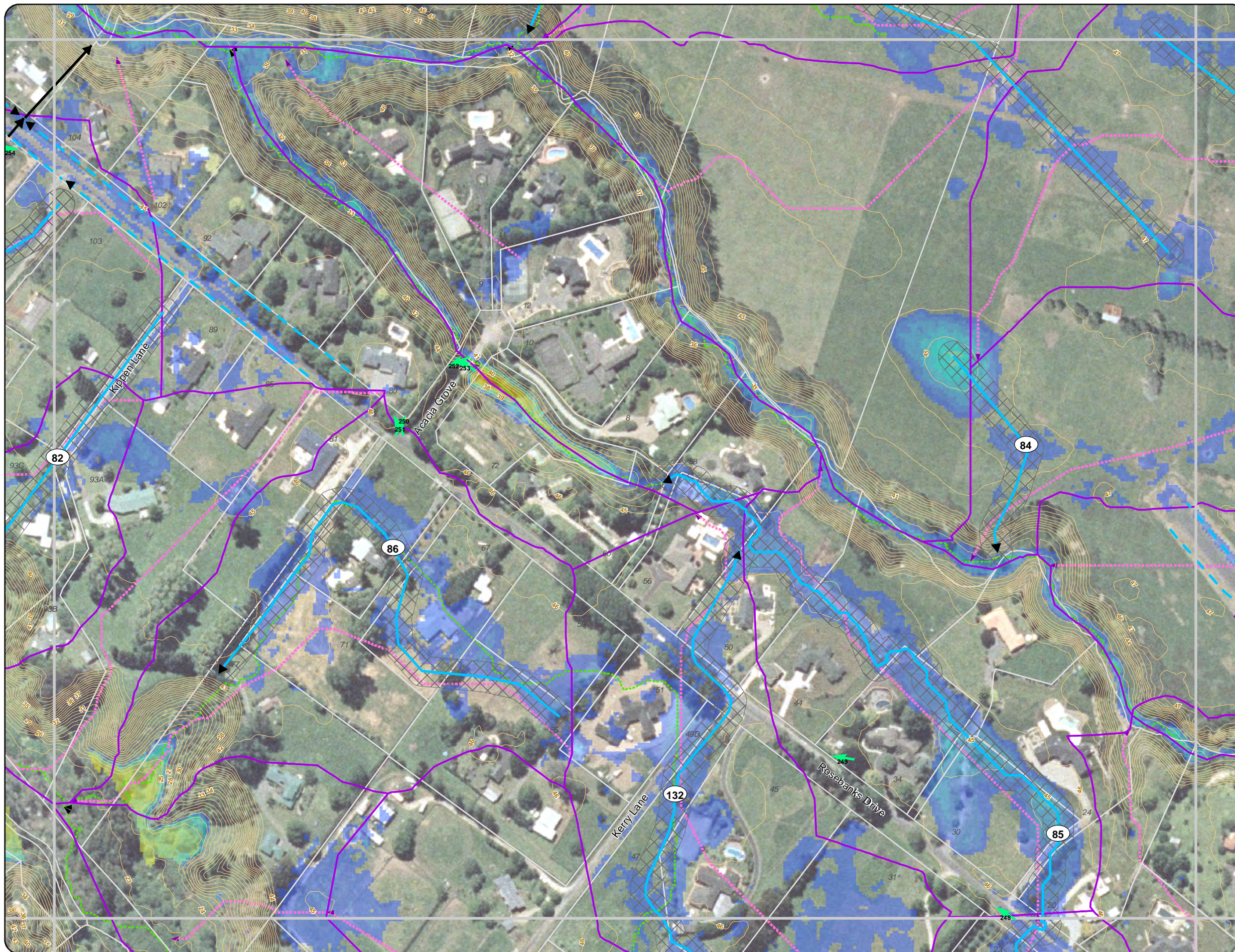
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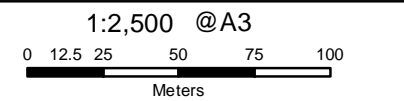
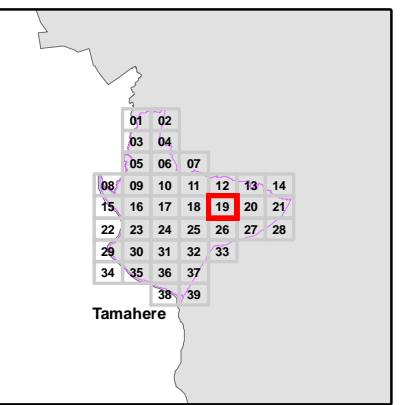
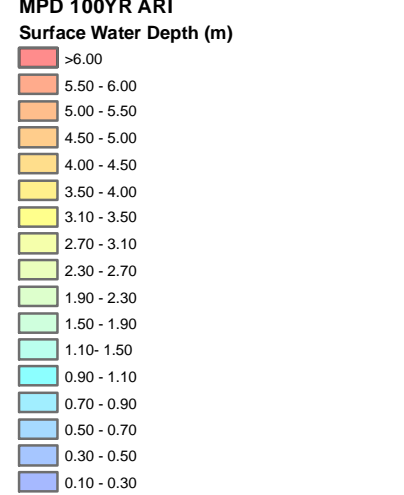
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Tamahere Catchment Master Planning
Drainage System Map - 18 of 39



- Legend**
- Map Index
 - ArcPhoto location with direction indicator
 - Hyperlink for Overland Flow Path
 - Culverts (Identified onsite)
 - Overland Flowpaths/Private Property Drains
 - Road Drainage
 - Overland Flowpaths/Property Drain Buffer10m
 - Manhole
 - Sump
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 - Tamahere Catchment Flowpath (overview)
 - Tamahere Catchment



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
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					W.DING	Sept. 2011
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					V.CHANDRA	Sept. 2011

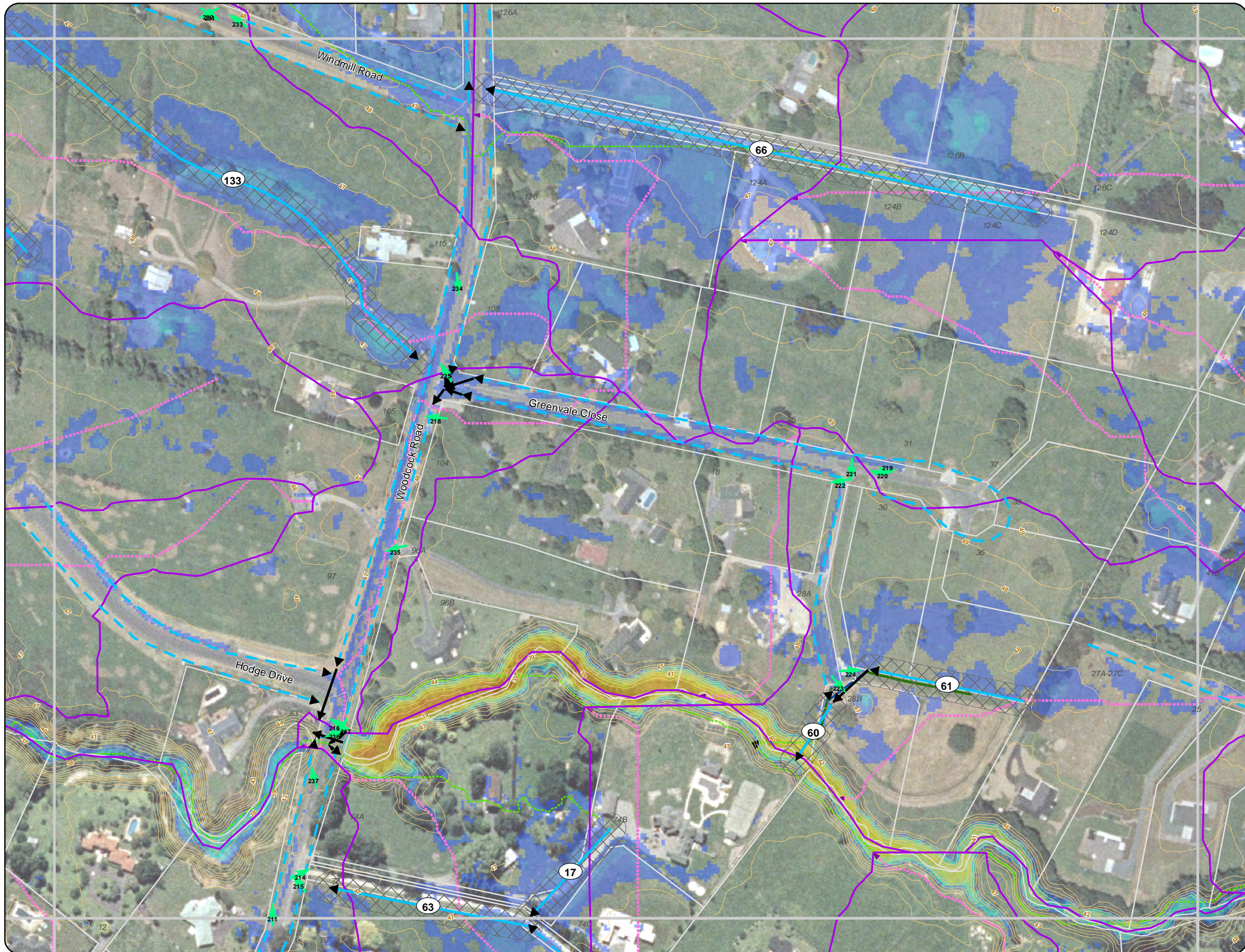
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Tamahere Catchment Master Planning
Drainage System Map - 19 of 39



Legend

- Map Index
- ArcPhoto location with direction indicator
- Hyperlink for Overland Flow Path
- Culverts (Identified onsite)
- Overland Flowpaths/Private Property Drains
- Road Drainage
- Overland Flowpaths/Property Drain Buffer10m
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- Tamahere Catchment

MPD 100YR ARI
Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
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Tamahere

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REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
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					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

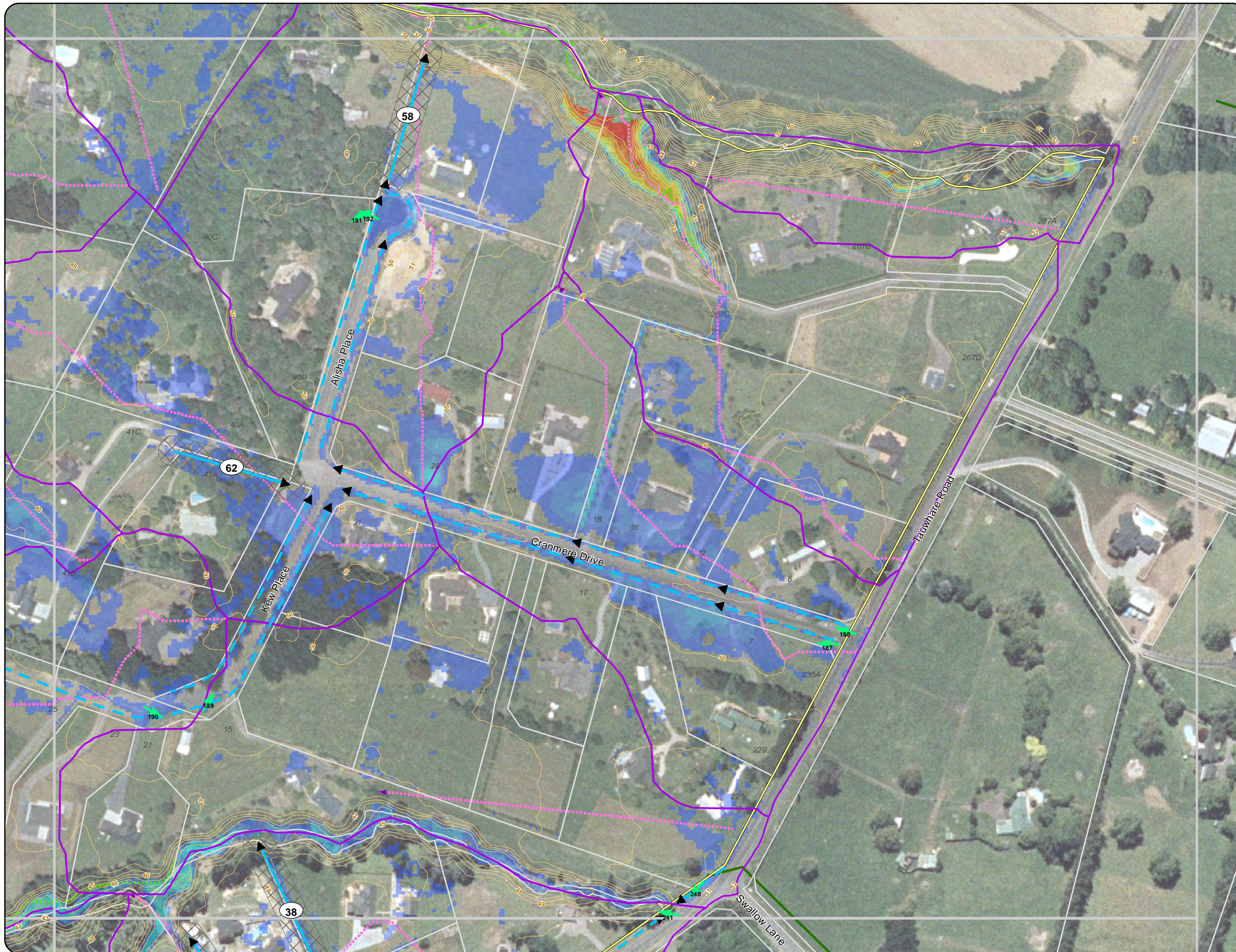
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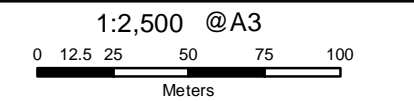
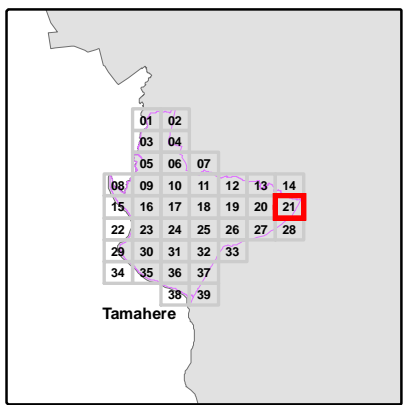
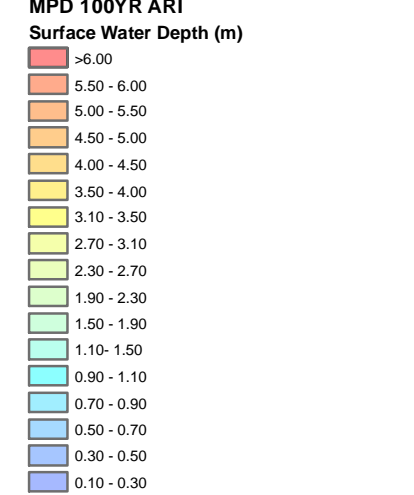
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 Fax: (09) 307 7300

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Tamahere Catchment Master Planning
 Drainage System Map - 20 of 39



- Legend**
- Map Index
 - ArcPhoto location with direction indicator
 - Hyperlink for Overland Flow Path
 - Culverts (Identified onsite)
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 - Gravity Main
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 - 1m Contours
 - Property Boundary
 - Subcatchment Flowpath (general direction)
 - Subcatchments Tamahere
 - Tamahere Catchment Flowpath (overview)
 - Tamahere Catchment



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
					C.SUNUJ.CHEN	Sept. 2011
					W.DING	Sept. 2011
					V.CHANDRA	Sept. 2011
					V.CHANDRA	Sept. 2011

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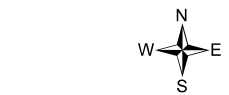
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Waikato
 DISTRICT COUNCIL

Tamahere Catchment Master Planning
 Drainage System Map - 21 of 39



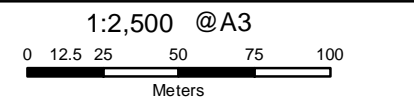
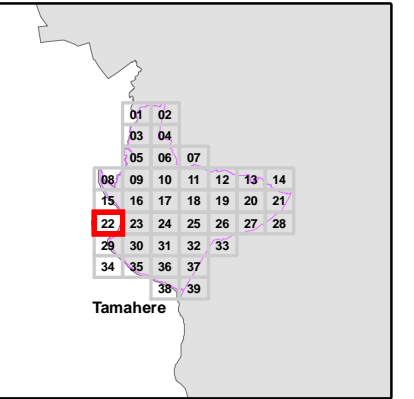
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- Map Index
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- Tamahere Catchment

MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

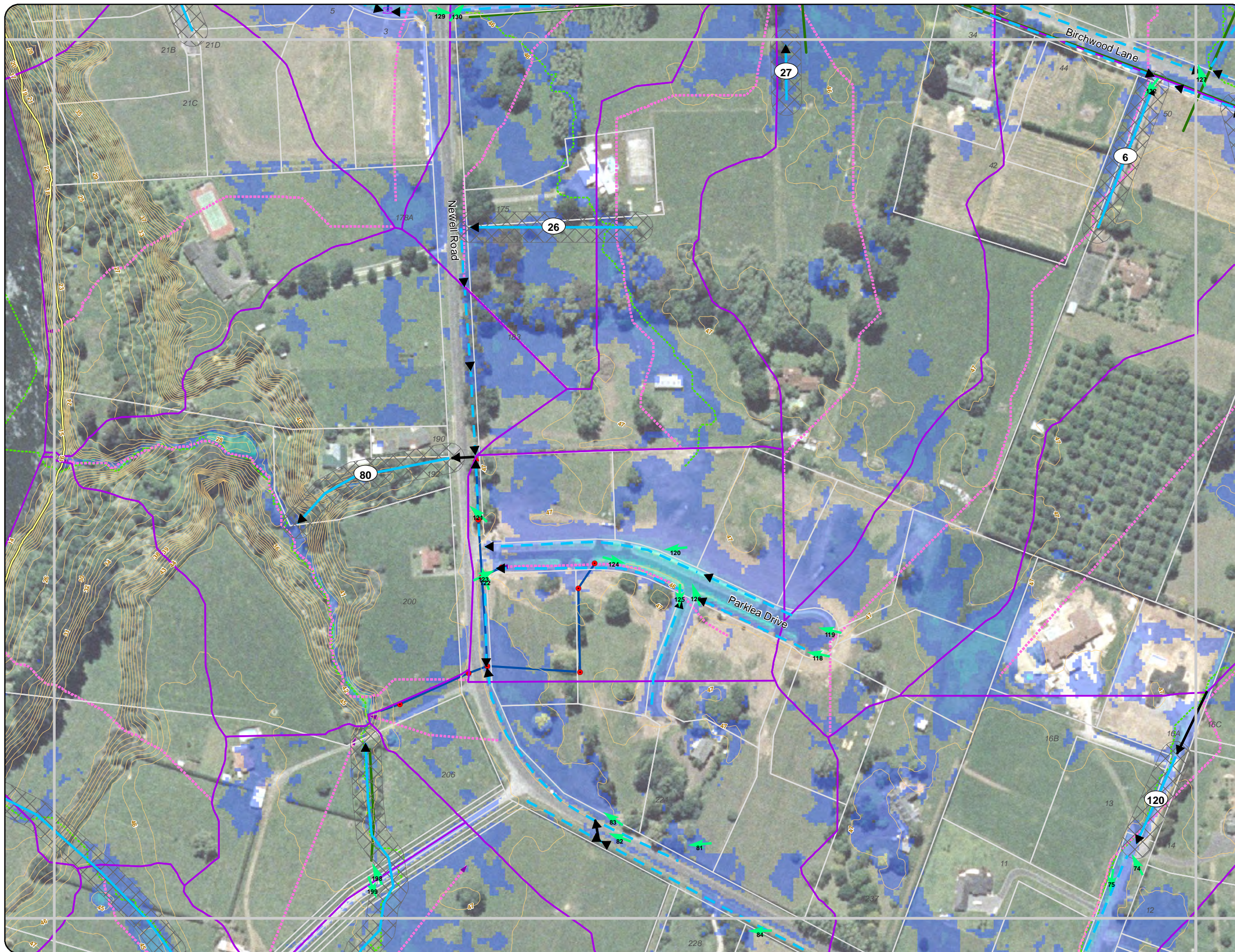
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Drainage System Map - 22 of 39

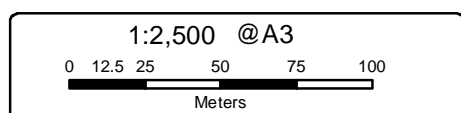
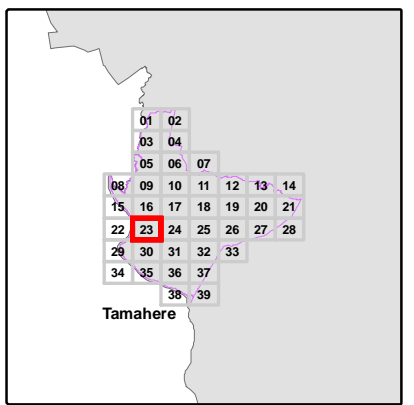


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**MPD 100YR ARI
Surface Water Depth (m)**

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
					DRAWN: C.SUNUJ.CHEN	Spet. 2011
					DESIGNED: W.DING	Spet. 2011
					CHECKED: V.CHANDRA	Spet. 2011
					APPROVED: V.CHANDRA	Spet. 2011

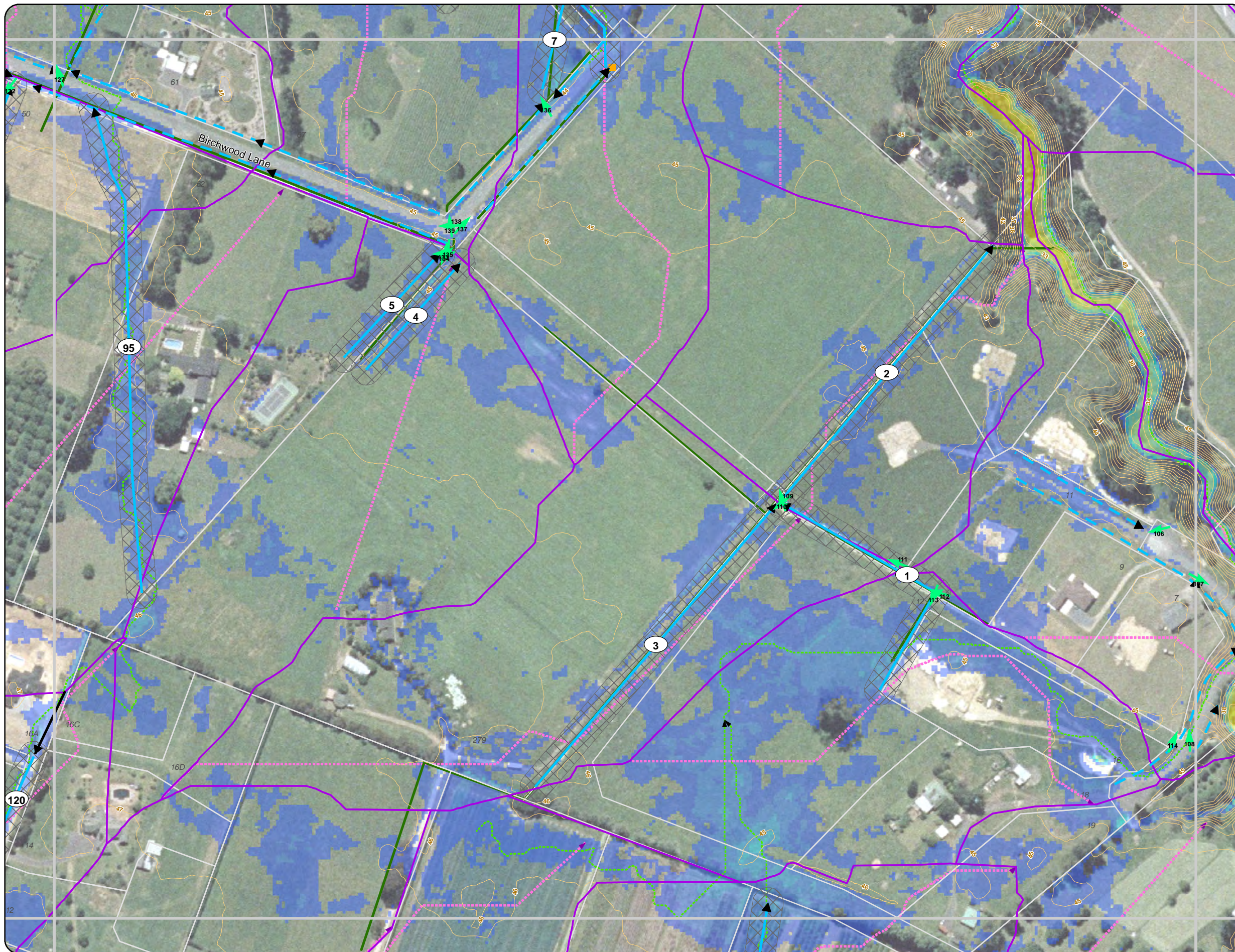
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Drainage System Map - 23 of 39

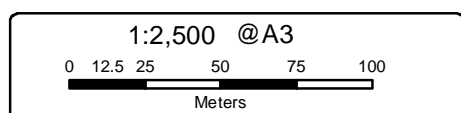
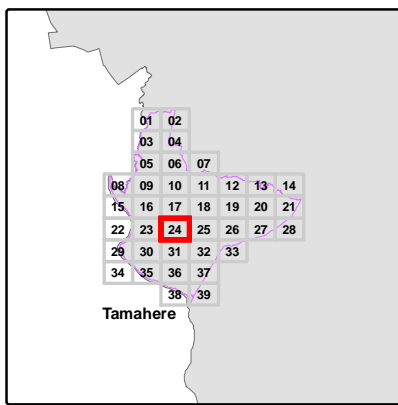


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**MPD 100YR ARI
Surface Water Depth (m)**

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
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					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

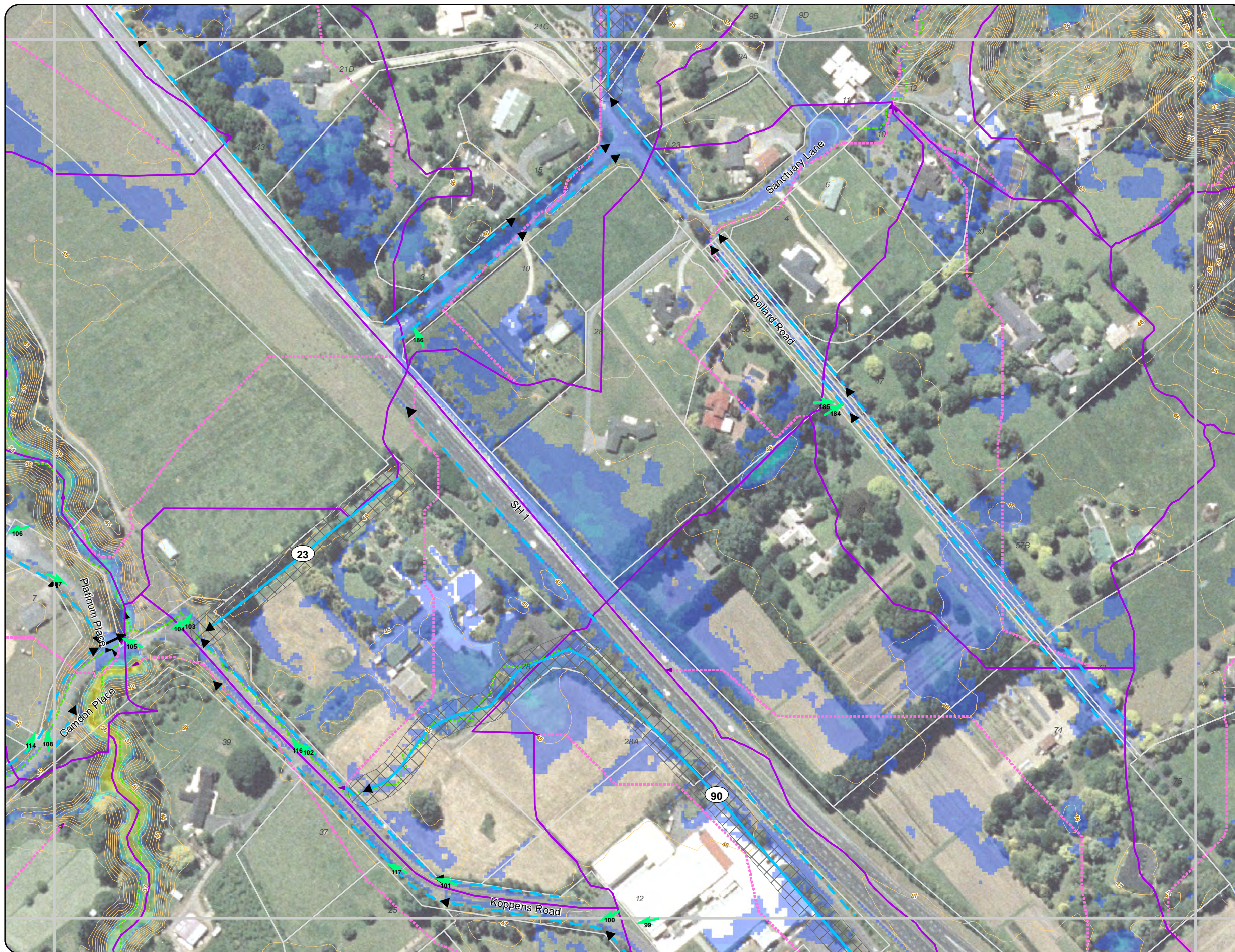
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Tamahere Catchment Master Planning
Drainage System Map - 24 of 39



Legend

- Map Index
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MPD 100YR ARI
Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30

Tamahere

1:2,500 @A3

0 12.5 25 50 75 100
Meters

REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

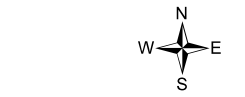
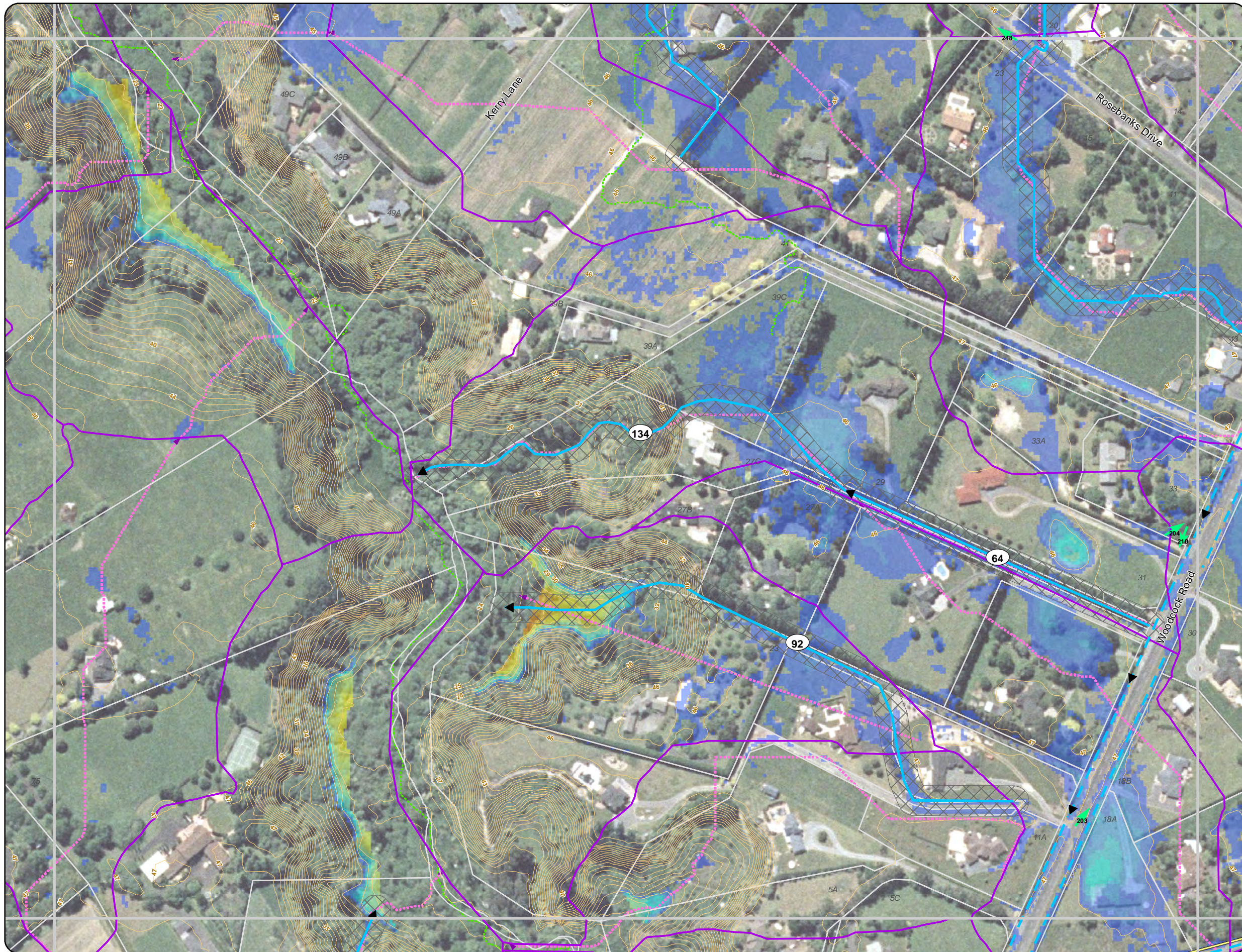
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 Drainage System Map - 25 of 39



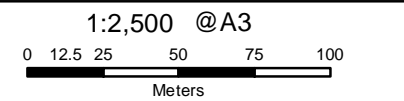
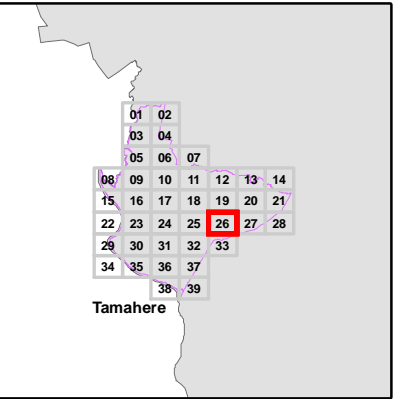
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MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
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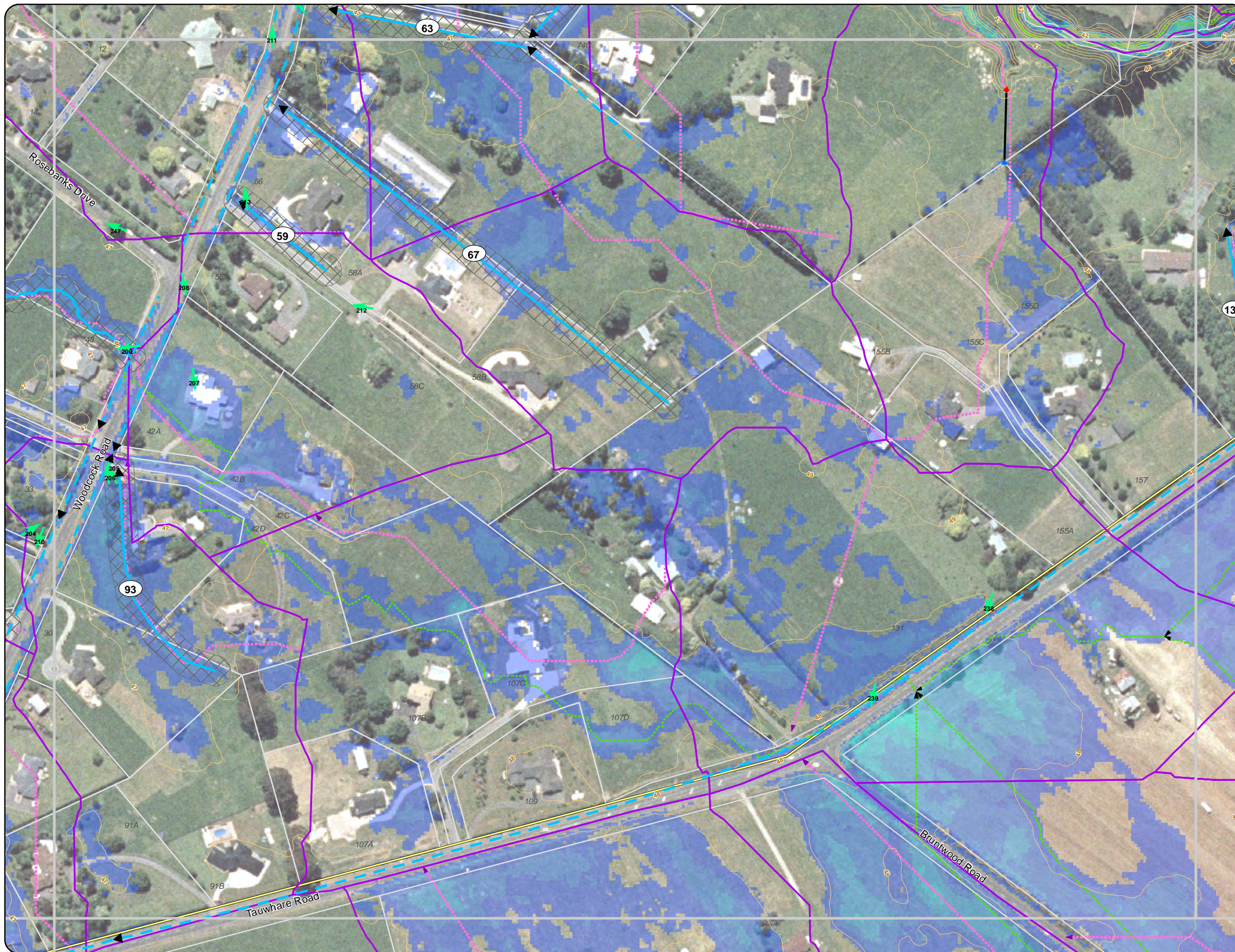
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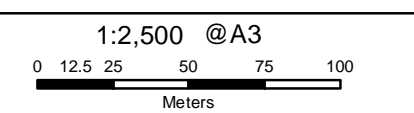
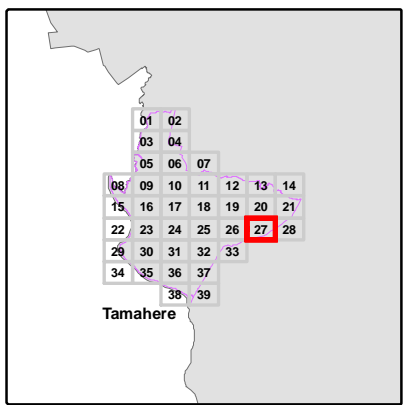
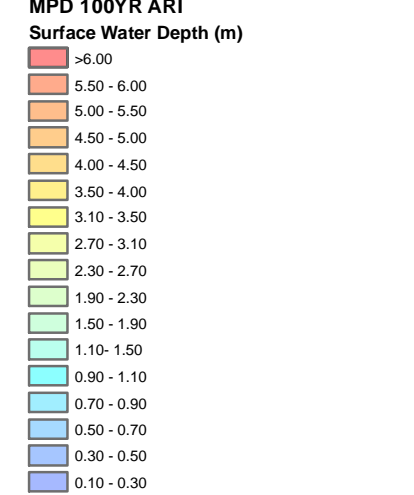
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Tamahere Catchment Master Planning
Drainage System Map - 26 of 39



- Legend**
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					C.SUNUJ.CHEN		Sept. 2011
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					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

FILE Path: G:\5130162\GIS\MXD\51_30162_G002_RevA_Figure 2_Drainage System Overland Flowpath_May_2012.mxd

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Tamahere Catchment Master Planning
Drainage System Map - 27 of 39



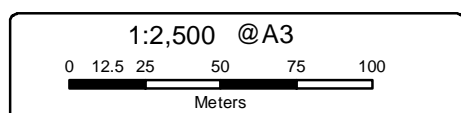
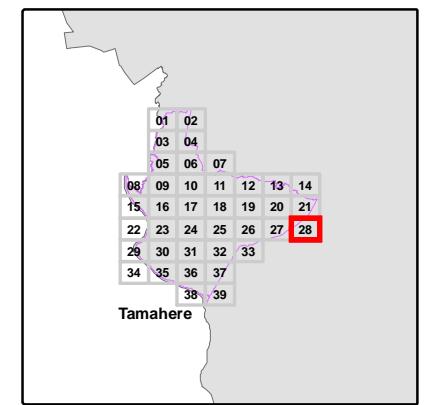
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MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
					DRAWN: C.SUNUJ.CHEN	Sept. 2011
					DESIGNED: W.DING	Sept. 2011
					CHECKED: V.CHANDRA	Sept. 2011
					APPROVED: V.CHANDRA	Sept. 2011

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Tamahere Catchment Master Planning
Drainage System Map - 28 of 39



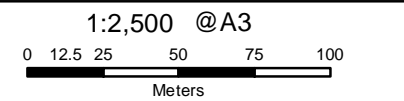
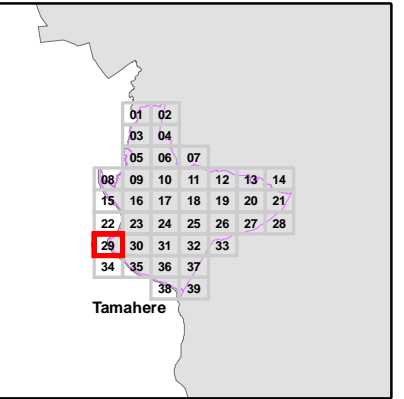
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- Map Index
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MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
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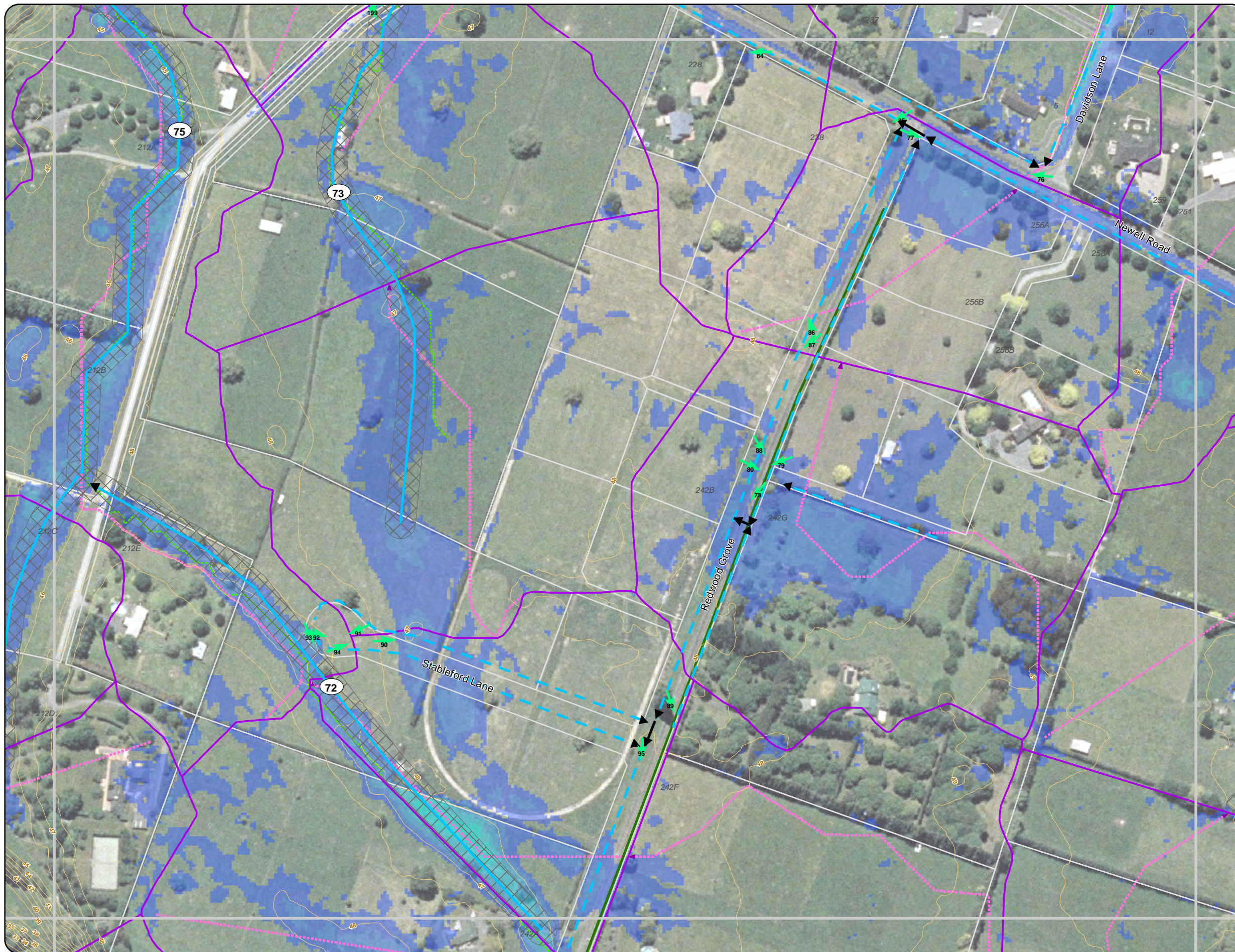
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Drainage System Map - 29 of 39



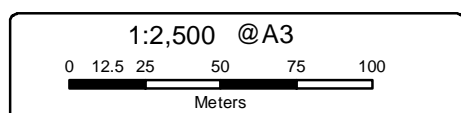
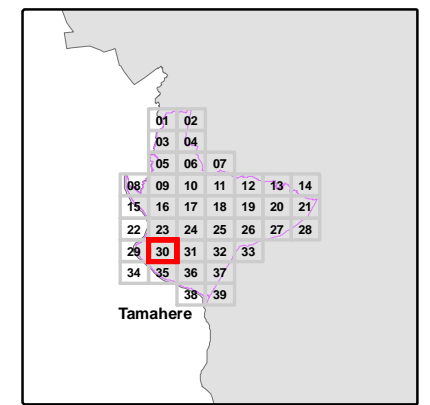
Legend

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MPD 100YR ARI

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- 1.10 - 1.50
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- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
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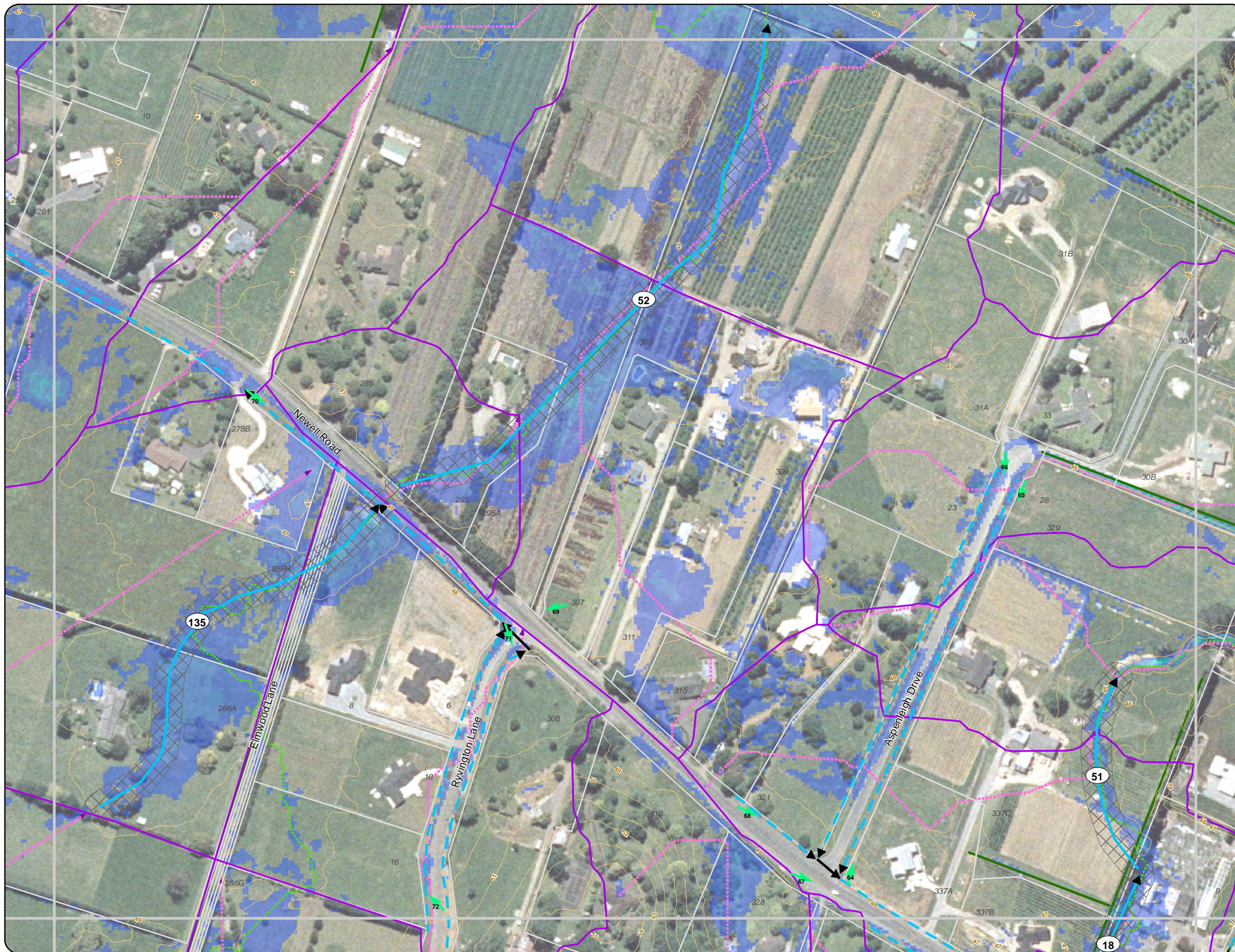
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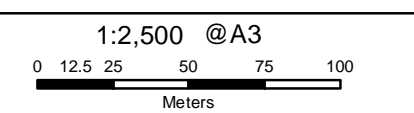
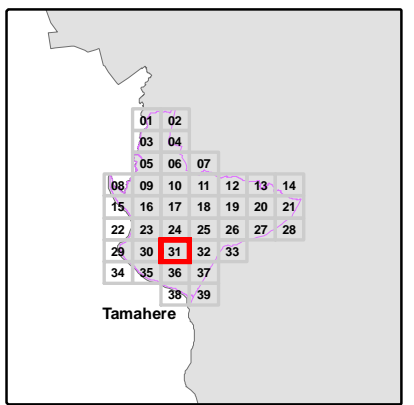
Client

Tamahere Catchment Master Planning
Drainage System Map - 30 of 39



- Legend**
- Map Index
 - ArcPhoto location with direction indicator
 - Hyperlink for Overland Flow Path
 - Culverts (Identified onsite)
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- MPD 100YR ARI**
Surface Water Depth (m)
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 - 5.00 - 5.50
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 - 2.30 - 2.70
 - 1.90 - 2.30
 - 1.50 - 1.90
 - 1.10 - 1.50
 - 0.90 - 1.10
 - 0.70 - 0.90
 - 0.50 - 0.70
 - 0.30 - 0.50
 - 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

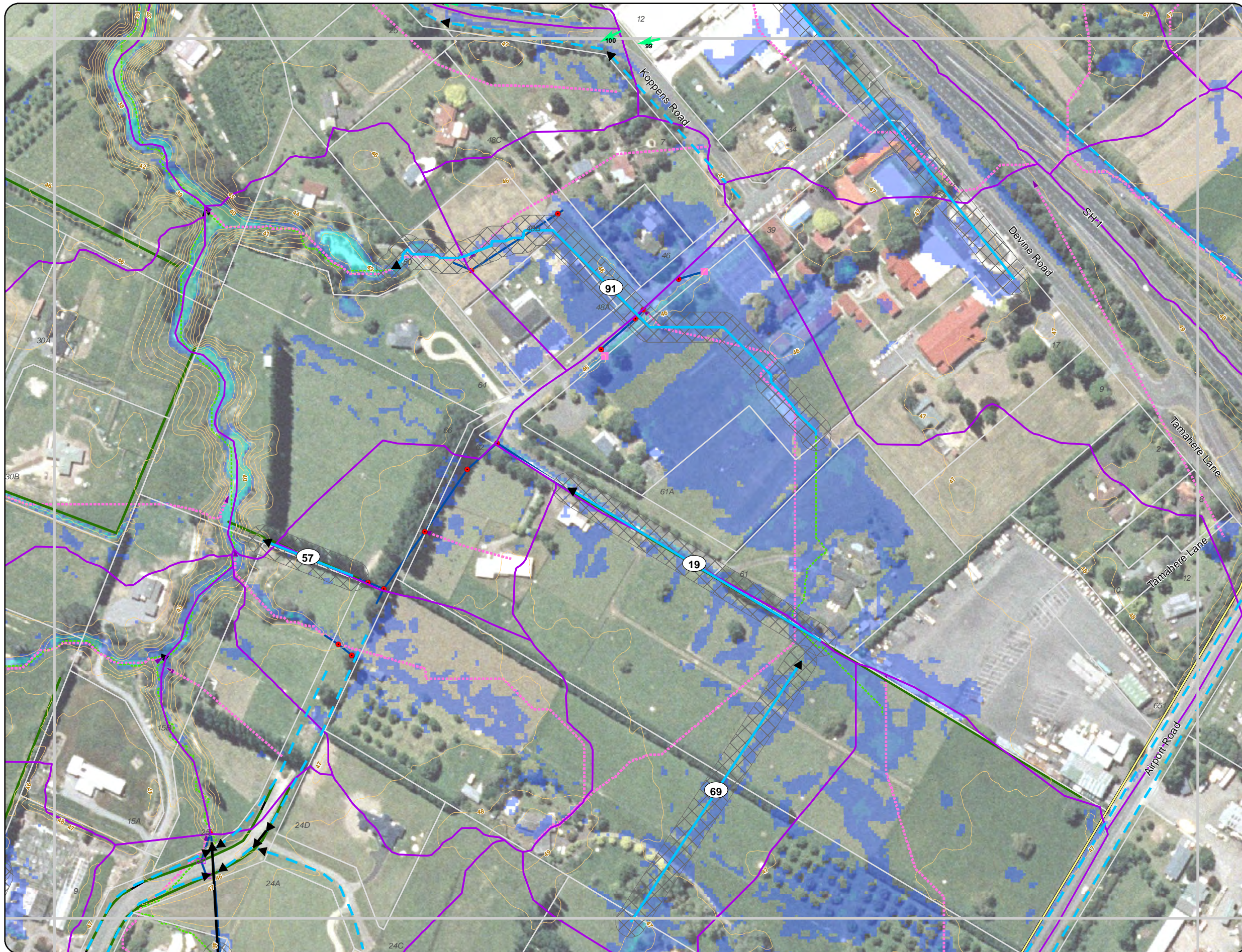
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Tamahere Catchment Master Planning
 Drainage System Map - 31 of 39



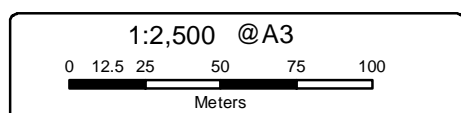
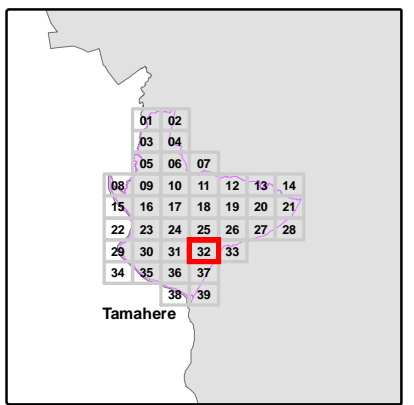
Legend

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- ArcPhoto location with direction indicator
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- Road Drainage
- Overland Flowpaths/Property Drain Buffer10m
- Manhole
- Sump
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- Catchpit
- Bubble up chamber
- Culvert (Asset Data)
- Gravity Main
- Maintained Open Drain
- 1m Contours
- Property Boundary
- Subcatchment Flowpath (general direction)
- Subcatchments Tamahere
- Tamahere Catchment Flowpath (overview)
- Tamahere Catchment

MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
					W.DING		Sept. 2011
					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

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Tamahere Catchment Master Planning
 Drainage System Map - 32 of 39



Legend

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- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30

Tamahere

1:2,500 @A3

Meters

REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNJ.CHEN		Spet. 2011
					W.DING		Spet. 2011
					V.CHANDRA		Spet. 2011
					V.CHANDRA		Spet. 2011

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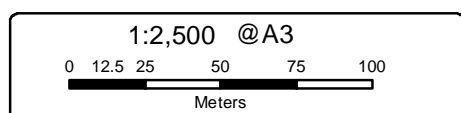
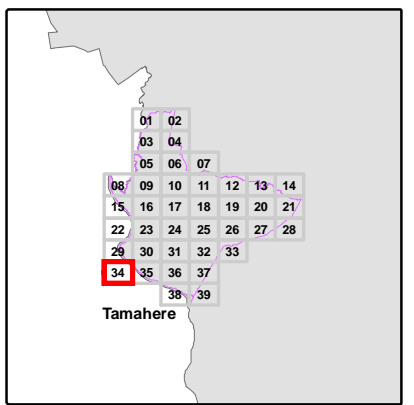
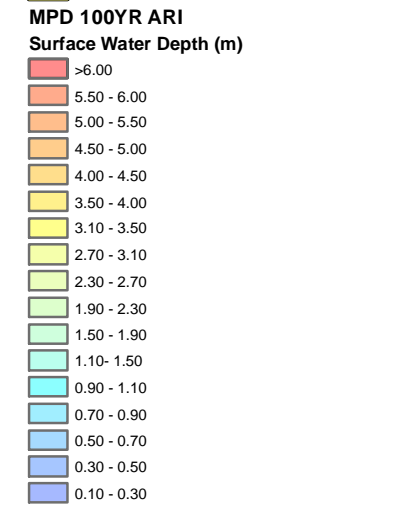
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Drainage System Map - 33 of 39



- Legend**
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					V.CHANDRA		Sept. 2011
					V.CHANDRA		Sept. 2011

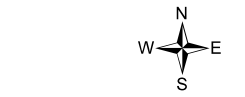
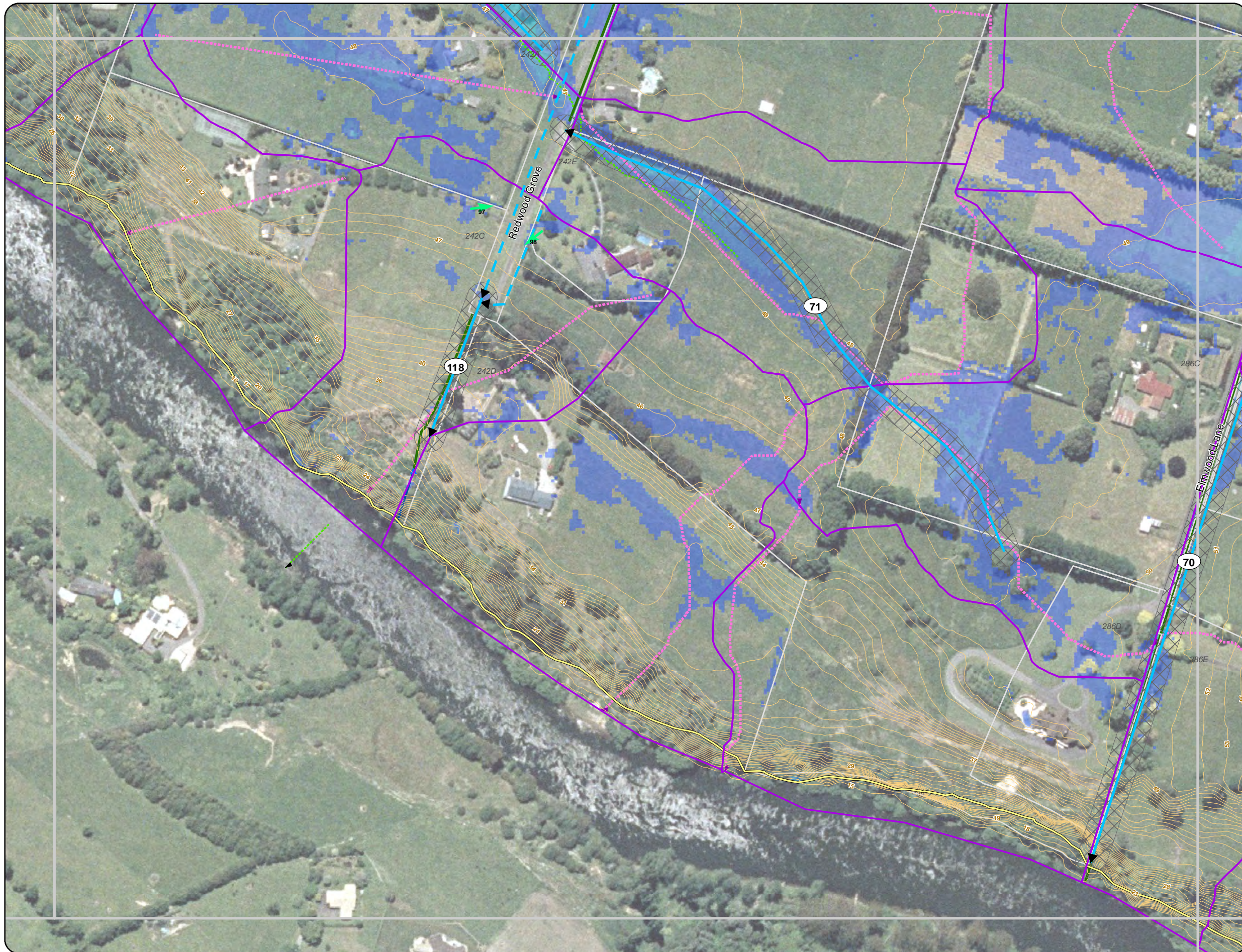
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Drainage System Map - 34 of 39



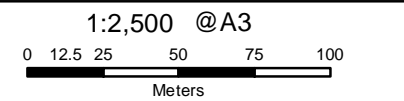
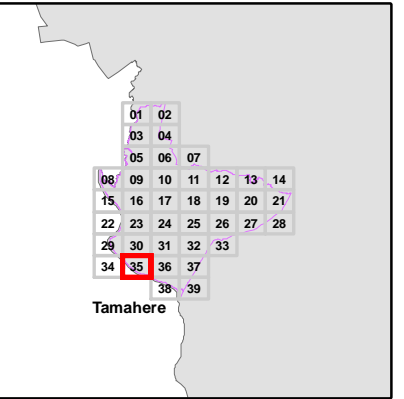
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MPD 100YR ARI

Surface Water Depth (m)

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
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Drainage System Map - 35 of 39

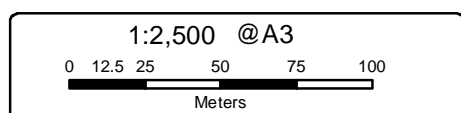
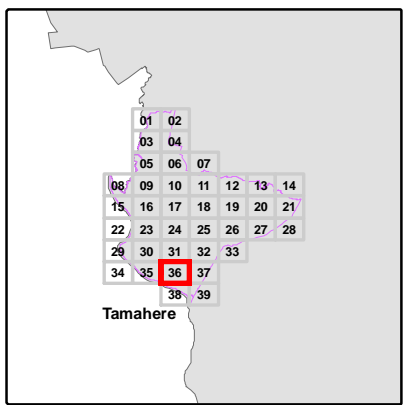


Legend

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**MPD 100YR ARI
Surface Water Depth (m)**

- >6.00
- 5.50 - 6.00
- 5.00 - 5.50
- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
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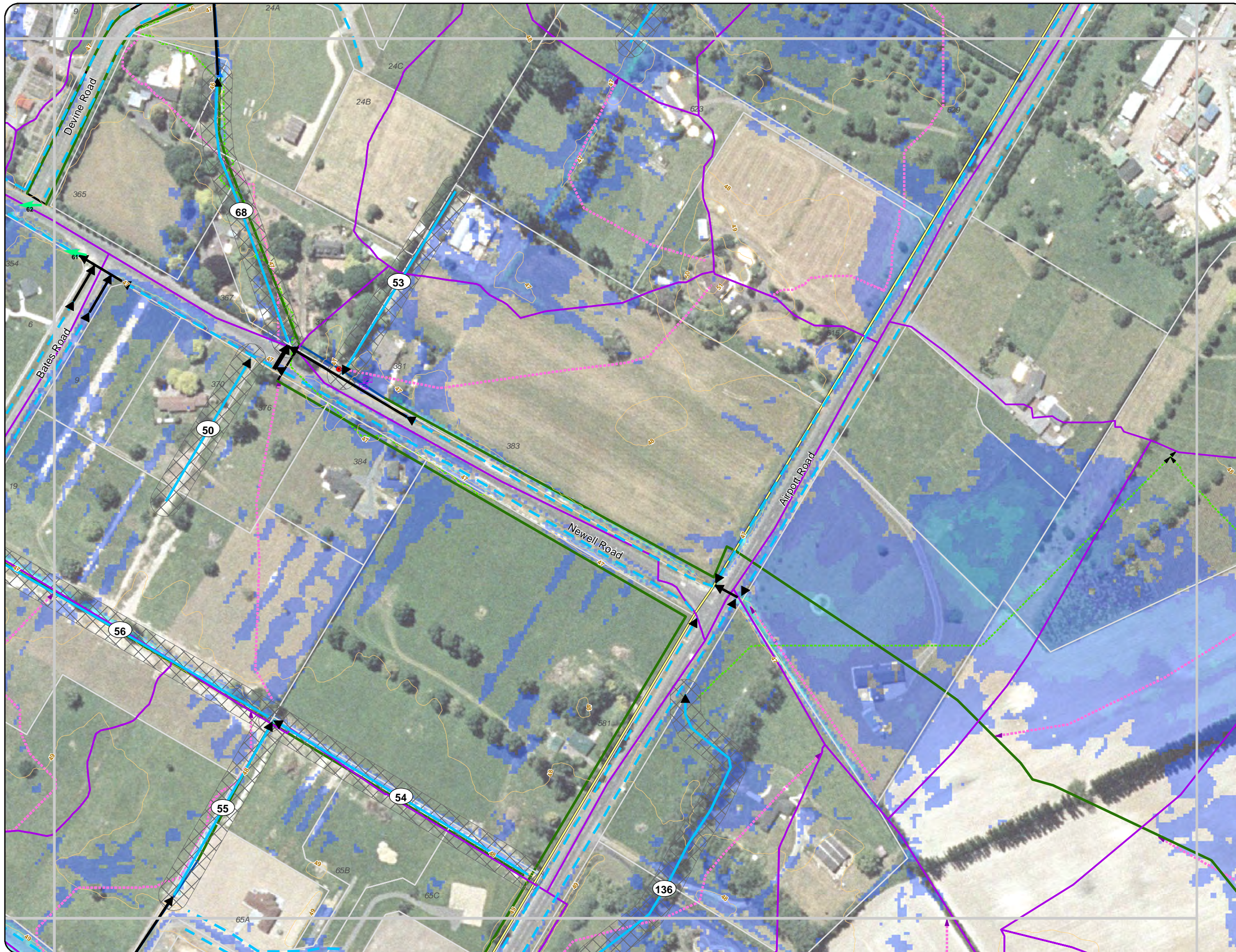
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Drainage System Map - 36 of 39



Legend

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MPD 100YR ARI

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- 5.50 - 6.00
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- 4.00 - 4.50
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- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
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- 0.10 - 0.30

Tamahere

1:2,500 @A3

Meters

REV	AMENDMENTS	BY	APPD	DATE	DRAWN	NAME	DATE
					C.SUNUJ.CHEN		Sept. 2011
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					V.CHANDRA		Sept. 2011
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Drainage System Map - 37 of 39

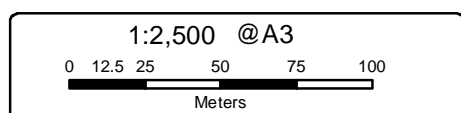
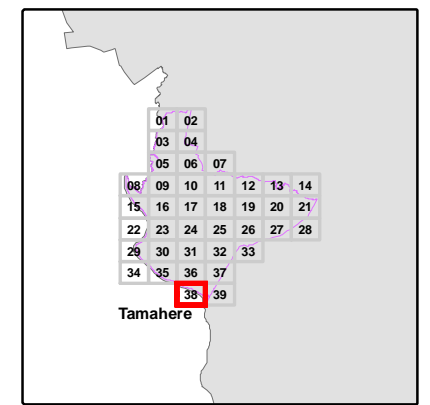


Legend

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**MPD 100YR ARI
Surface Water Depth (m)**

- >6.00
- 5.50 - 6.00
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- 4.50 - 5.00
- 4.00 - 4.50
- 3.50 - 4.00
- 3.10 - 3.50
- 2.70 - 3.10
- 2.30 - 2.70
- 1.90 - 2.30
- 1.50 - 1.90
- 1.10 - 1.50
- 0.90 - 1.10
- 0.70 - 0.90
- 0.50 - 0.70
- 0.30 - 0.50
- 0.10 - 0.30



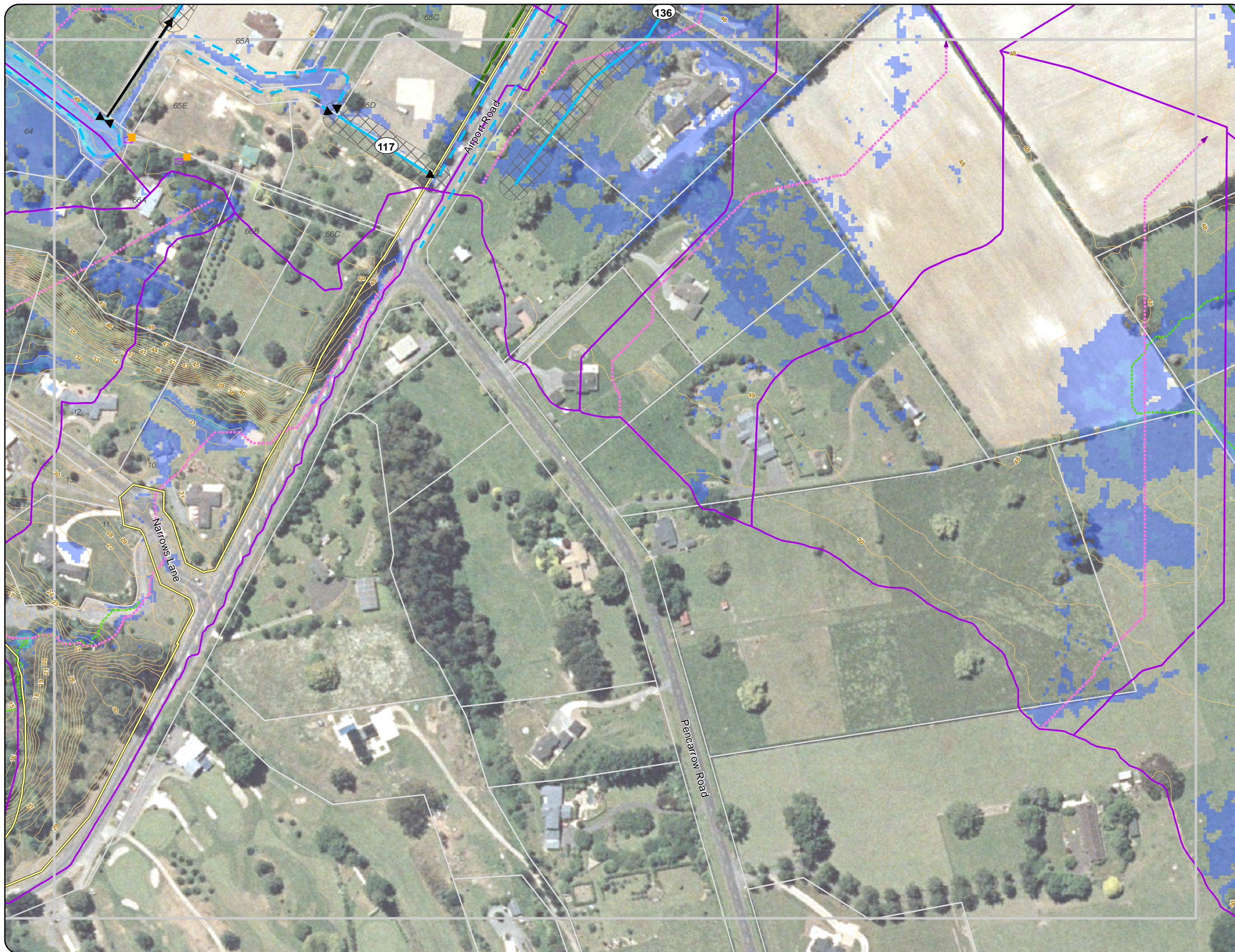
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					DRAWN: C.SUNJ.CHEN	Sept. 2011
					DESIGNED: W.DING	Sept. 2011
					CHECKED: V.CHANDRA	Sept. 2011
					APPROVED: V.CHANDRA	Sept. 2011

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Tamahere Catchment Master Planning
Drainage System Map - 38 of 39



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Tamahere

1:2,500 @A3

Meters

REV	AMENDMENTS	BY	APPD	DATE	NAME	DATE
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