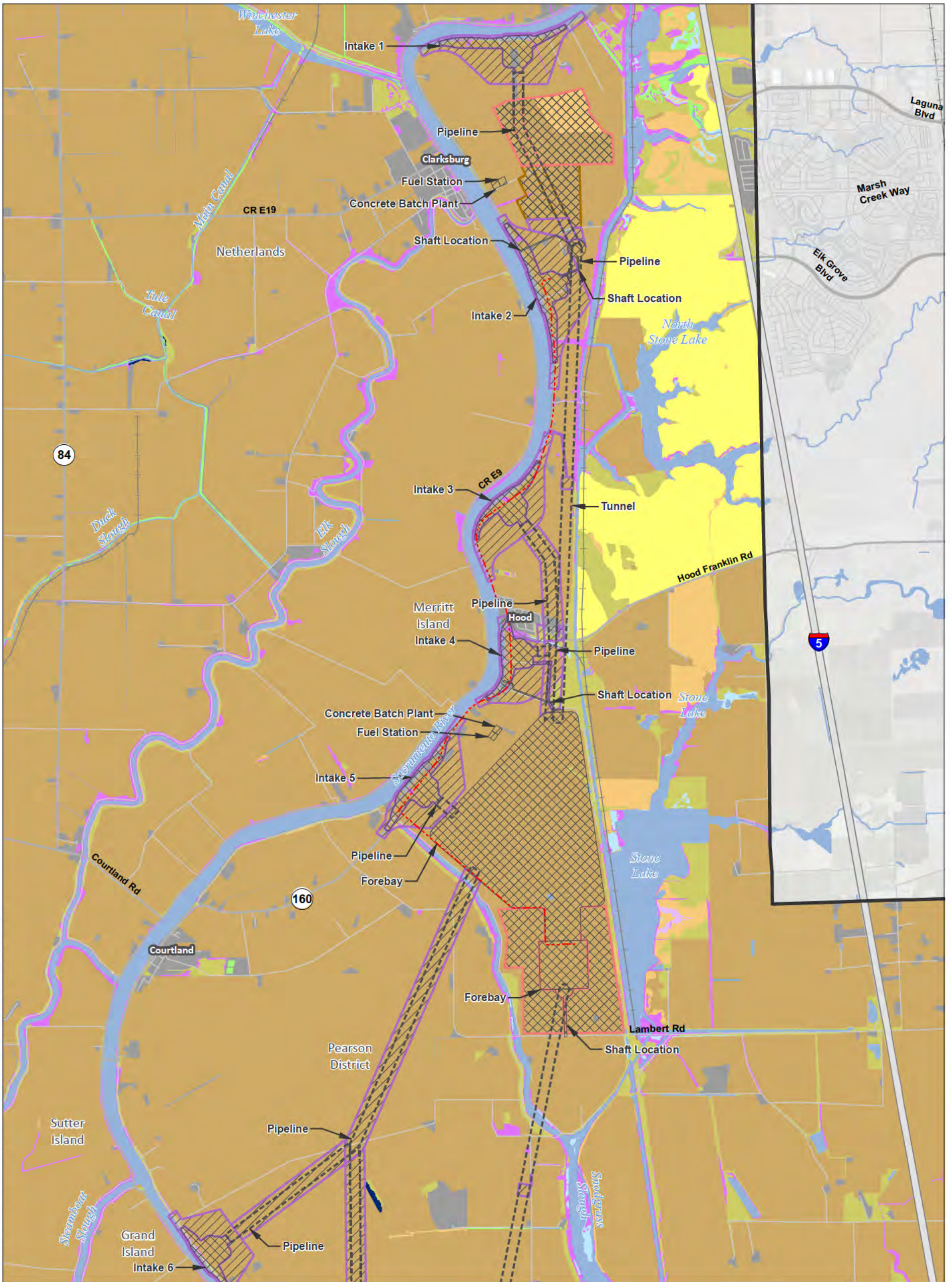


Figure M12-1: Index Distribution of Natural Communities — Pipeline/Tunnel Alignment

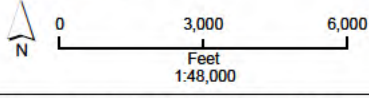


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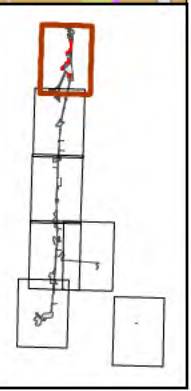
Refer to mapbook index page for conveyance construction footprint symbology

Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |

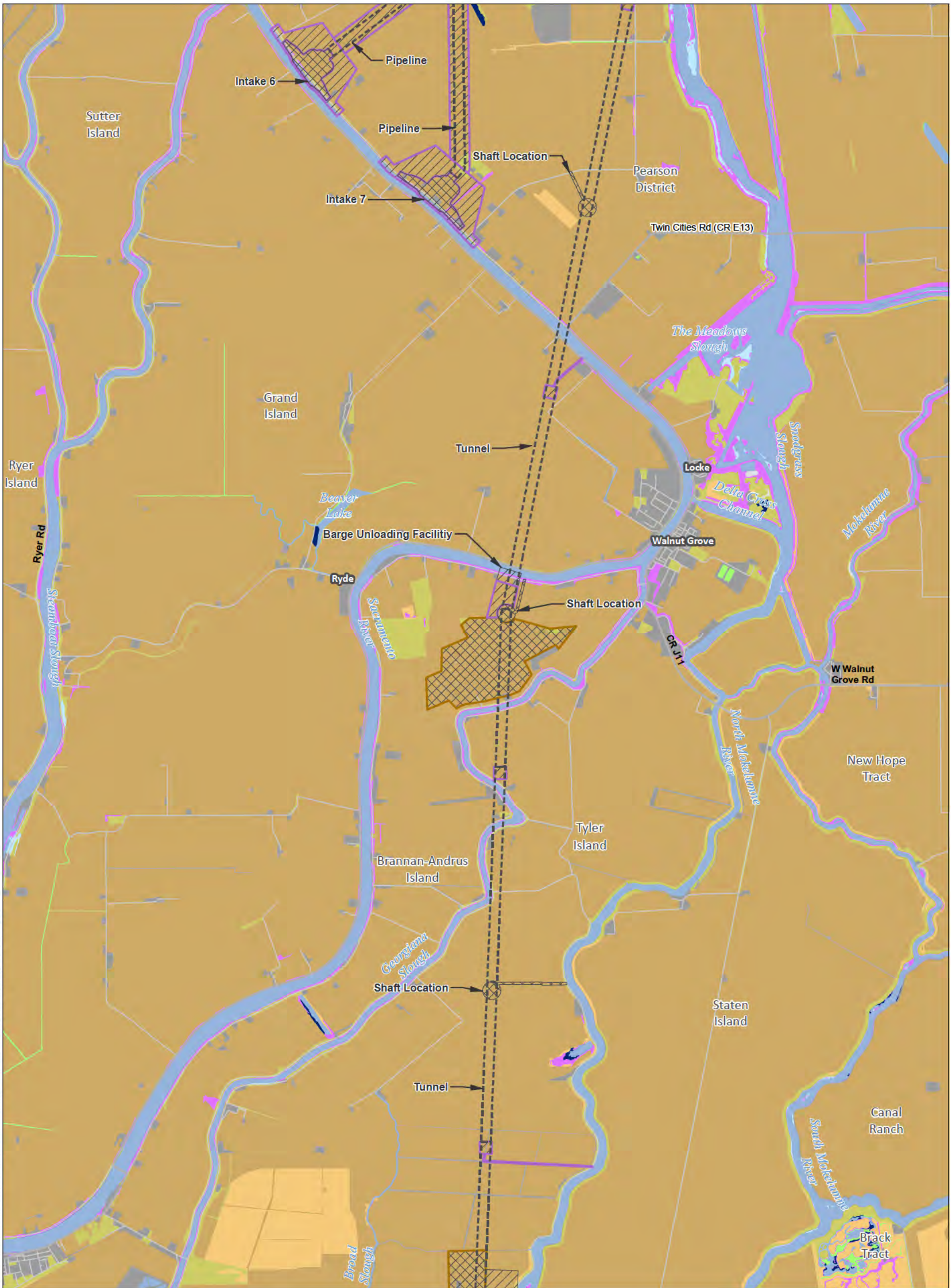


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint [rev 10b]; Natural Communities, ICF 2011

**Figure M12-1: Sheet 1 of 7
Distribution of Natural Communities — Pipeline/Tunnel Alignment**



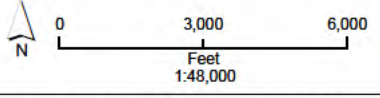
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Refer to mapbook index page for conveyance construction footprint symbology

Legend

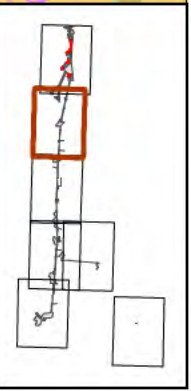
Natural Communities

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |



*Surface impacts are not expected to result from subsurface features.

**In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint [rev 10b]; Natural Communities, ICF 2011

Figure M12-1: Sheet 2 of 7 Distribution of Natural Communities — Pipeline/Tunnel Alignment



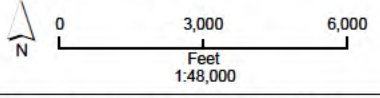
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Refer to mapbook index page for conveyance construction footprint symbology

Legend

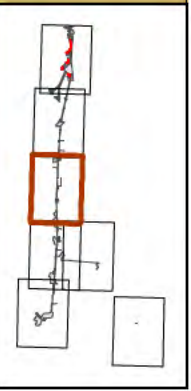
Natural Communities

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |



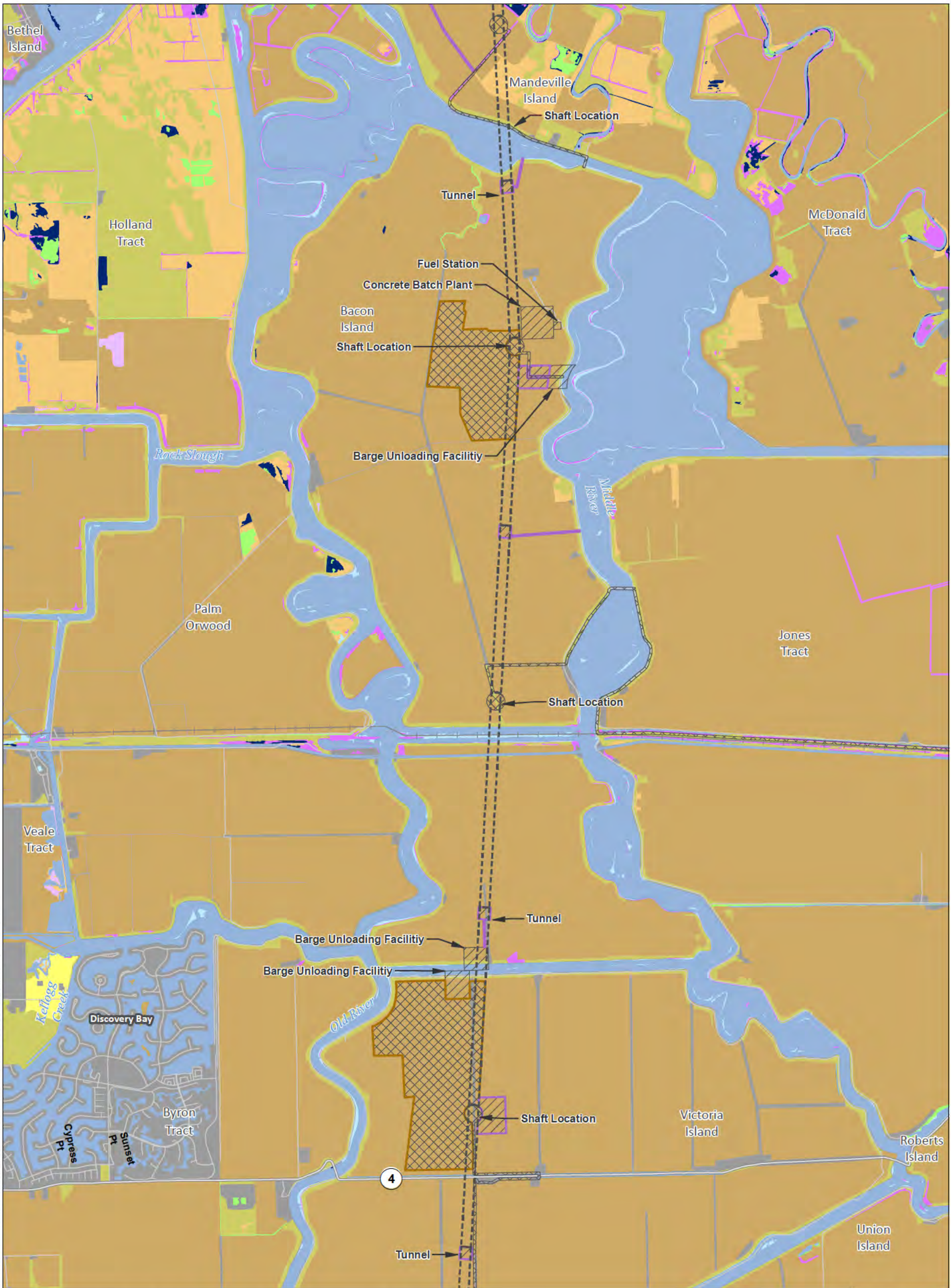
*Surface impacts are not expected to result from subsurface features.

**In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint [rev 10b]; Natural Communities, ICF 2011

**Figure M12-1: Sheet 3 of 7
Distribution of Natural Communities — Pipeline/Tunnel Alignment**



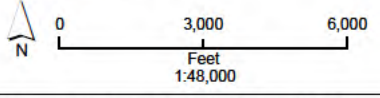
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Refer to mapbook index page for conveyance construction footprint symbology

Legend

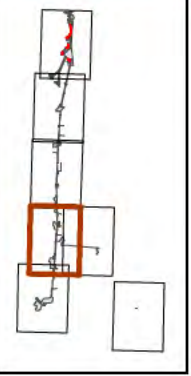
Natural Communities

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |



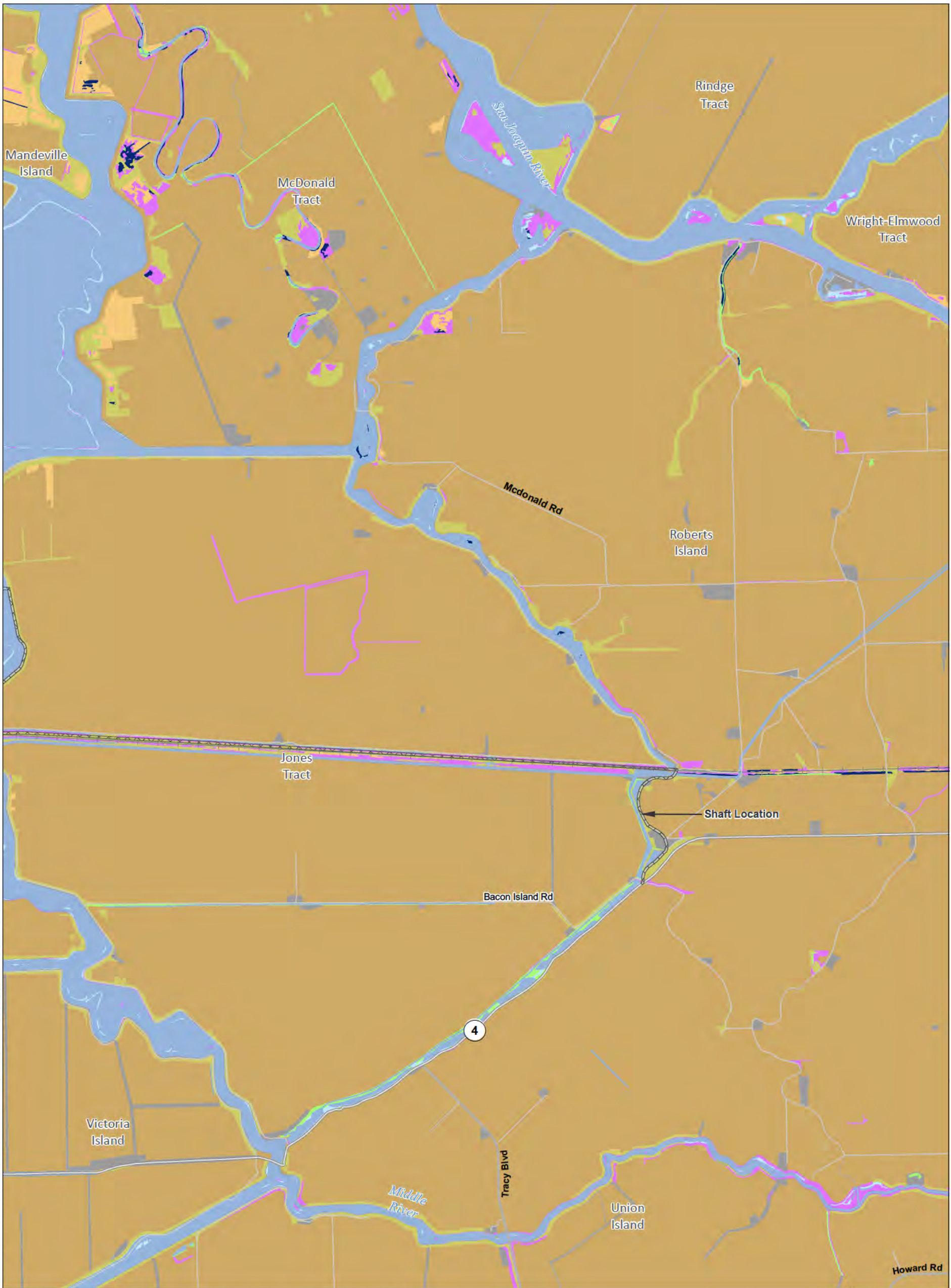
*Surface impacts are not expected to result from subsurface features.

**In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint [rev 10b]; Natural Communities, ICF 2011

**Figure M12-1: Sheet 4 of 7
Distribution of Natural Communities — Pipeline/Tunnel Alignment**



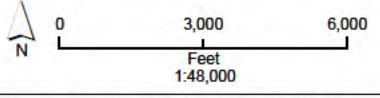
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Refer to mapbook index page for conveyance construction footprint symbology

Legend

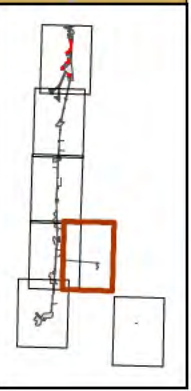
Natural Communities

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |



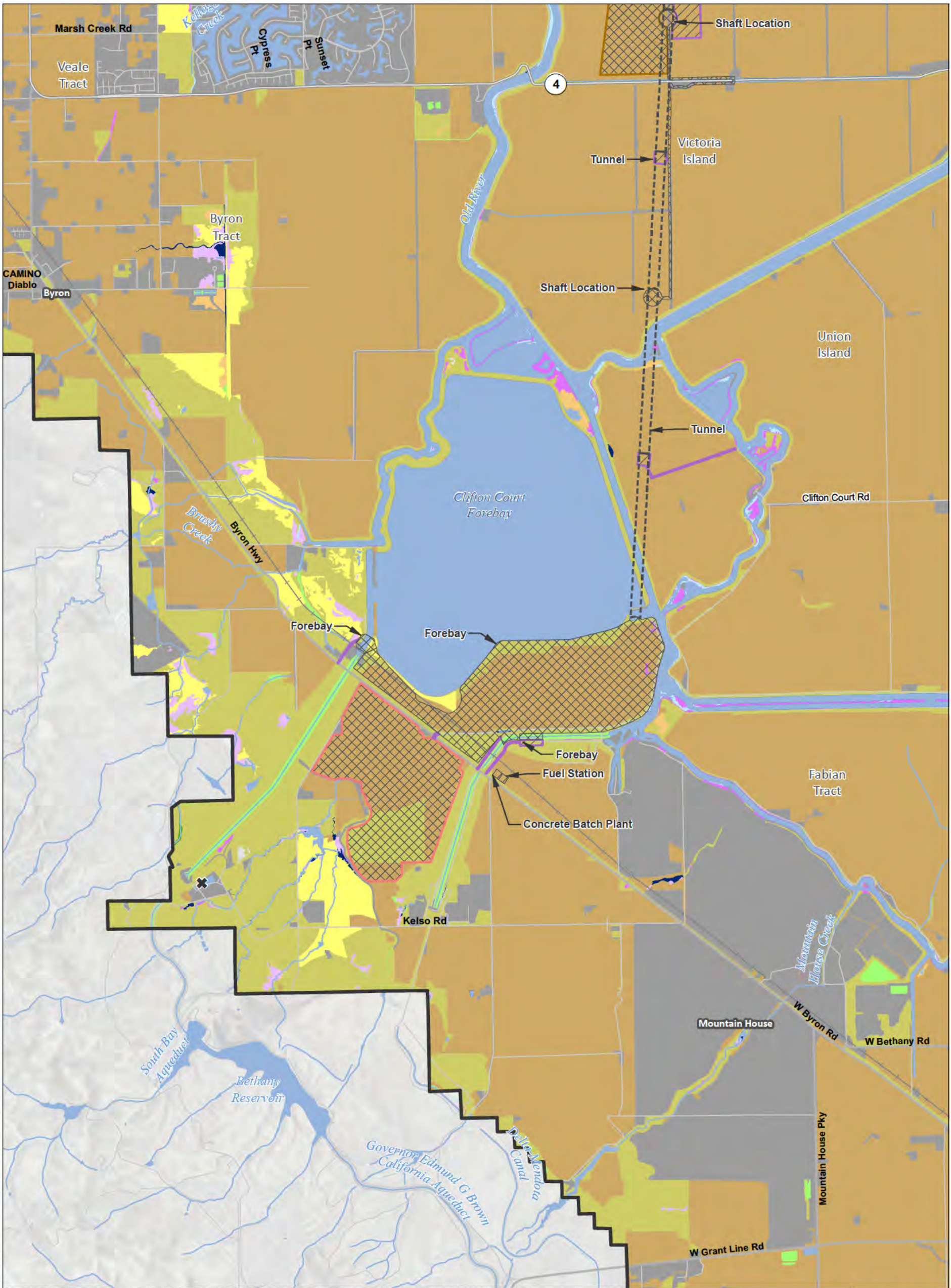
*Surface impacts are not expected to result from subsurface features.

**In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint [rev 10b]; Natural Communities, ICF 2011

**Figure M12-1: Sheet 5 of 7
Distribution of Natural Communities — Pipeline/Tunnel Alignment**

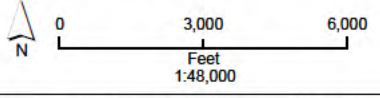


Refer to mapbook index page for conveyance construction footprint symbology

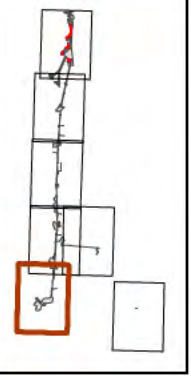
Legend

Natural Communities

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |



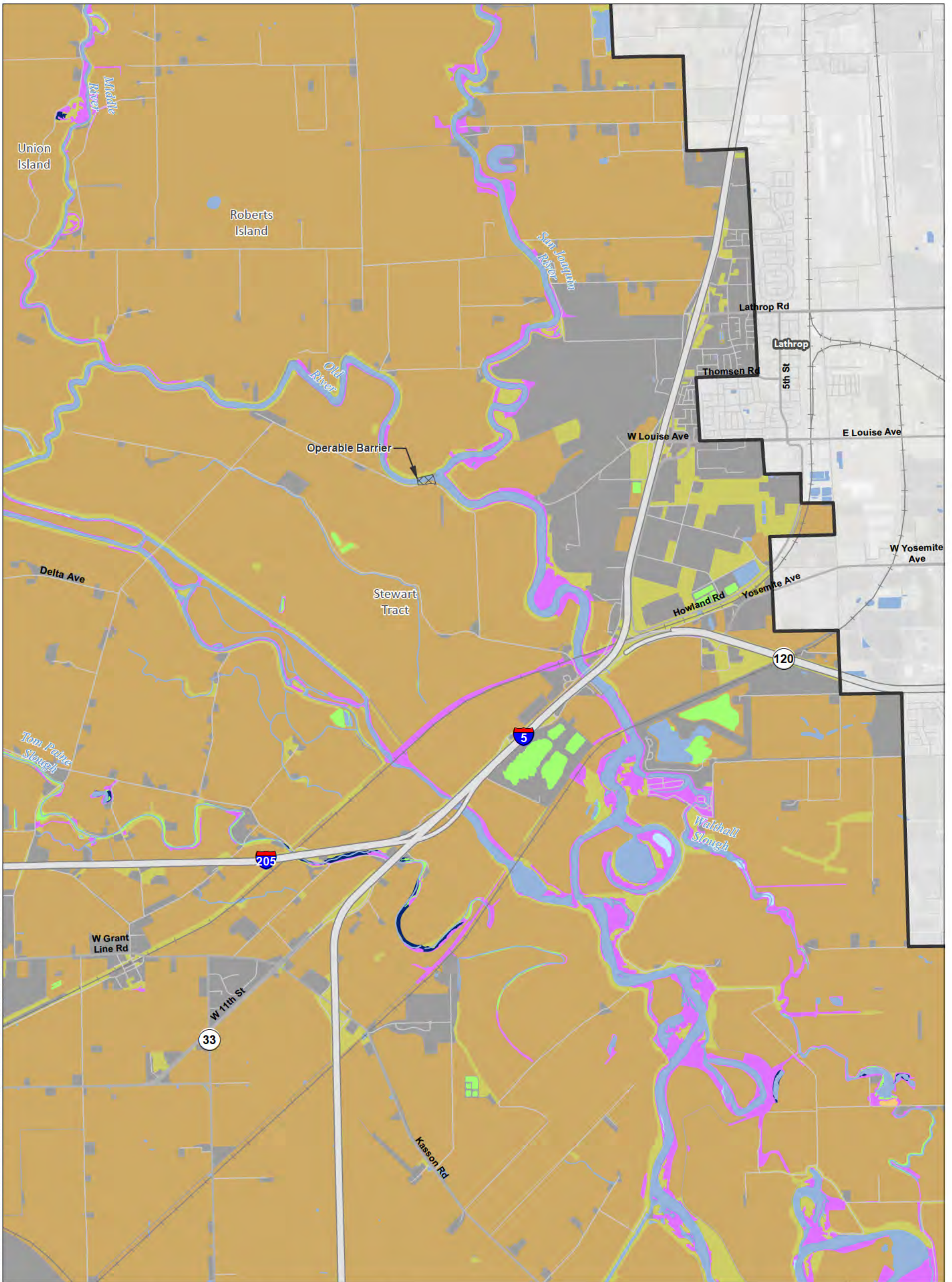
*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



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Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint [rev 10b]; Natural Communities, ICF 2011

Figure M12-1: Sheet 6 of 7 Distribution of Natural Communities — Pipeline/Tunnel Alignment



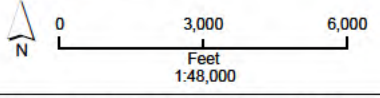
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Refer to mapbook index page for conveyance construction footprint symbology

Legend

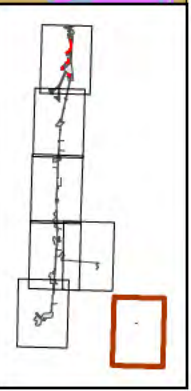
Natural Communities

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |



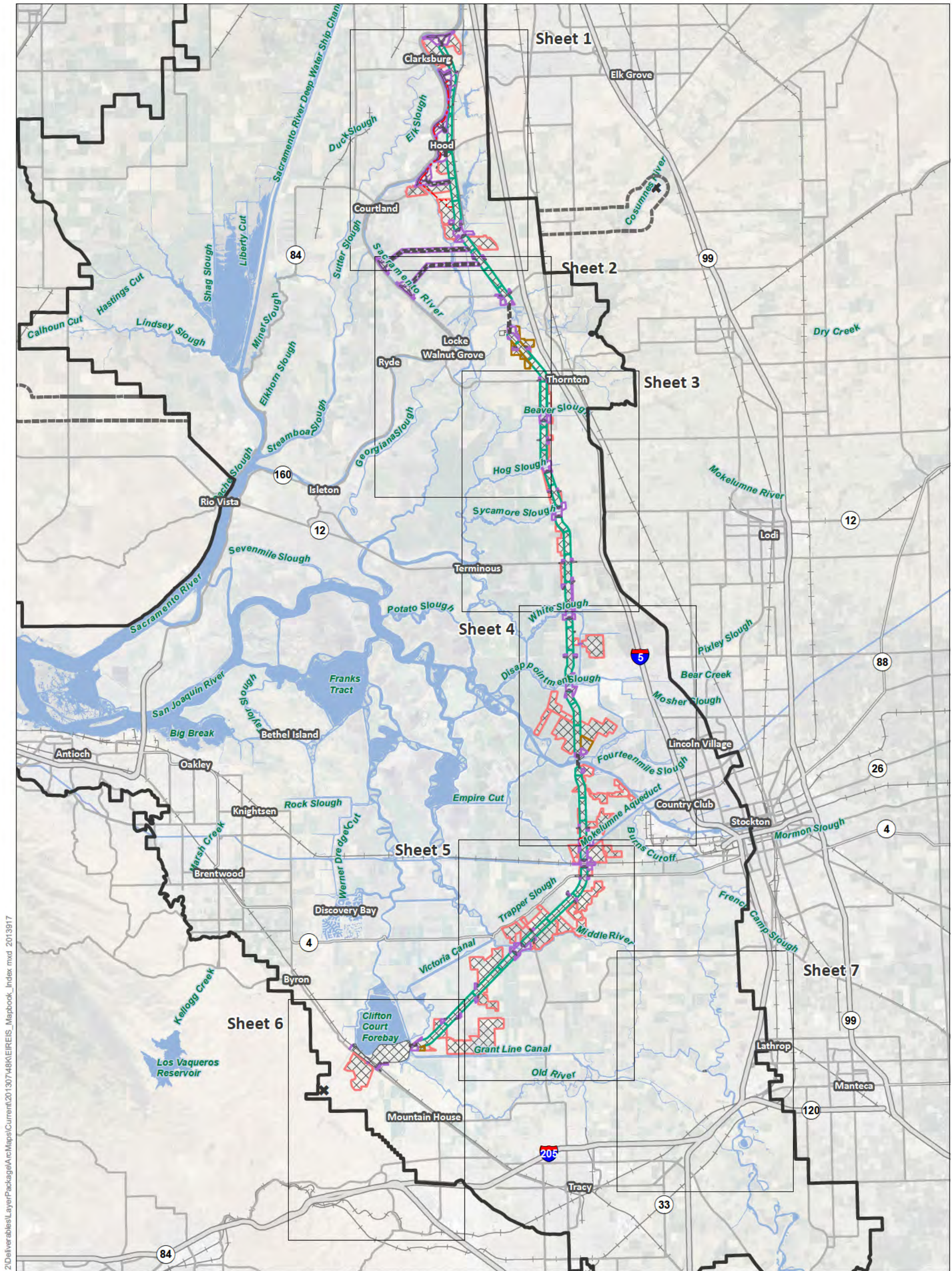
*Surface impacts are not expected to result from subsurface features.

**In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint [rev 10b]; Natural Communities, ICF 2011

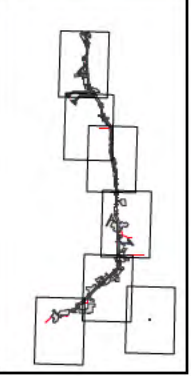
**Figure M12-1: Sheet 7 of 7
Distribution of Natural Communities — Pipeline/Tunnel Alignment**



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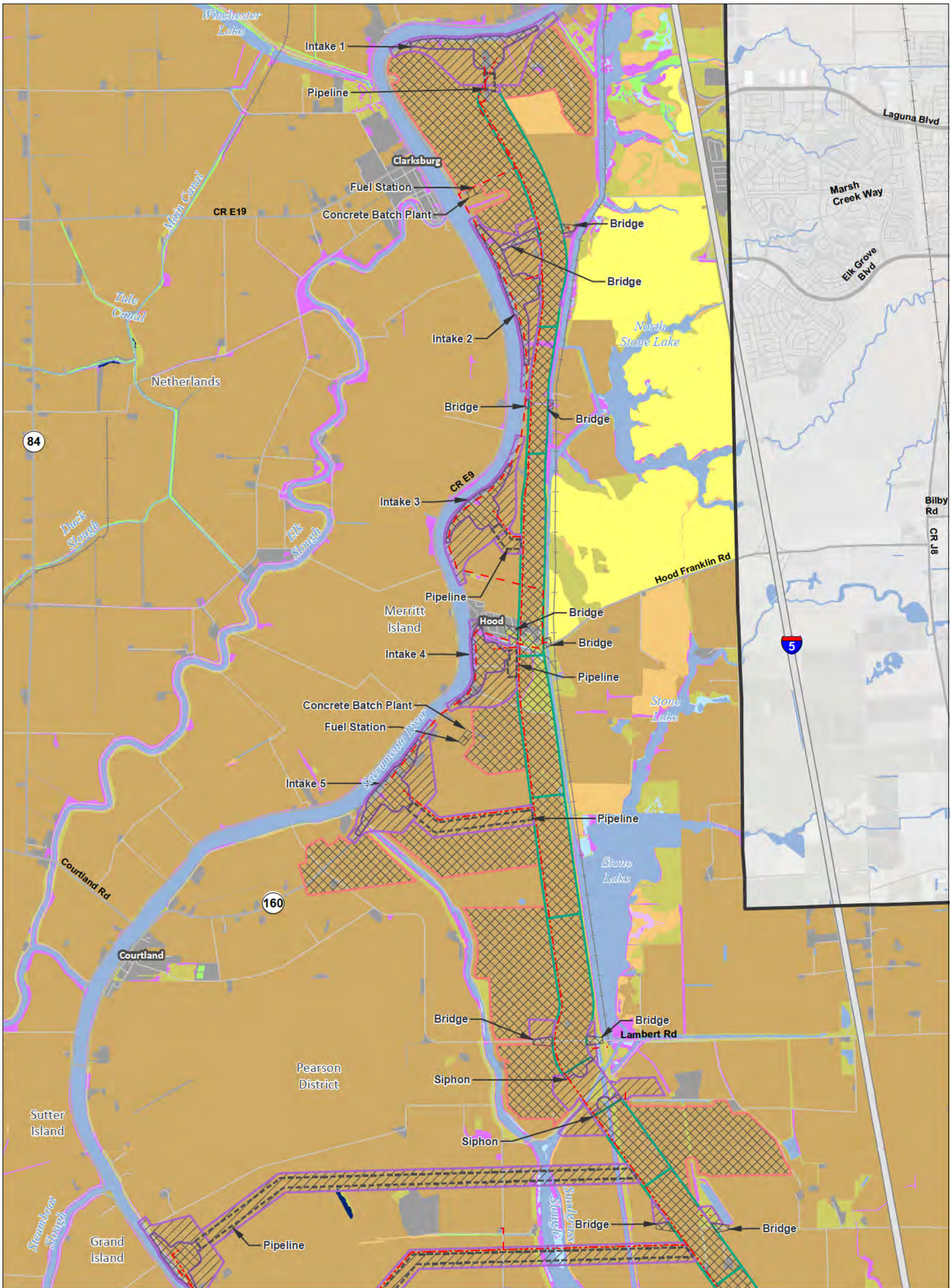
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Interstate	Conveyance Construction Footprint	Permanent Surface Impact	Proposed Power
State Highway/Route	Permanent Subsurface Impact	Borrow and/or Spoil	Interconnection Point
Railroad	Temporary Surface Impact	Pumping Plant	Permanent OH Transmission Line
Plan Area	Work Area	Reusable Tunnel Material	Temporary OH Transmission Line
Areas of Additional Analysis (Outside of Legal Delta; for Power Only)	Other	Other	
Water			

*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: DWR DHCCP Construction Footprint (rev 10b), ICF 2012; NA P 2012

Figure M12-2: Index Distribution of Natural Communities — East Alignment

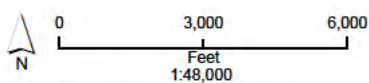


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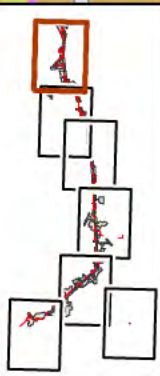
Refer to mapbook index page for conveyance construction footprint symbology

Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |

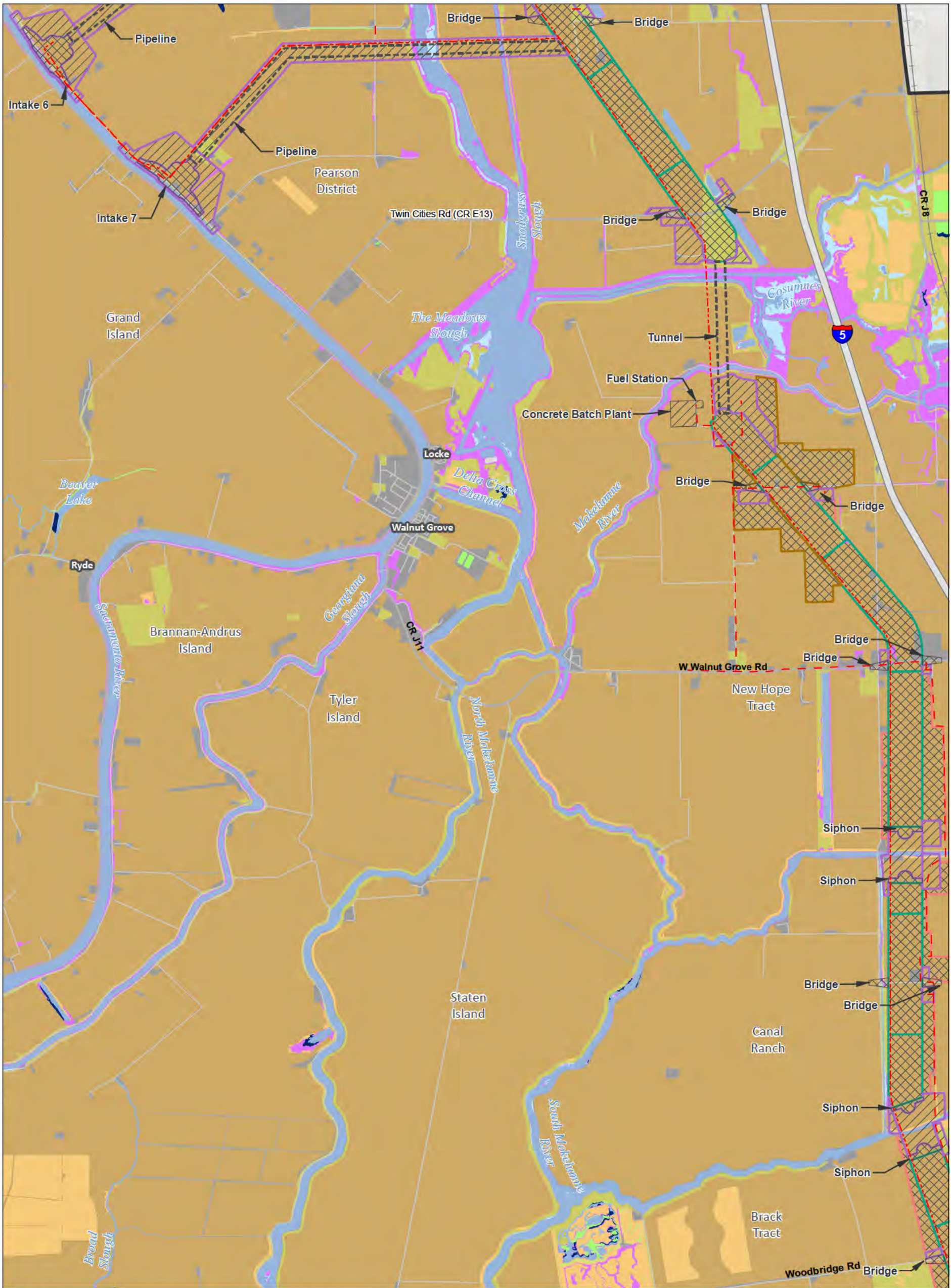


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

**Figure M12-2: Sheet 1 of 7
Distribution of Natural Communities — East Alignment**

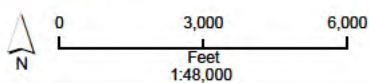


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Refer to mapbook index page for conveyance construction footprint symbology ☐ ☒

Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Natural Communities | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Cultivated Lands | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Alkali Seasonal Wetland Complex | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Grassland | Other Natural Seasonal Wetland | Vernal Pool Complex |
| Inland Dune Scrub | Tidal Brackish Emergent Wetland | Developed |

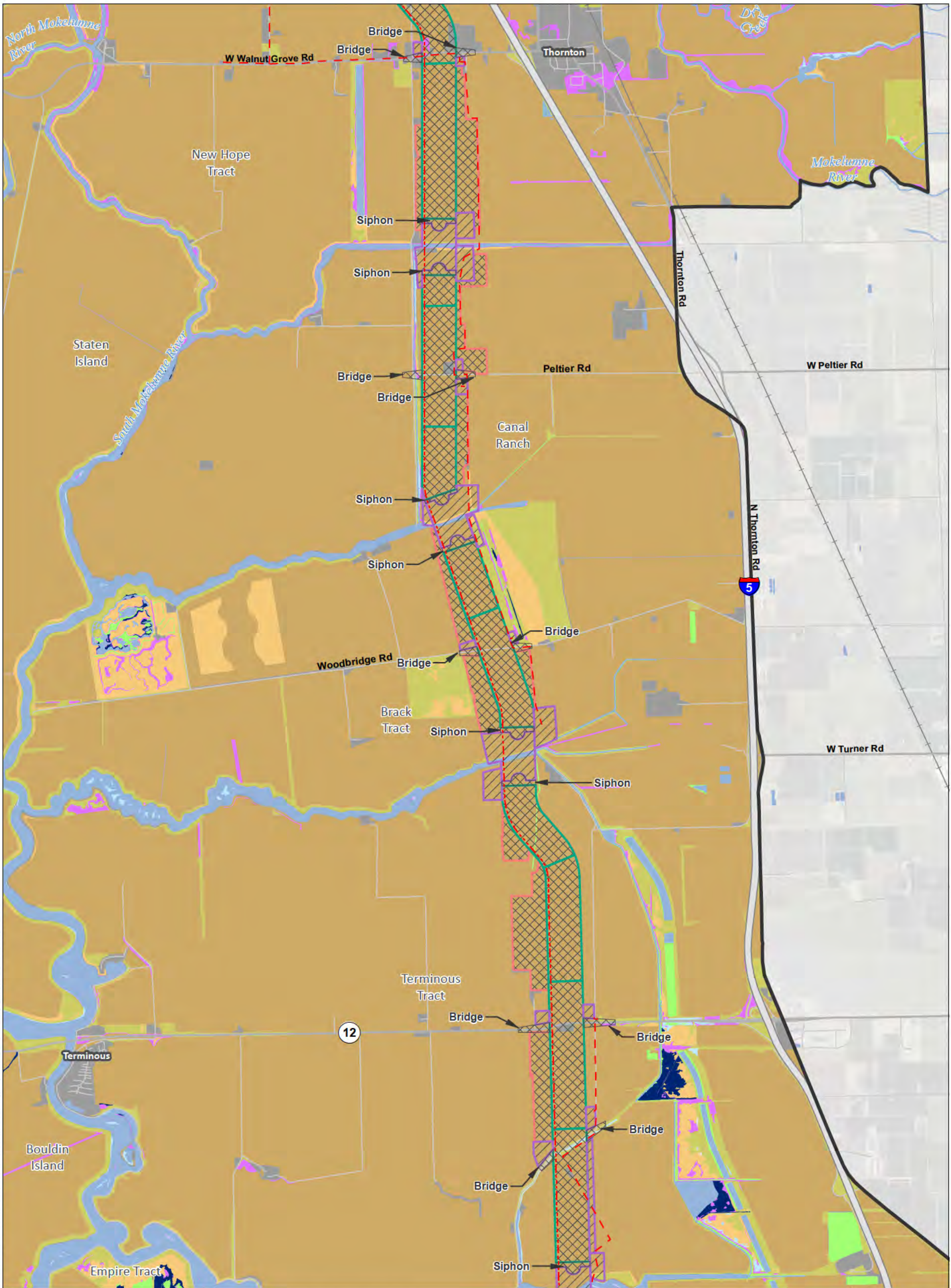


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

Figure M12-2: Sheet 2 of 7
Distribution of Natural Communities — East Alignment

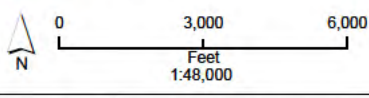


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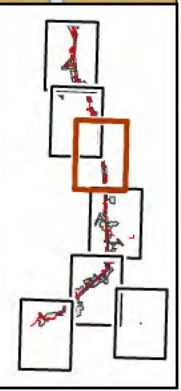
Refer to mapbook index page for conveyance construction footprint symbology ☒ ☒

Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Natural Communities | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Cultivated Lands | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Alkali Seasonal Wetland Complex | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Grassland | Other Natural Seasonal Wetland | Vernal Pool Complex |
| Inland Dune Scrub | Tidal Brackish Emergent Wetland | Developed |

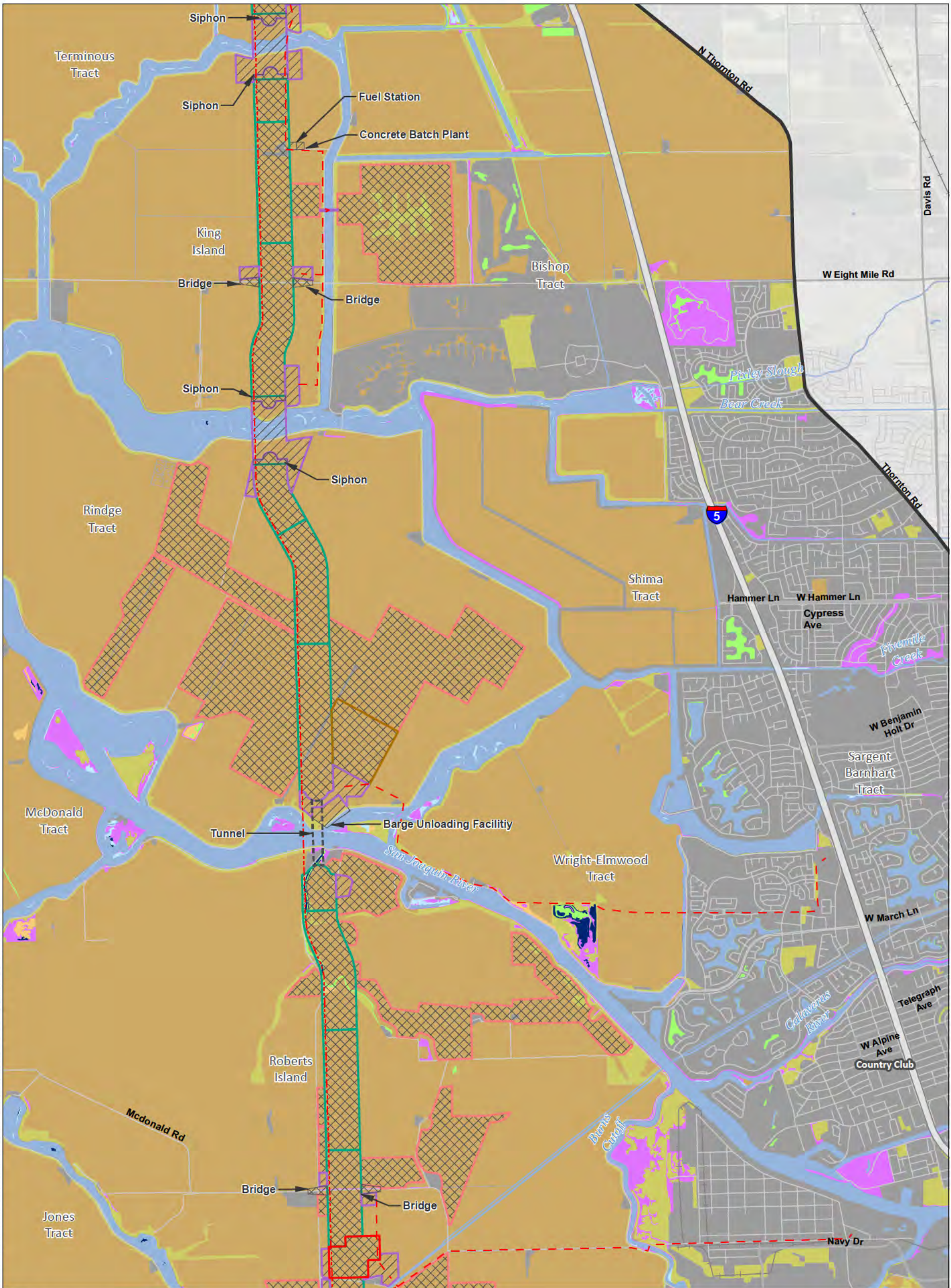


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

**Figure M12-2: Sheet 3 of 7
Distribution of Natural Communities — East Alignment**



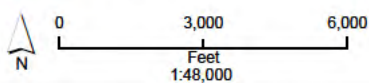
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Refer to mapbook index page for conveyance construction footprint symbology

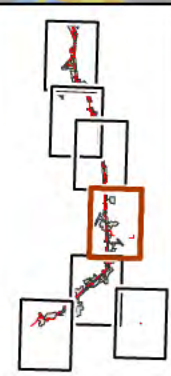
Legend

Natural Communities

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> Cultivated Lands Alkali Seasonal Wetland Complex Grassland Inland Dune Scrub | <ul style="list-style-type: none"> Managed Wetland Nontidal Freshwater Perennial Emergent Wetland Nontidal Perennial Aquatic Other Natural Seasonal Wetland Tidal Brackish Emergent Wetland | <ul style="list-style-type: none"> Tidal Freshwater Emergent Wetland Tidal Perennial Aquatic Valley/Foothill Riparian Vernal Pool Complex Developed |
|---|--|--|

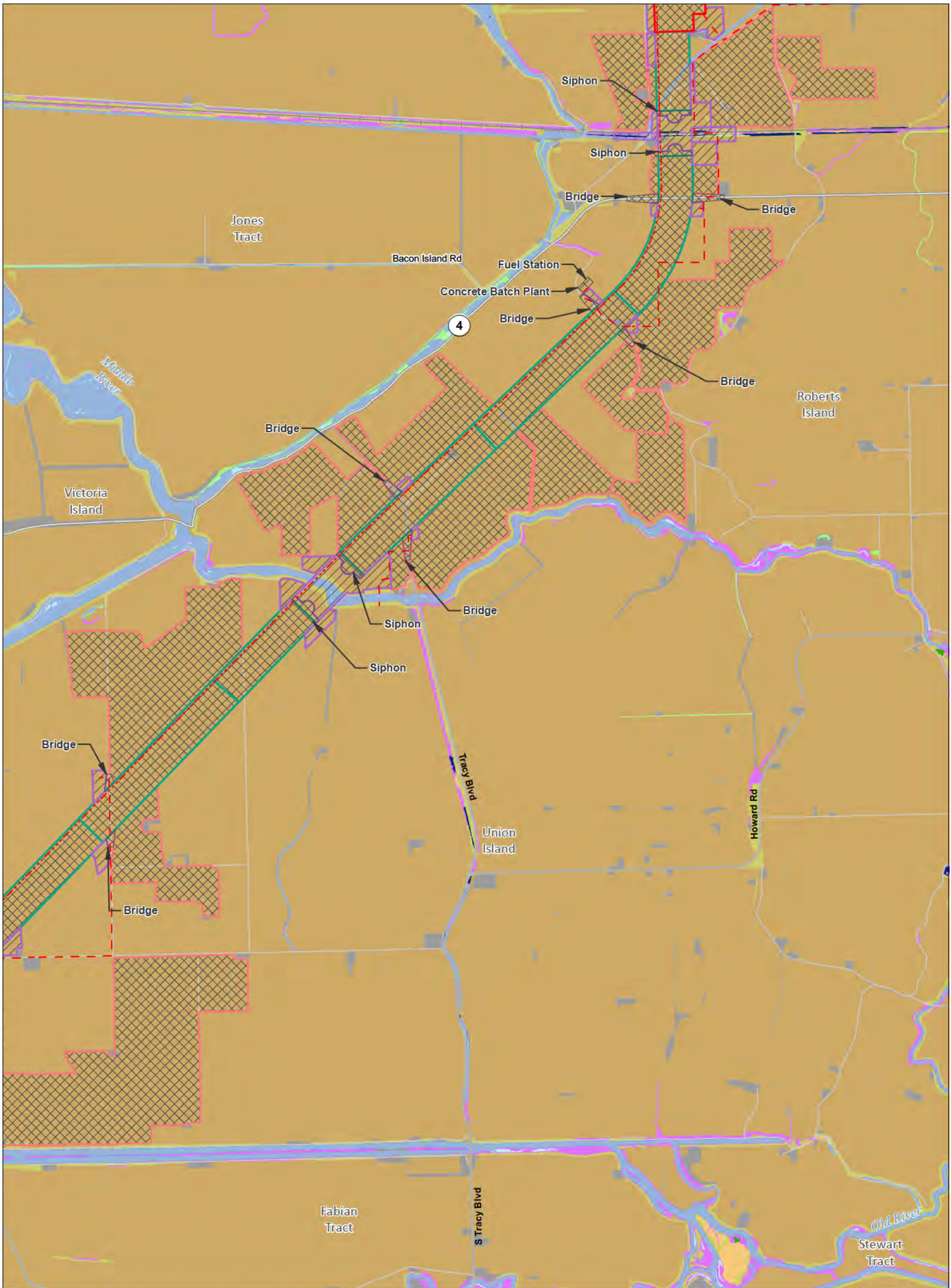


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

**Figure M12-2: Sheet 4 of 7
Distribution of Natural Communities — East Alignment**

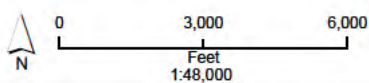


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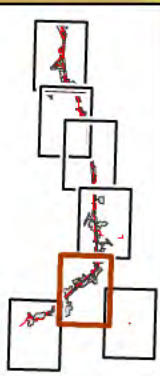
Refer to mapbook index page for conveyance construction footprint symbology ☐ ☒

Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Natural Communities | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Cultivated Lands | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Alkali Seasonal Wetland Complex | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Grassland | Other Natural Seasonal Wetland | Vernal Pool Complex |
| Inland Dune Scrub | Tidal Brackish Emergent Wetland | Developed |

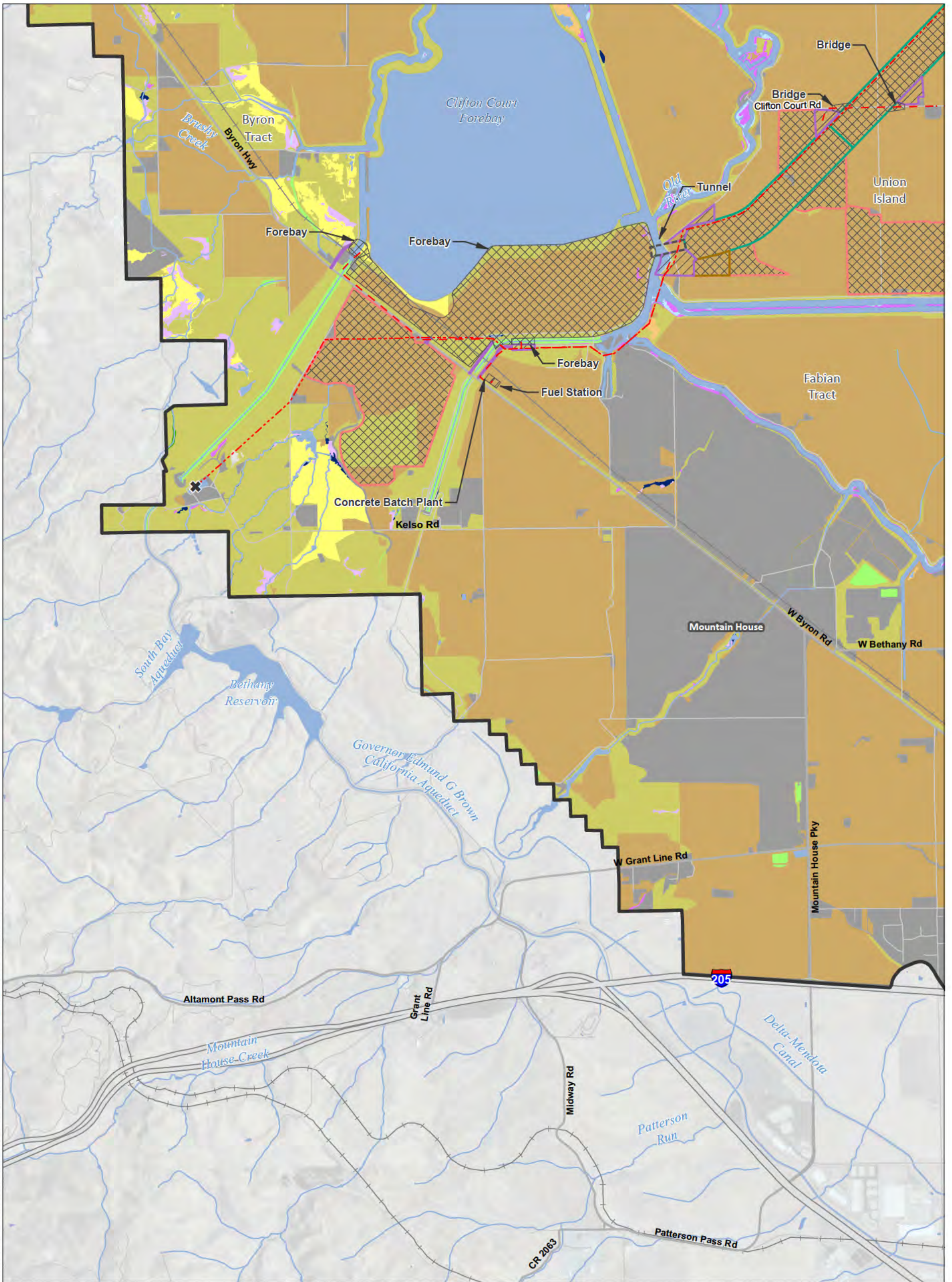


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

**Figure M12-2: Sheet 5 of 7
Distribution of Natural Communities — East Alignment**

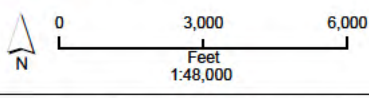


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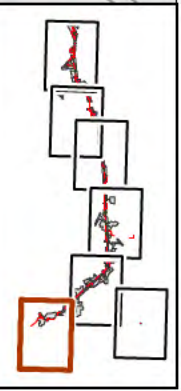
Refer to mapbook index page for conveyance construction footprint symbology ☐ ☒

Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Natural Communities | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Cultivated Lands | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Alkali Seasonal Wetland Complex | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Grassland | Other Natural Seasonal Wetland | Vernal Pool Complex |
| Inland Dune Scrub | Tidal Brackish Emergent Wetland | Developed |

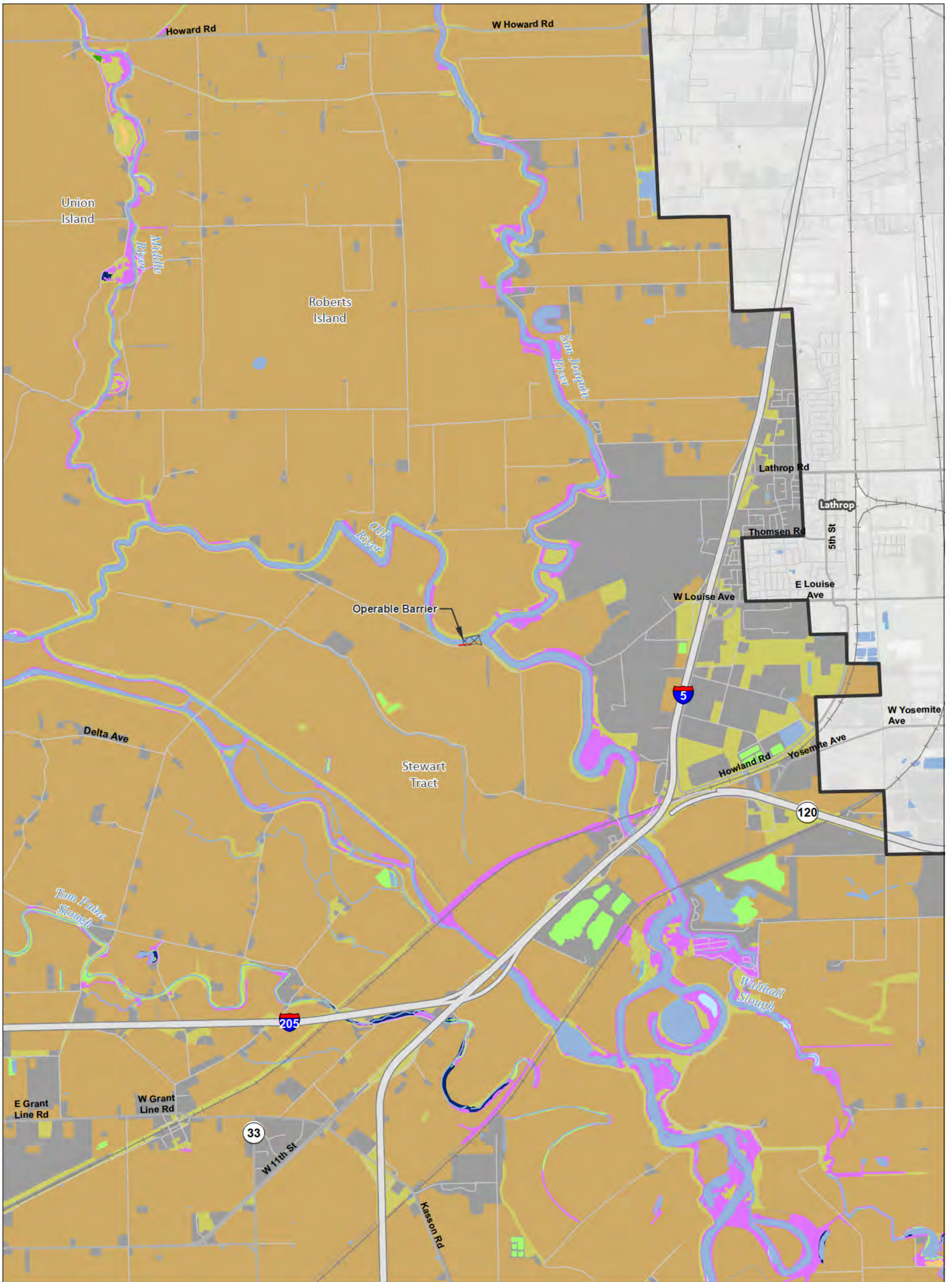


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

**Figure M12-2: Sheet 6 of 7
Distribution of Natural Communities — East Alignment**



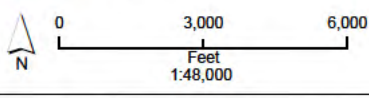
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Refer to mapbook index page for conveyance construction footprint symbology ☐ ☒

Legend

Natural Communities

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> Cultivated Lands Alkali Seasonal Wetland Complex Grassland Inland Dune Scrub | <ul style="list-style-type: none"> Managed Wetland Nontidal Freshwater Perennial Emergent Wetland Nontidal Perennial Aquatic Other Natural Seasonal Wetland Tidal Brackish Emergent Wetland | <ul style="list-style-type: none"> Tidal Freshwater Emergent Wetland Tidal Perennial Aquatic Valley/Foothill Riparian Vernal Pool Complex Developed |
|---|---|---|

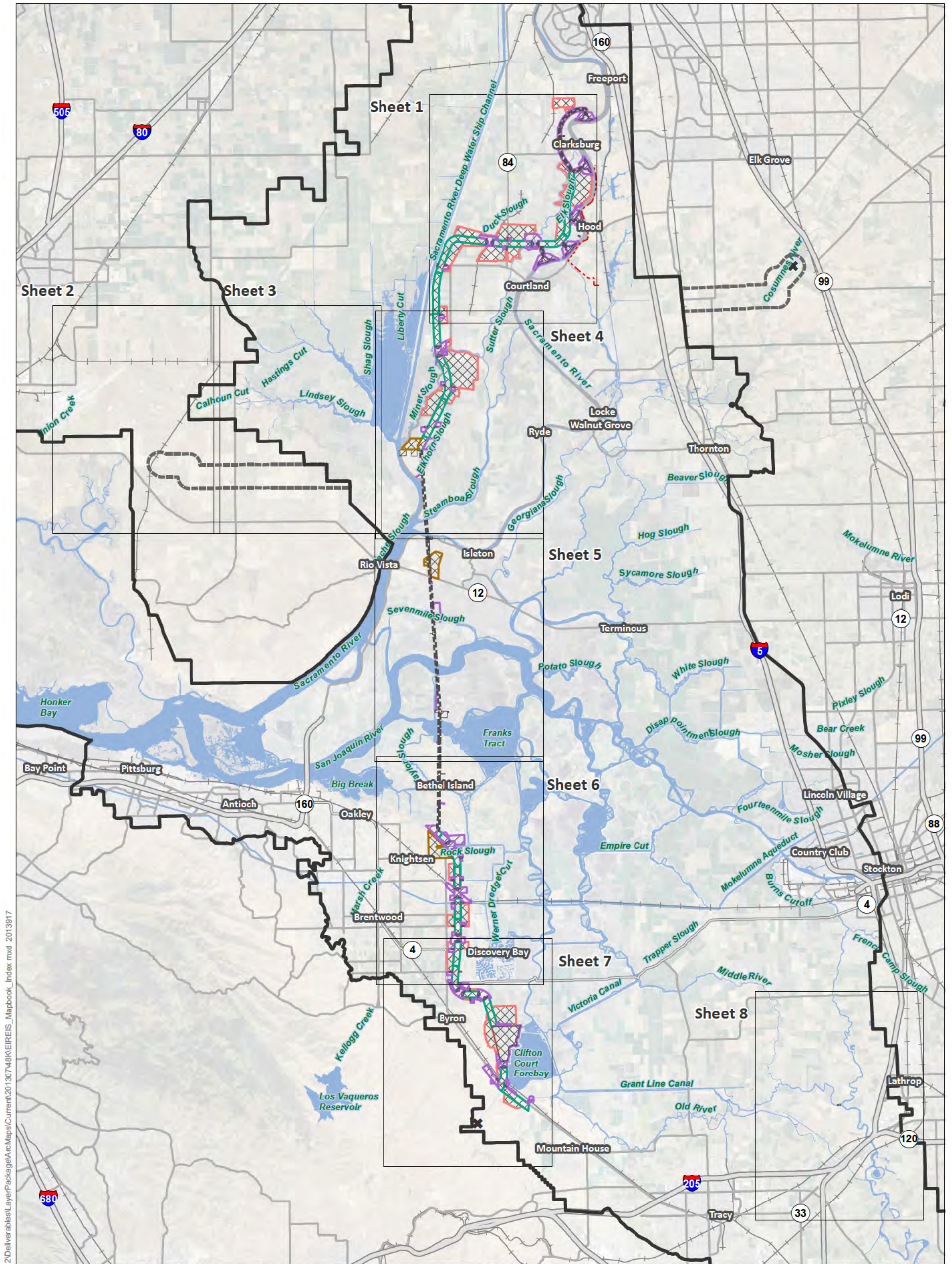


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

**Figure M12-2: Sheet 7 of 7
Distribution of Natural Communities — East Alignment**



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Legend

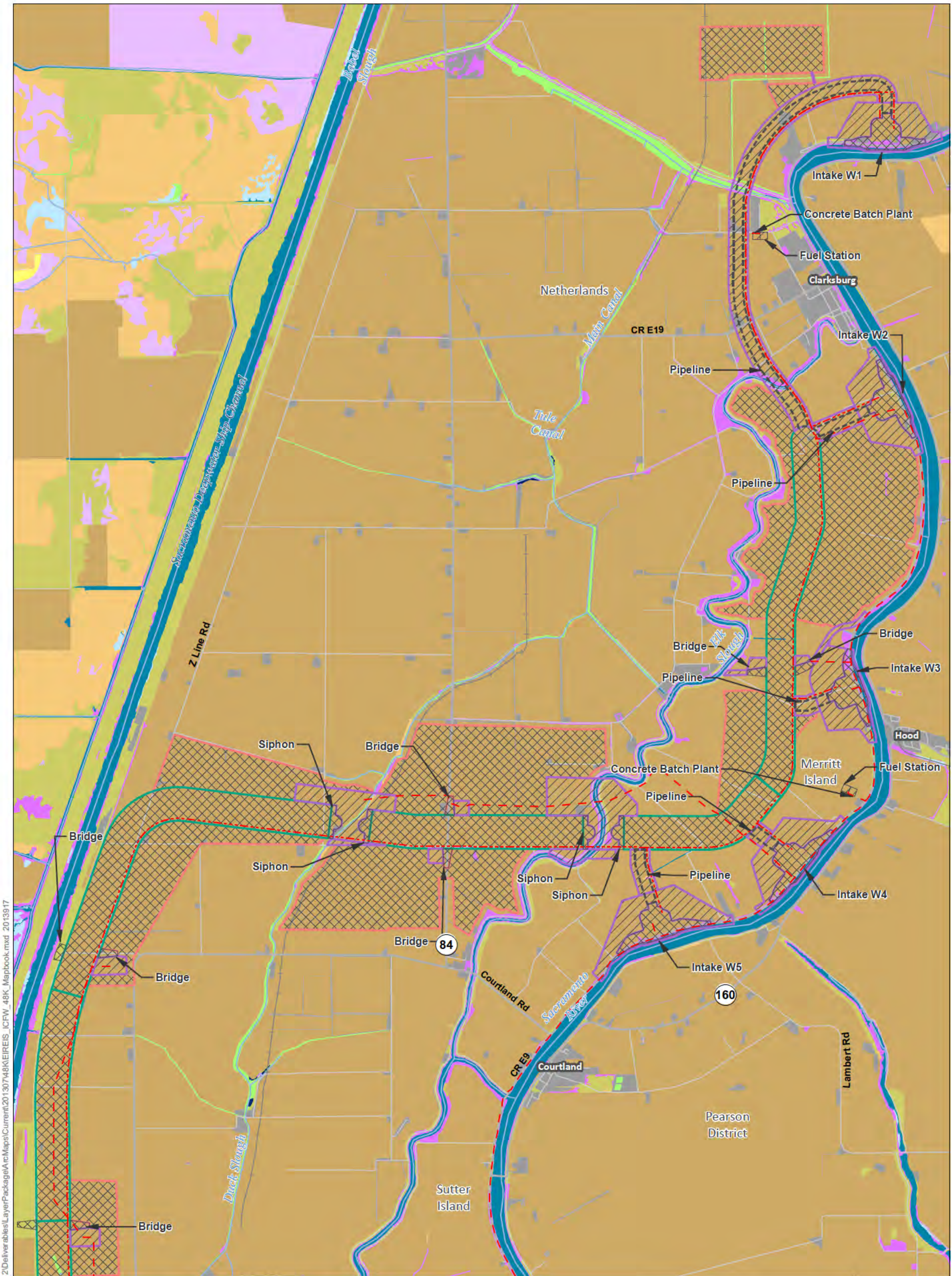
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|--|--|--|---|
| <ul style="list-style-type: none"> Interstate State Highway/Route Railroad Plan Area Areas of Additional Analysis (Outside of Legal Delta; for Power Only) Water | <p>Conveyance Construction Footprint</p> <ul style="list-style-type: none"> Permanent Subsurface Impact <p>Temporary Surface Impact</p> <ul style="list-style-type: none"> Work Area Other | <p>Permanent Surface Impact</p> <ul style="list-style-type: none"> Canal Borrow and/or Spoil Reusable Tunnel Material Other | <p>Proposed Power</p> <ul style="list-style-type: none"> Interconnection Point Permanent OH Transmission Line Temporary OH Transmission Line |
|--|--|--|---|

*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Figure M12-3: Index Distribution of Natural Communities — West Alignment

Sources: DWR DHCCP Construction Footprint (rev 10b), ICF 2012; NA P 2012

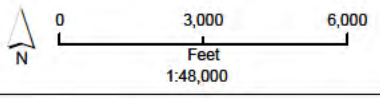


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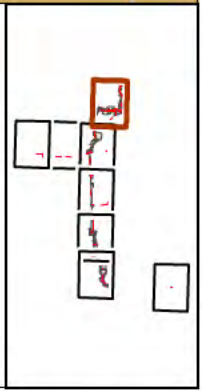
Refer to mapbook index page for conveyance construction footprint symbology

Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |

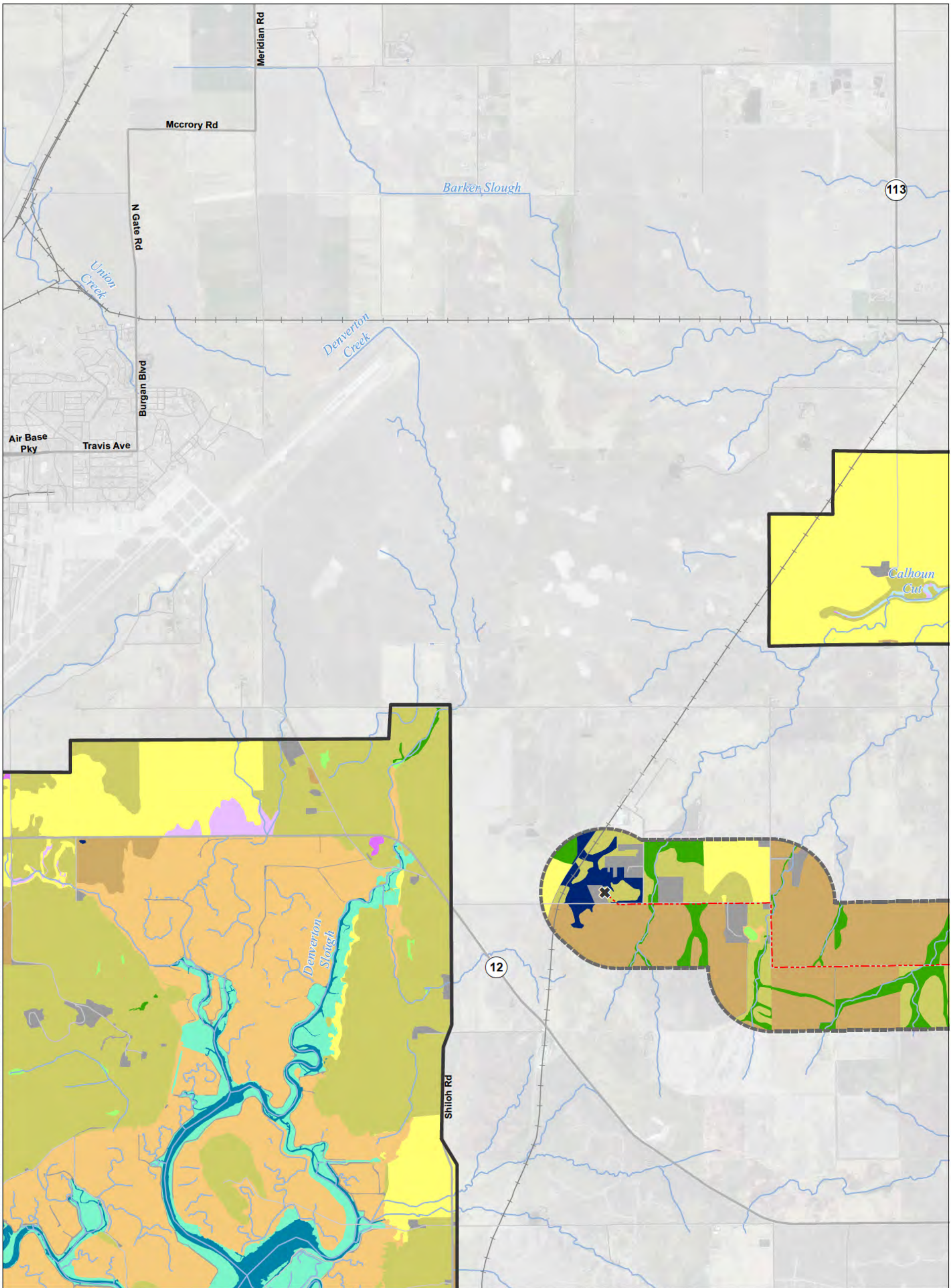


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

**Figure M12-3: Sheet 1 of 8
Distribution of Natural Communities — West Alignment**

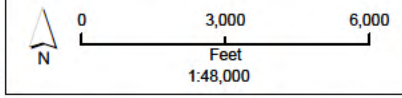


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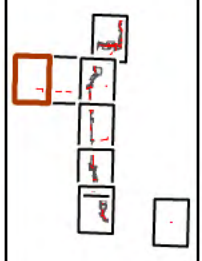
Refer to mapbook index page for conveyance construction footprint symbology

Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |

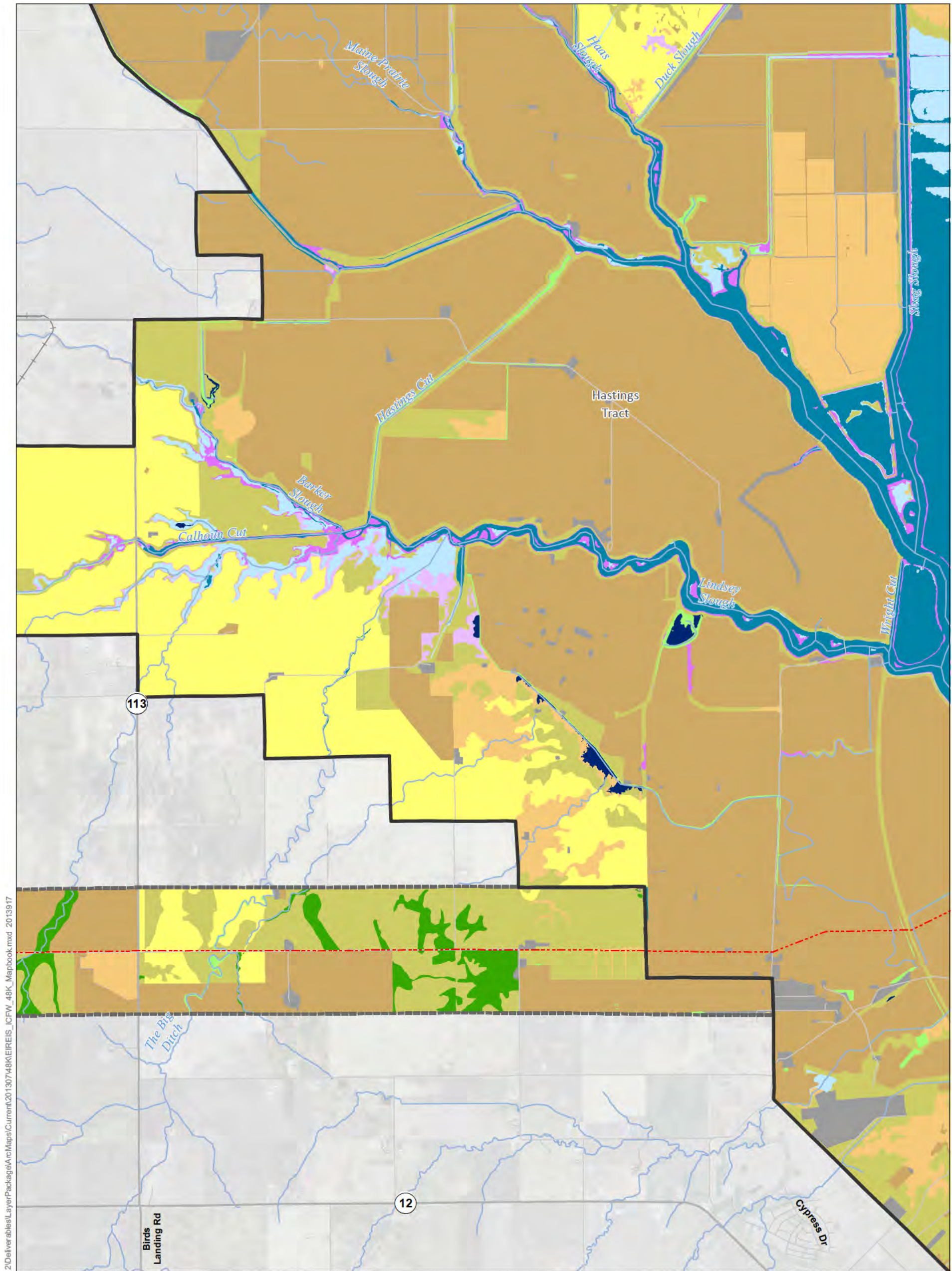


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

**Figure M12-3: Sheet 2 of 8
Distribution of Natural Communities — West Alignment**

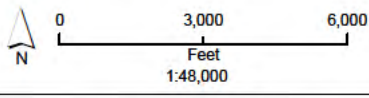


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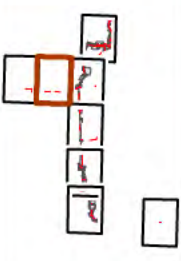
Refer to mapbook index page for conveyance construction footprint symbology

Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |

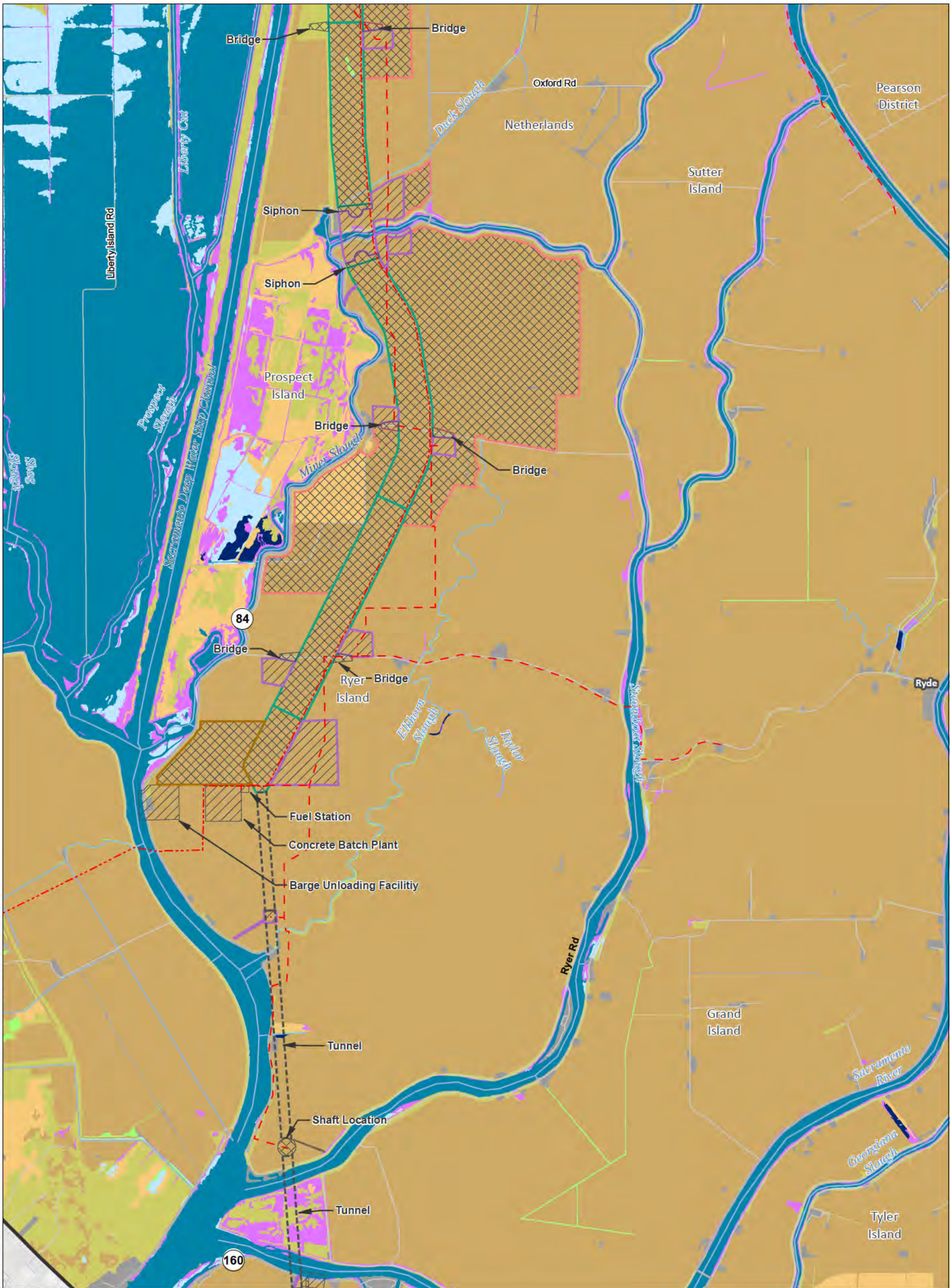


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

**Figure M12-3: Sheet 3 of 8
Distribution of Natural Communities — West Alignment**



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Refer to mapbook index page for conveyance construction footprint symbology

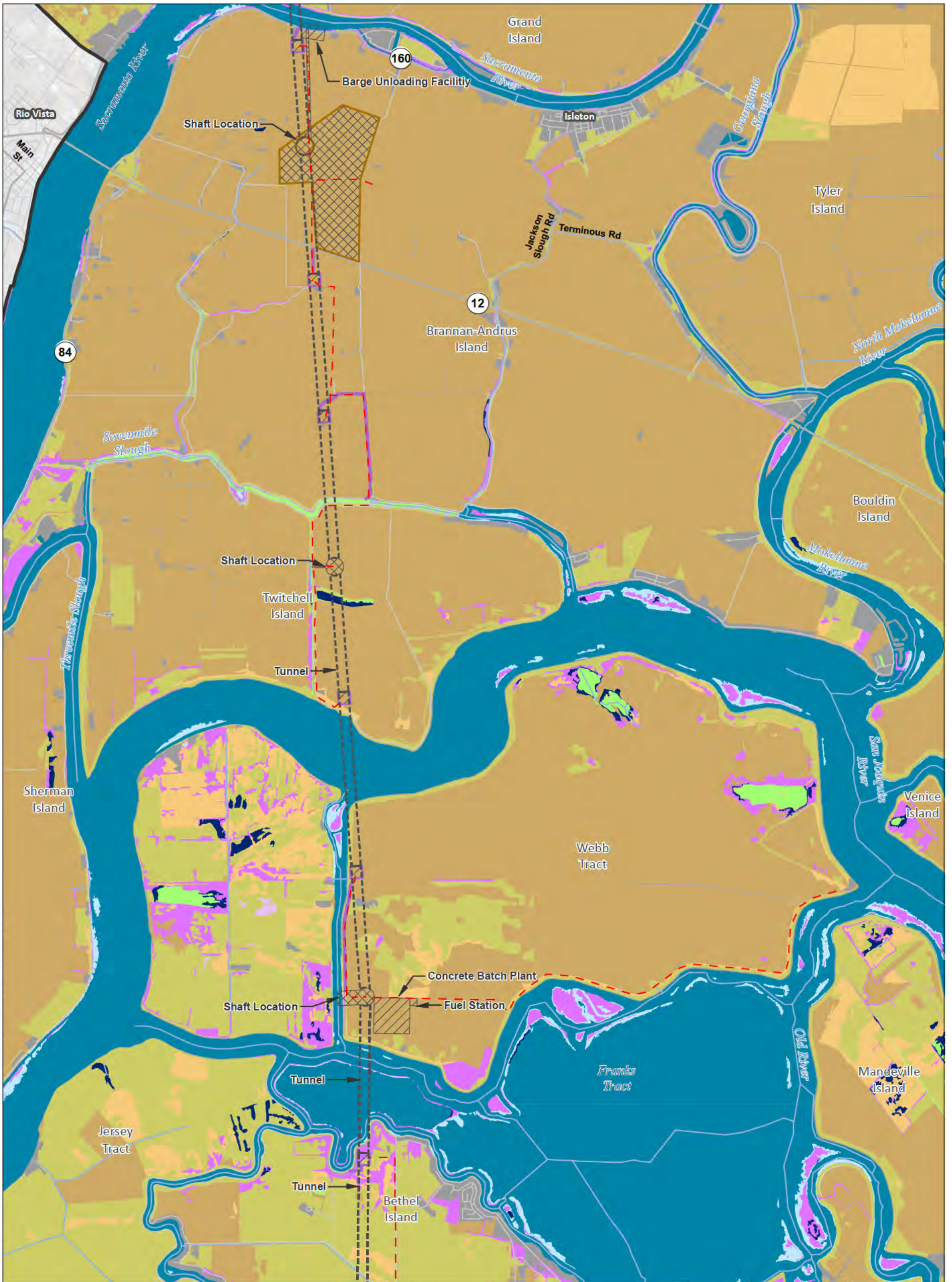
Legend		
Natural Communities		
Cultivated Lands	Managed Wetland	Tidal Freshwater Emergent Wetland
Alkali Seasonal Wetland Complex	Nontidal Freshwater Perennial Emergent Wetland	Tidal Perennial Aquatic
Grassland	Nontidal Perennial Aquatic	Valley/Foothill Riparian
Inland Dune Scrub	Other Natural Seasonal Wetland	Vernal Pool Complex
	Tidal Brackish Emergent Wetland	Developed

*Surface impacts are not expected to result from subsurface features.

**In-river features are not a permanent impact to navigation.

Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

Figure M12-3: Sheet 4 of 8
Distribution of Natural Communities — West Alignment



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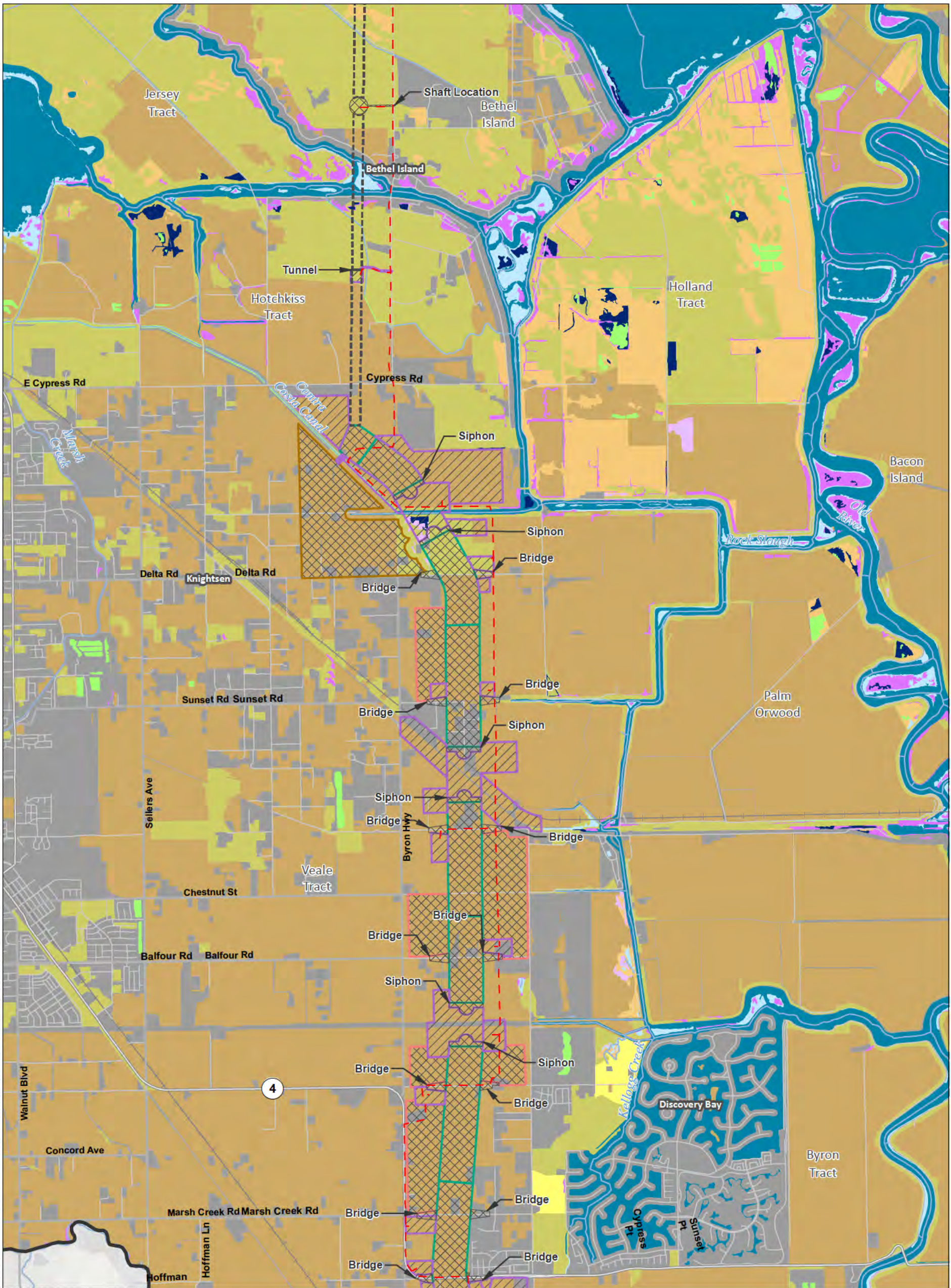
Refer to mapbook index page for conveyance construction footprint symbology

Legend		
Natural Communities		
Cultivated Lands	Managed Wetland	Tidal Freshwater Emergent Wetland
Alkali Seasonal Wetland Complex	Nontidal Freshwater Perennial Emergent Wetland	Tidal Perennial Aquatic
Grassland	Nontidal Perennial Aquatic	Valley/Foothill Riparian
Inland Dune Scrub	Other Natural Seasonal Wetland	Vernal Pool Complex
	Tidal Brackish Emergent Wetland	Developed

*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.

Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

Figure M12-3: Sheet 5 of 8
Distribution of Natural Communities — West Alignment

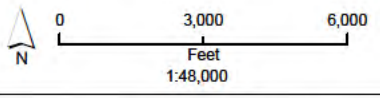


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Refer to mapbook index page for conveyance construction footprint symbology

Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |

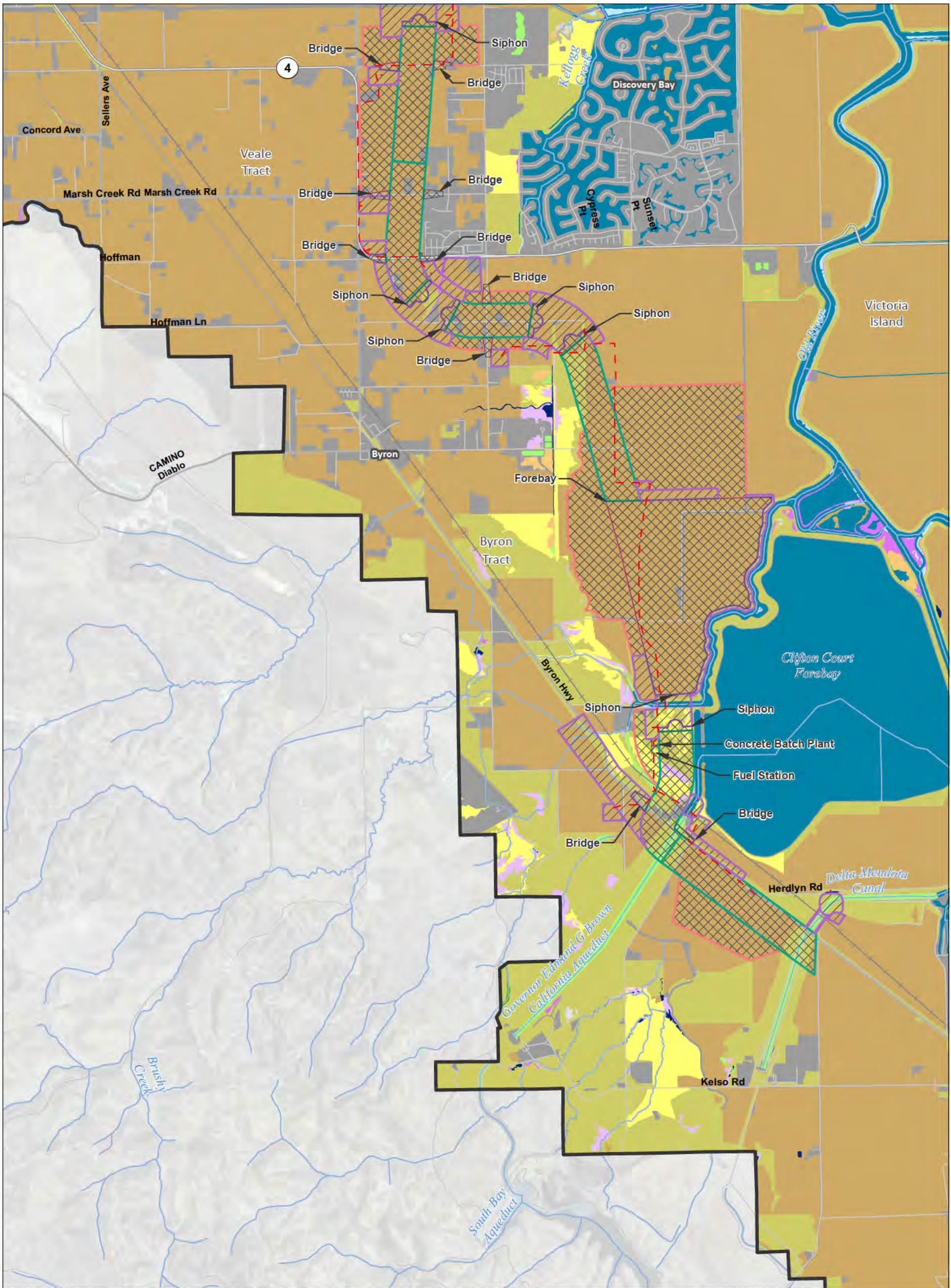


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

**Figure M12-3: Sheet 6 of 8
Distribution of Natural Communities — West Alignment**

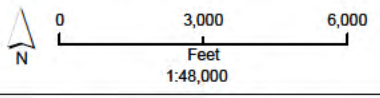


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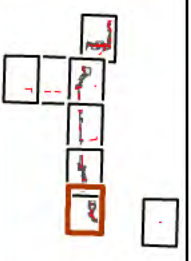
Refer to mapbook index page for conveyance construction footprint symbology

Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Natural Communities | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Cultivated Lands | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Alkali Seasonal Wetland Complex | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Grassland | Other Natural Seasonal Wetland | Vernal Pool Complex |
| Inland Dune Scrub | Tidal Brackish Emergent Wetland | Developed |

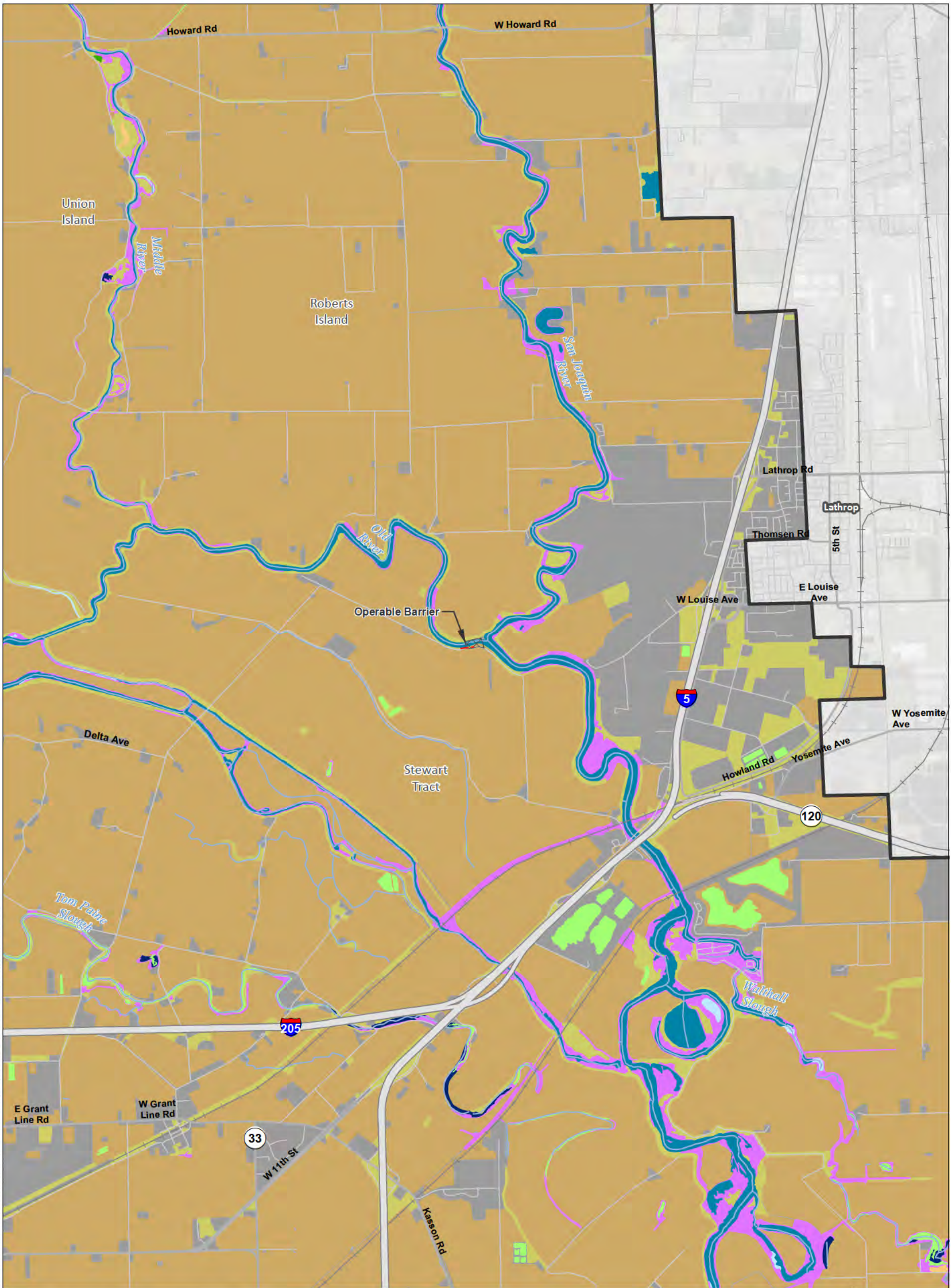


*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.



Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

Figure M12-3: Sheet 7 of 8
Distribution of Natural Communities — West Alignment



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Refer to mapbook index page for conveyance construction footprint symbology

Legend

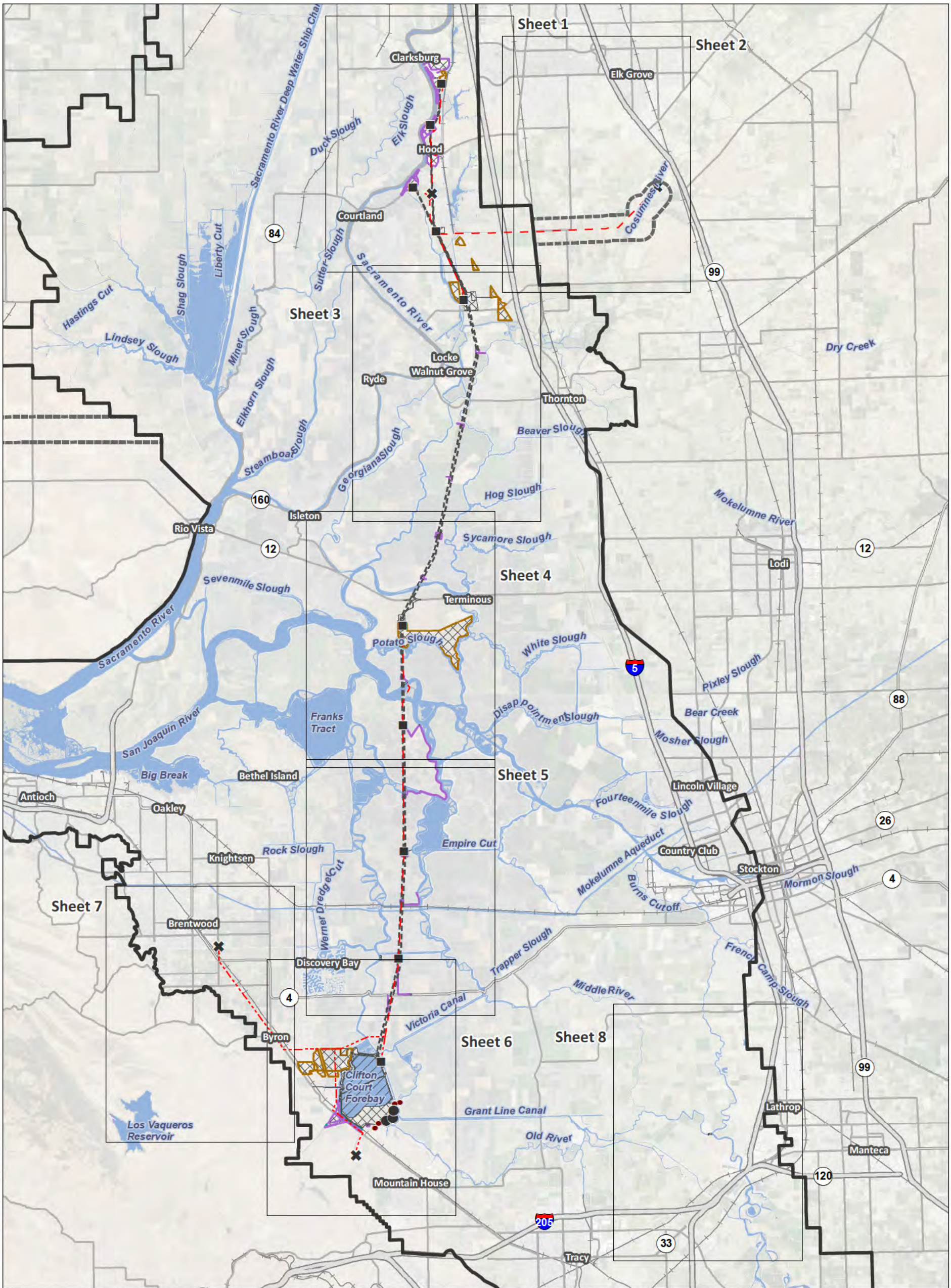
Cultivated Lands	Managed Wetland	Tidal Freshwater Emergent Wetland
Alkali Seasonal Wetland Complex	Nontidal Freshwater Perennial Emergent Wetland	Tidal Perennial Aquatic
Grassland	Nontidal Perennial Aquatic	Valley/Foothill Riparian
Inland Dune Scrub	Other Natural Seasonal Wetland	Vernal Pool Complex
	Tidal Brackish Emergent Wetland	Developed

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1:48,000

*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.

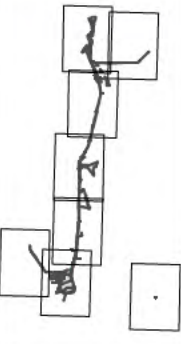
Sources: Plan Area, ICF 2012; DWR DHCCP Construction Footprint (rev 10b); Natural Communities, ICF 2011

Figure M12-3: Sheet 8 of 8
Distribution of Natural Communities — West Alignment



Legend

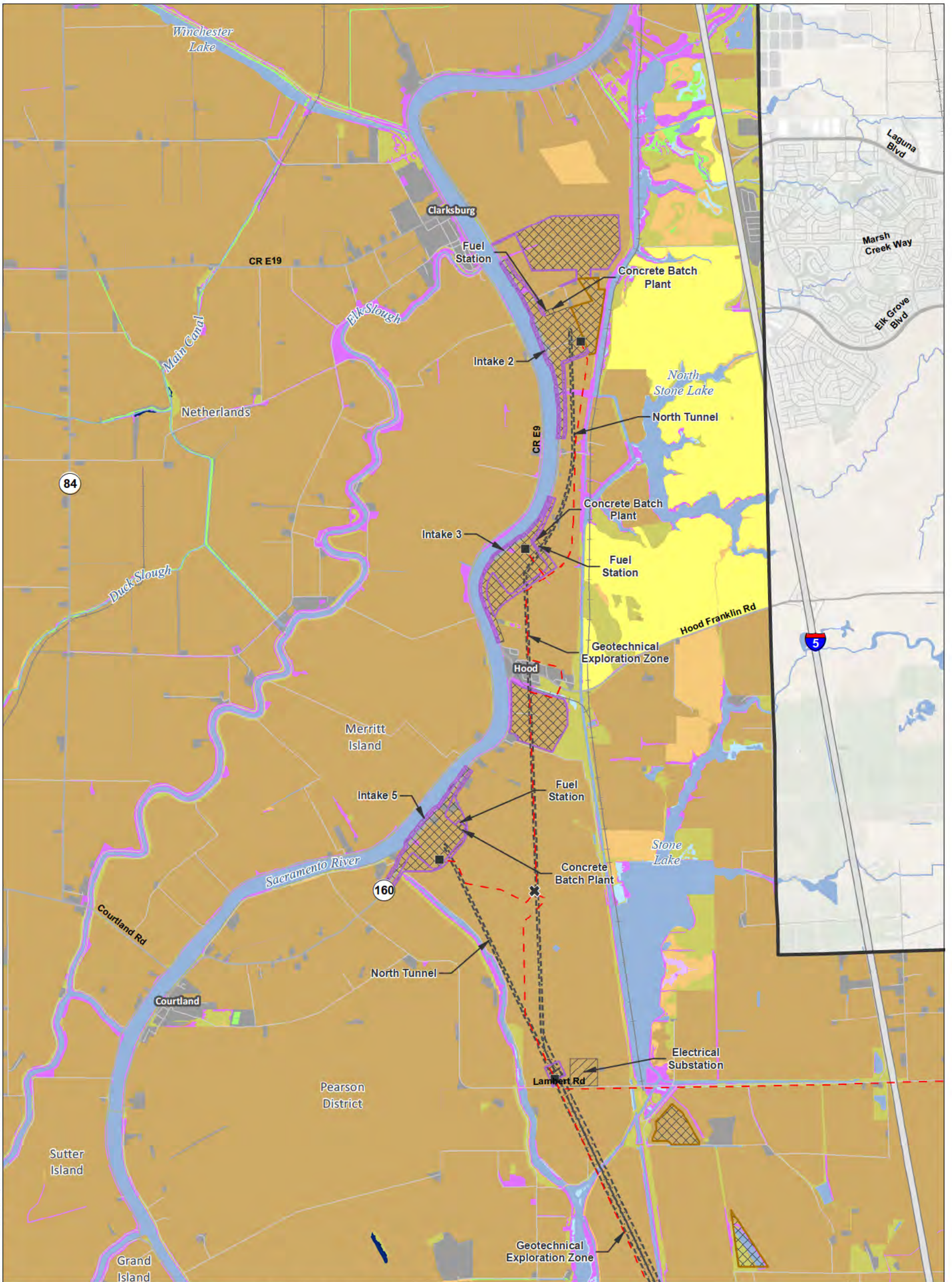
- | | | | |
|--|--|--|---|
| <ul style="list-style-type: none"> Interstate State Highway/Route Railroad Plan Area Areas of Additional Analysis (Outside of Legal Delta; for Power Only) Water | <ul style="list-style-type: none"> Conveyance Construction Footprint Permanent Subsurface Impact Temporary Surface Impact Geotechnical Exploration Zone Work Area Other Permanent Surface Impact Canal Reusable Tunnel Material Area Other <p><small>*Surface impacts are not expected to result from subsurface features.</small></p> | <ul style="list-style-type: none"> Proposed Power Substation Proposed Tower Relocation Interconnection Point Existing Power Existing Tower <p><small>**In-river features are not a permanent impact to navigation.</small></p> | <ul style="list-style-type: none"> Proposed Power Permanent OH Transmission Line Temporary OH Transmission Line Existing Power Existing Permanent OH Transmission Line <p><small>***Surface impacts will only occur at sites selected for geotechnical explorations. See Ch. 3, Section 3.6.1.10 for more information</small></p> |
|--|--|--|---|



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Sources: DWR DHCCP MPTO Construction Footprint (rev 5a), ICF 2012; NA P 2012

Figure M12-4: Index Distribution of Natural Communities — Modified Pipeline/Tunnel Alignment (Alternative 4)

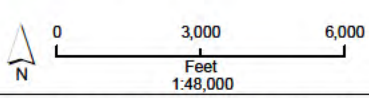


Refer to mapbook index page for conveyance construction footprint symbology

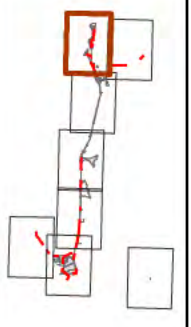
Legend

Natural Communities

- | | | |
|-----------------------------------|--|--------------------------------|
| Tidal Perennial Aquatic | Nontidal Perennial Aquatic | Other Natural Seasonal Wetland |
| Tidal Brackish Emergent Wetland | Nontidal Freshwater Perennial Emergent Wetland | Grassland |
| Tidal Freshwater Emergent Wetland | Alkali Seasonal Wetland Complex | Inland Dune Scrub |
| Valley/Foothill Riparian | Vernal Pool Complex | Cultivated Land |
| | Managed Wetland | Developed |



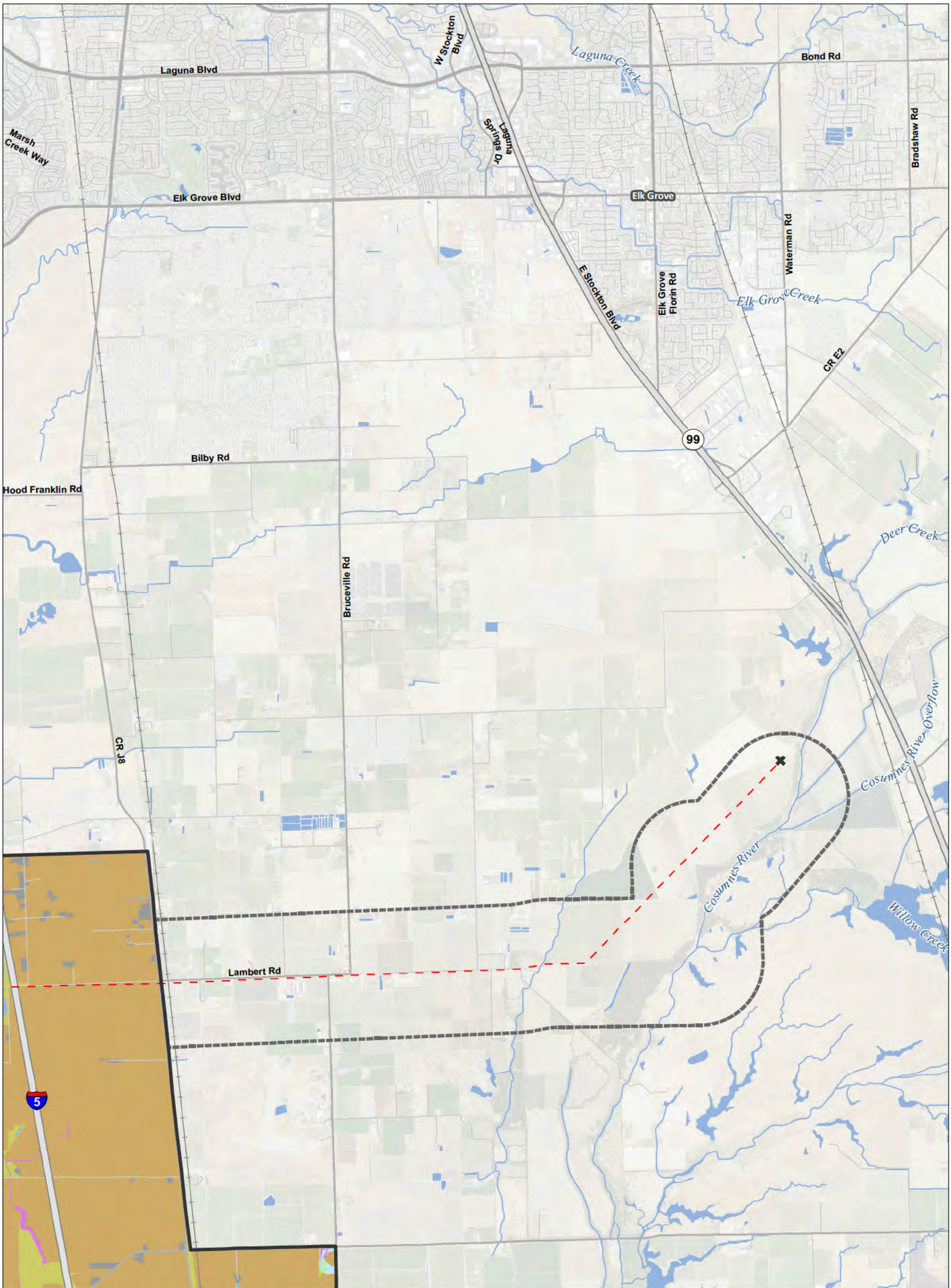
*Surface impacts are not expected to result from subsurface features.
 **In-river features are not a permanent impact to navigation.
 ***Surface impacts will only occur at sites selected for geotechnical explorations.
 See Ch. 3, Section 3.6.1.10 for more information



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Sources: Plan Area, ICF 2012; DWR DCE MPTO Construction Footprint (rev 5a); Natural Communities, ICF 2011

**Figure M12-4: Sheet 1 of 8
 Distribution of Natural Communities — Modified Pipeline/Tunnel Alignment (Alternative 4)**

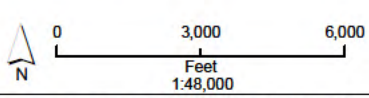


Refer to mapbook index page for conveyance construction footprint symbology

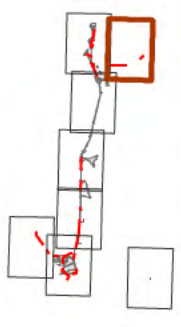
Legend

Natural Communities

- | | | |
|-----------------------------------|--|--------------------------------|
| Tidal Perennial Aquatic | Nontidal Perennial Aquatic | Other Natural Seasonal Wetland |
| Tidal Brackish Emergent Wetland | Nontidal Freshwater Perennial Emergent Wetland | Grassland |
| Tidal Freshwater Emergent Wetland | Alkali Seasonal Wetland Complex | Inland Dune Scrub |
| Valley/Foothill Riparian | Vernal Pool Complex | Cultivated Land |
| | Managed Wetland | Developed |



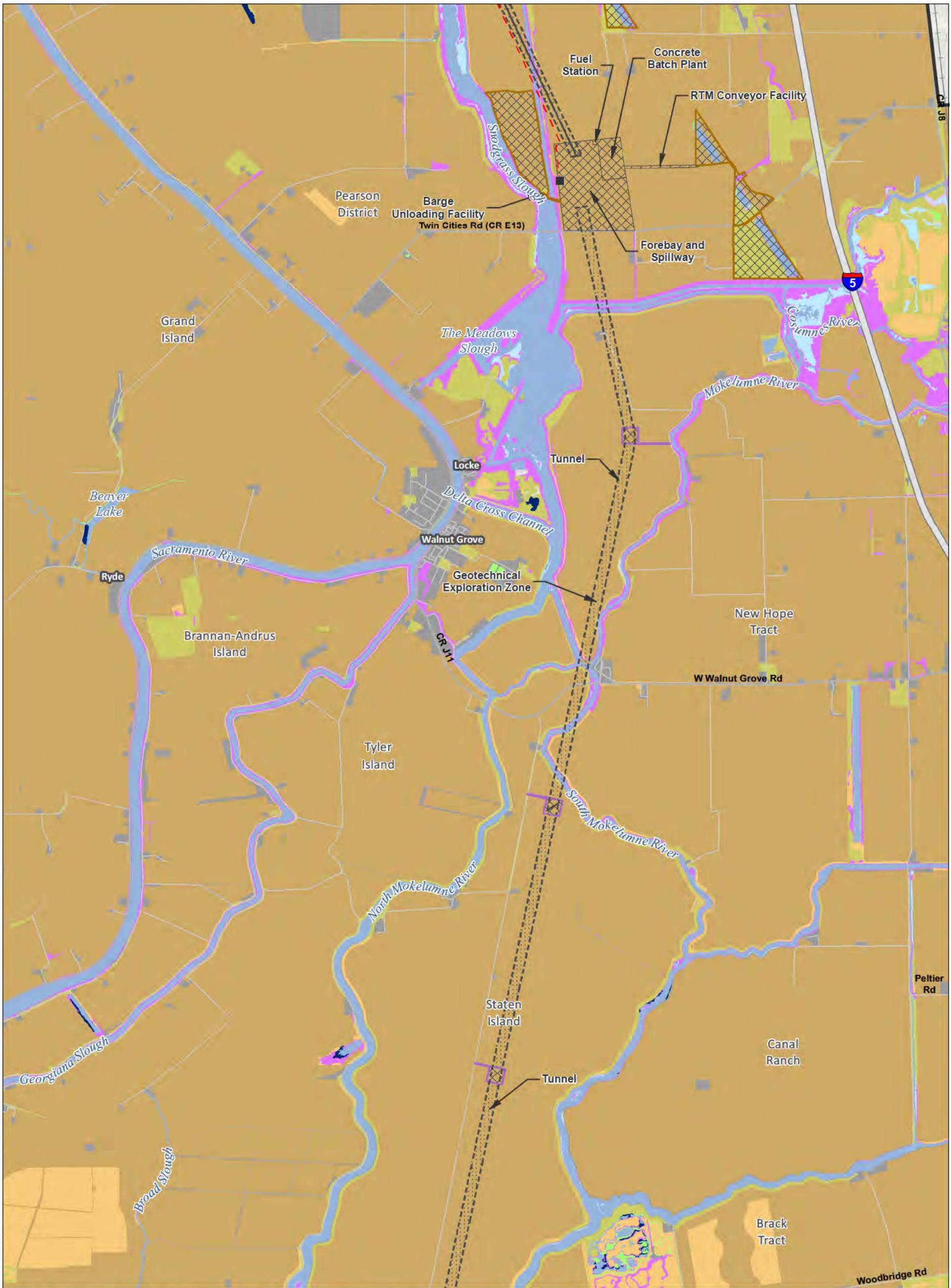
*Surface impacts are not expected to result from subsurface features.
 **In-river features are not a permanent impact to navigation.
 ***Surface impacts will only occur at sites selected for geotechnical explorations.
 See Ch. 3, Section 3.6.1.10 for more information



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Sources: Plan Area, ICF 2012; DWR DCE MPTO Construction Footprint (rev 5a); Natural Communities, ICF 2011

Figure M12-4: Sheet 2 of 8
Distribution of Natural Communities — Modified Pipeline/Tunnel Alignment (Alternative 4)

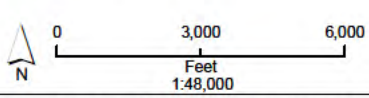


Refer to mapbook index page for conveyance construction footprint symbology

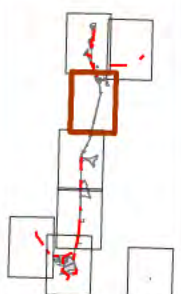
Legend

Natural Communities

- | | | |
|-----------------------------------|--|--------------------------------|
| Tidal Perennial Aquatic | Nontidal Perennial Aquatic | Other Natural Seasonal Wetland |
| Tidal Brackish Emergent Wetland | Nontidal Freshwater Perennial Emergent Wetland | Grassland |
| Tidal Freshwater Emergent Wetland | Alkali Seasonal Wetland Complex | Inland Dune Scrub |
| Valley/Foothill Riparian | Vernal Pool Complex | Cultivated Land |
| | Managed Wetland | Developed |



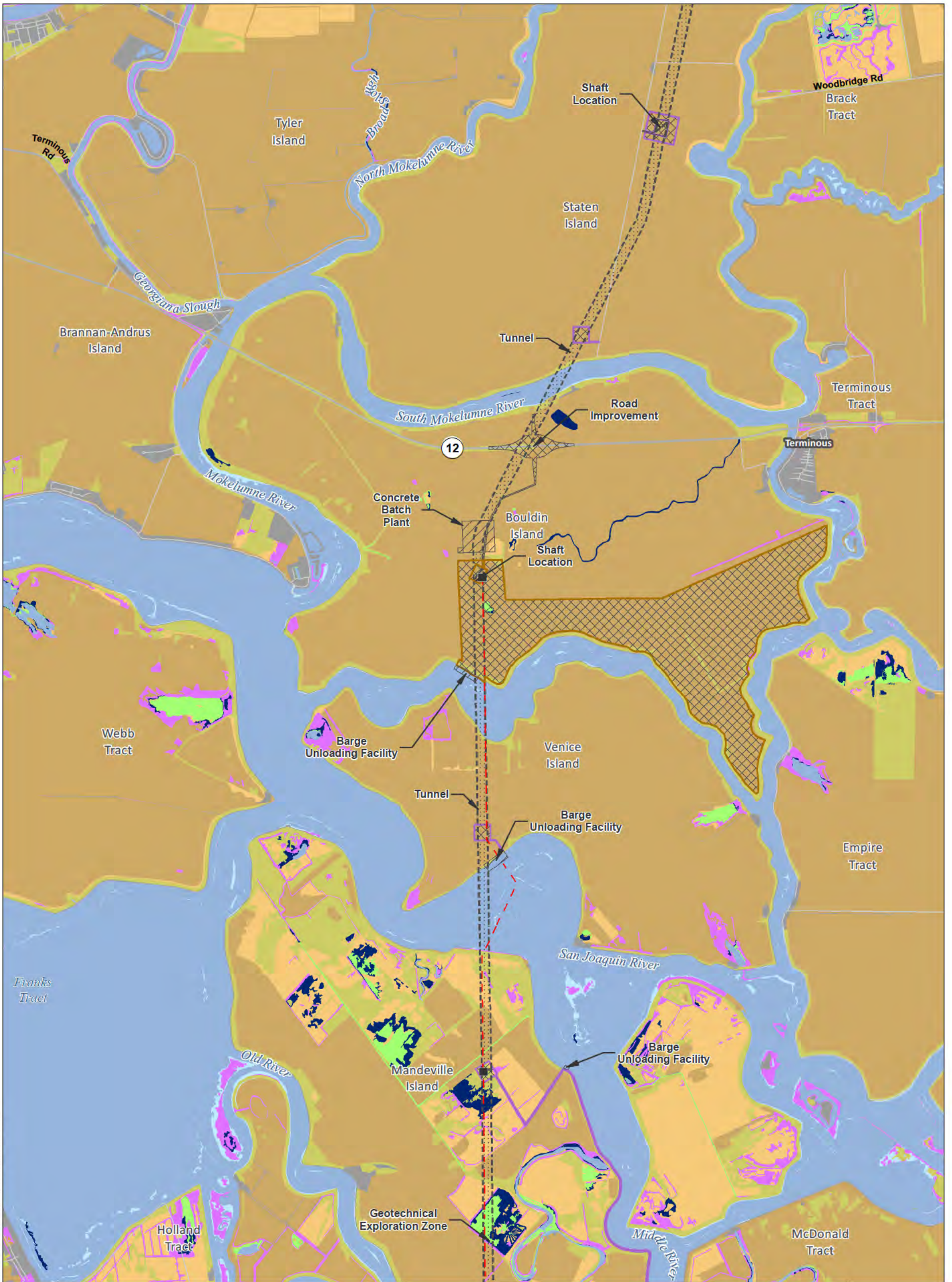
*Surface impacts are not expected to result from subsurface features.
 **In-river features are not a permanent impact to navigation.
 ***Surface impacts will only occur at sites selected for geotechnical explorations.
 See Ch. 3, Section 3.6.1.10 for more information



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Sources: Plan Area, ICF 2012; DWR DCE MPTO Construction Footprint (rev 5a); Natural Communities, ICF 2011

Figure M12-4: Sheet 3 of 8
Distribution of Natural Communities — Modified Pipeline/Tunnel Alignment (Alternative 4)

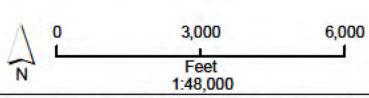


Refer to mapbook index page for conveyance construction footprint symbology

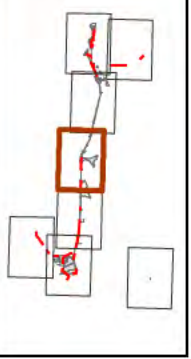
Legend

Natural Communities

- | | | |
|-----------------------------------|--|--------------------------------|
| Tidal Perennial Aquatic | Nontidal Perennial Aquatic | Other Natural Seasonal Wetland |
| Tidal Brackish Emergent Wetland | Nontidal Freshwater Perennial Emergent Wetland | Grassland |
| Tidal Freshwater Emergent Wetland | Alkali Seasonal Wetland Complex | Inland Dune Scrub |
| Valley/Foothill Riparian | Vernal Pool Complex | Cultivated Land |
| | Managed Wetland | Developed |



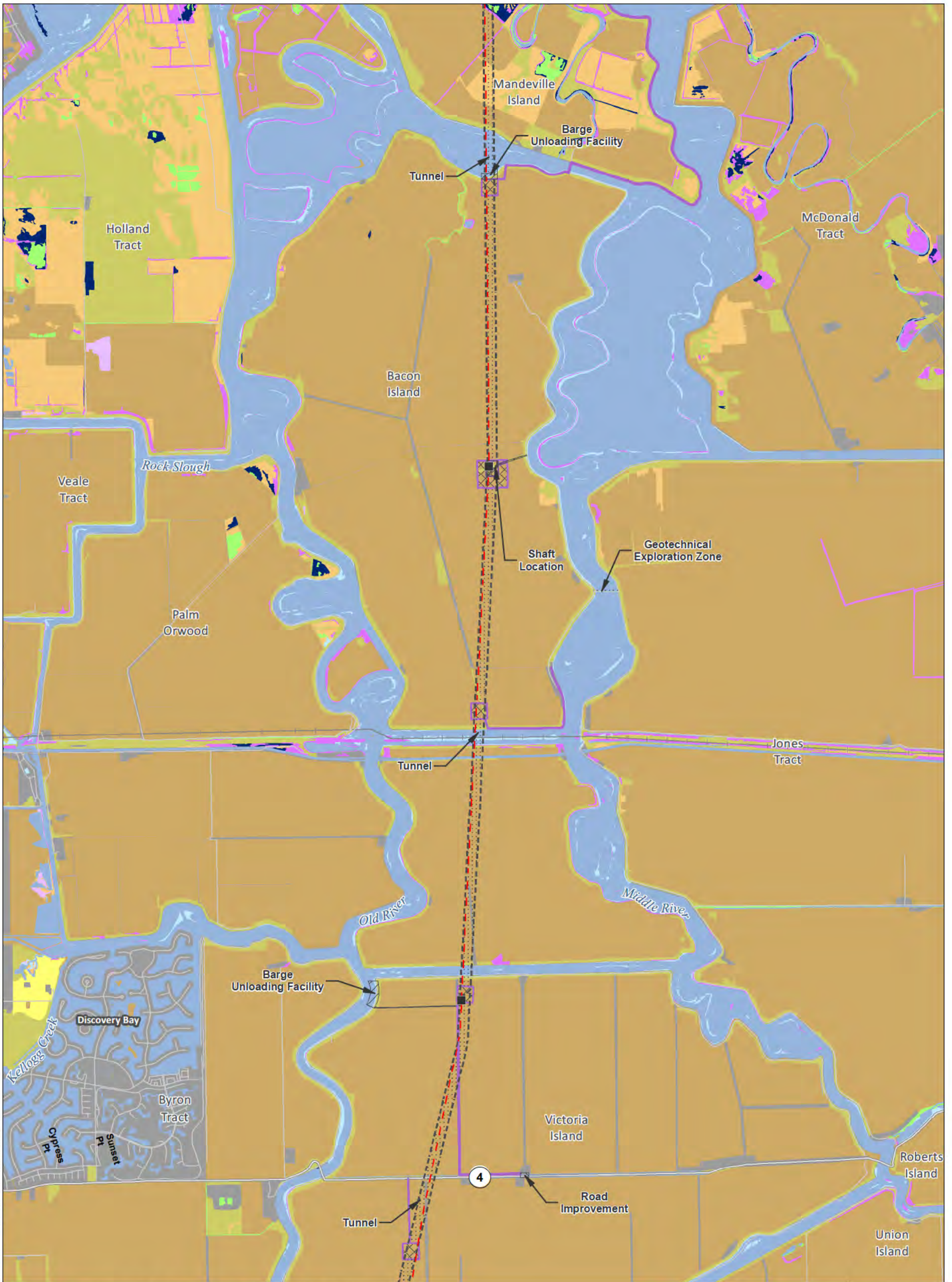
*Surface impacts are not expected to result from subsurface features.
 **In-river features are not a permanent impact to navigation.
 ***Surface impacts will only occur at sites selected for geotechnical explorations.
 See Ch. 3, Section 3.6.1.10 for more information



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Sources: Plan Area, ICF 2012; DWR DCE MPTO Construction Footprint (rev 5a); Natural Communities, ICF 2011

Figure M12-4: Sheet 4 of 8
Distribution of Natural Communities — Modified Pipeline/Tunnel Alignment (Alternative 4)



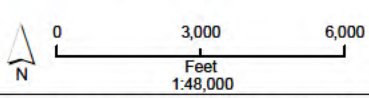
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Refer to mapbook index page for conveyance construction footprint symbology

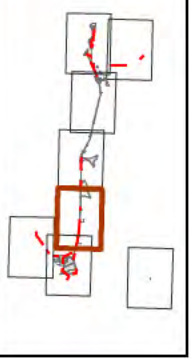
Legend

Natural Communities

- | | | |
|-----------------------------------|--|--------------------------------|
| Tidal Perennial Aquatic | Nontidal Perennial Aquatic | Other Natural Seasonal Wetland |
| Tidal Brackish Emergent Wetland | Nontidal Freshwater Perennial Emergent Wetland | Grassland |
| Tidal Freshwater Emergent Wetland | Alkali Seasonal Wetland Complex | Inland Dune Scrub |
| Valley/Foothill Riparian | Vernal Pool Complex | Cultivated Land |
| | Managed Wetland | Developed |

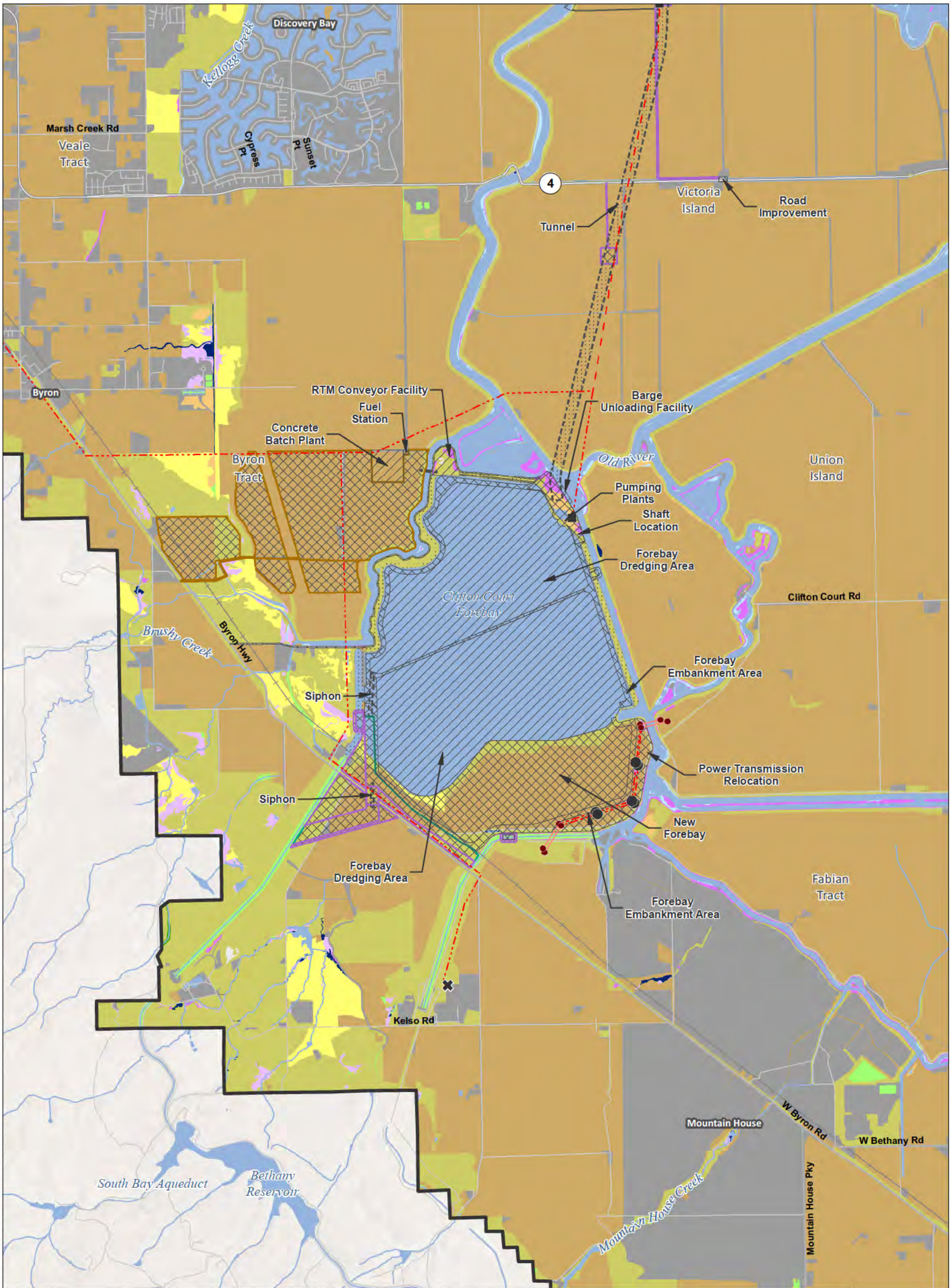


*Surface impacts are not expected to result from subsurface features.
 **In-river features are not a permanent impact to navigation.
 ***Surface impacts will only occur at sites selected for geotechnical explorations.
 See Ch. 3, Section 3.6.1.10 for more information



Sources: Plan Area, ICF 2012; DWR DCE MPTO Construction Footprint (rev 5a); Natural Communities, ICF 2011

Figure M12-4: Sheet 5 of 8
Distribution of Natural Communities — Modified Pipeline/Tunnel Alignment (Alternative 4)

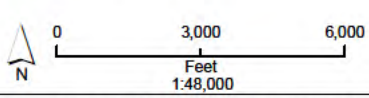


Refer to mapbook index page for conveyance construction footprint symbology

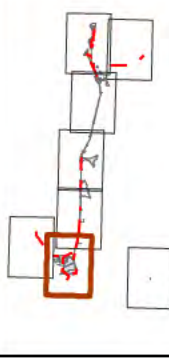
Legend

Natural Communities

- | | | |
|-----------------------------------|--|--------------------------------|
| Tidal Perennial Aquatic | Nontidal Perennial Aquatic | Other Natural Seasonal Wetland |
| Tidal Brackish Emergent Wetland | Nontidal Freshwater Perennial Emergent Wetland | Grassland |
| Tidal Freshwater Emergent Wetland | Alkali Seasonal Wetland Complex | Inland Dune Scrub |
| Valley/Foothill Riparian | Vernal Pool Complex | Cultivated Land |
| | Managed Wetland | Developed |



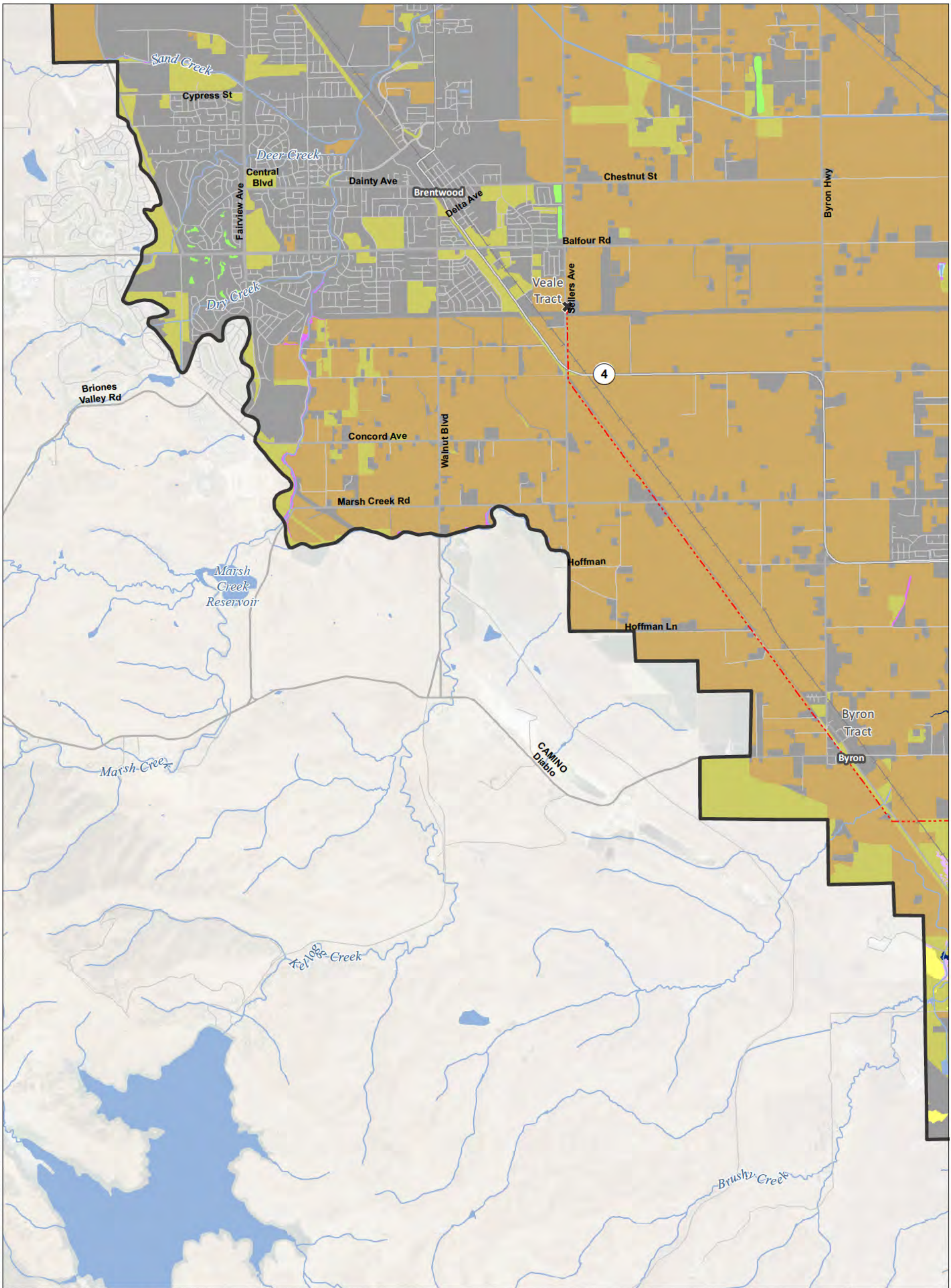
*Surface impacts are not expected to result from subsurface features.
 **In-river features are not a permanent impact to navigation.
 ***Surface impacts will only occur at sites selected for geotechnical explorations.
 See Ch. 3, Section 3.6.1.10 for more information





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Sources: Plan Area, ICF 2012; DWR DCE MPTO Construction Footprint (rev 5a); Natural Communities, ICF 2011

**Figure M12-4: Sheet 6 of 8
 Distribution of Natural Communities — Modified Pipeline/Tunnel Alignment (Alternative 4)**

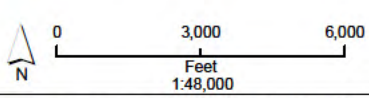


Refer to mapbook index page for conveyance construction footprint symbology  

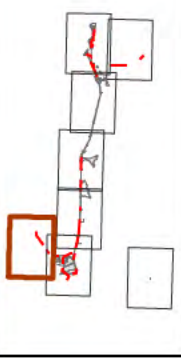
Legend

Natural Communities

- | | | |
|---|--|--|
|  Tidal Perennial Aquatic |  Nontidal Perennial Aquatic |  Other Natural Seasonal Wetland |
|  Tidal Brackish Emergent Wetland |  Nontidal Freshwater Perennial Emergent Wetland |  Grassland |
|  Tidal Freshwater Emergent Wetland |  Alkali Seasonal Wetland Complex |  Inland Dune Scrub |
|  Valley/Foothill Riparian |  Vernal Pool Complex |  Cultivated Land |
| |  Managed Wetland |  Developed |



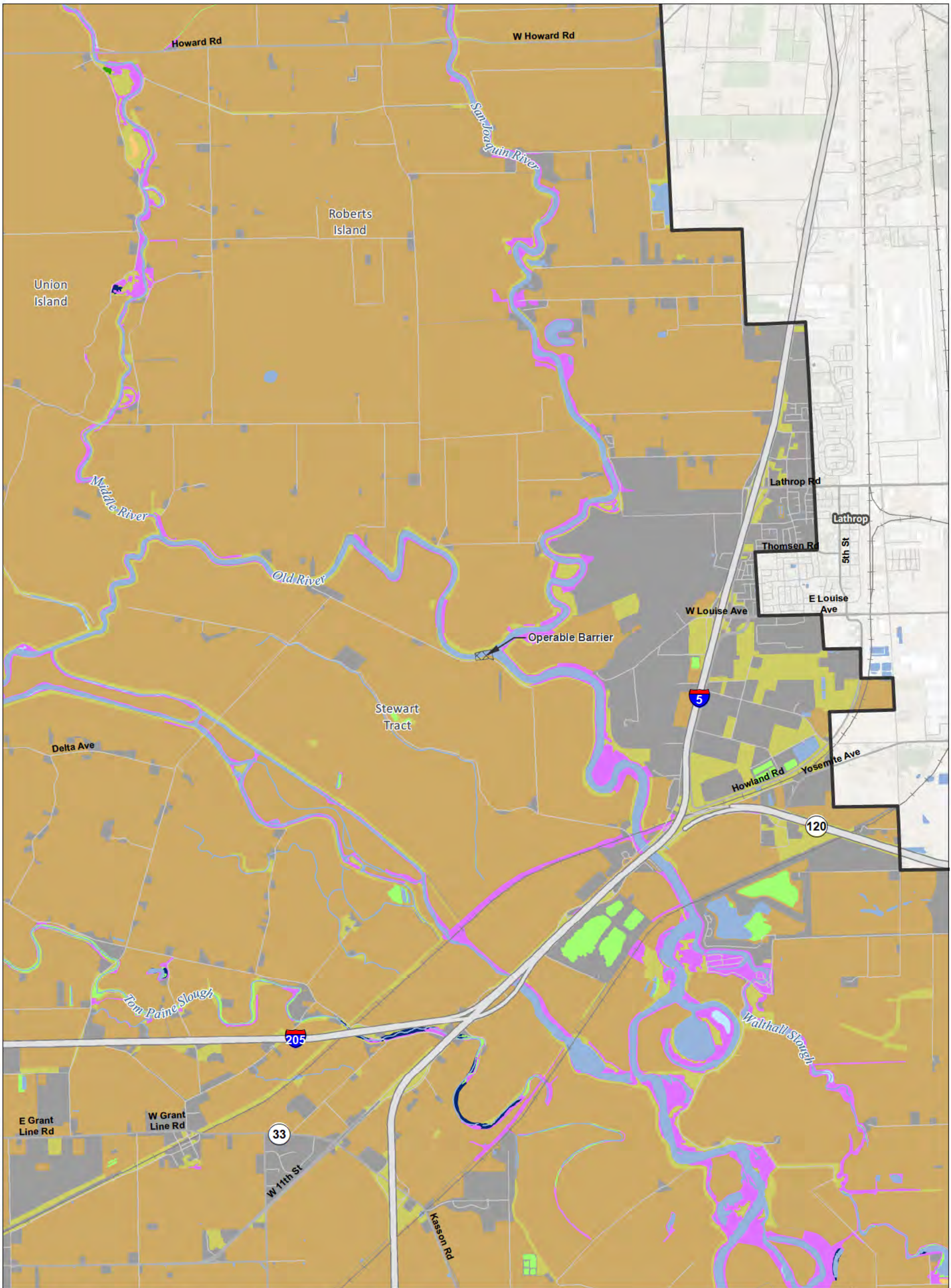
*Surface impacts are not expected to result from subsurface features.
 **In-river features are not a permanent impact to navigation.
 ***Surface impacts will only occur at sites selected for geotechnical explorations.
 See Ch. 3, Section 3.6.1.10 for more information



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Sources: Plan Area, ICF 2012; DWR DCE MPTO Construction Footprint (rev 5a); Natural Communities, ICF 2011

Figure M12-4: Sheet 7 of 8
Distribution of Natural Communities — Modified Pipeline/Tunnel Alignment (Alternative 4)

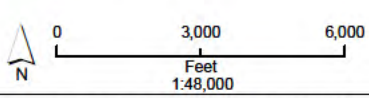


Refer to mapbook index page for conveyance construction footprint symbology

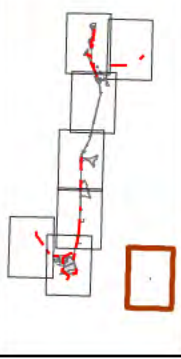
Legend

Natural Communities

- | | | |
|-----------------------------------|--|--------------------------------|
| Tidal Perennial Aquatic | Nontidal Perennial Aquatic | Other Natural Seasonal Wetland |
| Tidal Brackish Emergent Wetland | Nontidal Freshwater Perennial Emergent Wetland | Grassland |
| Tidal Freshwater Emergent Wetland | Alkali Seasonal Wetland Complex | Inland Dune Scrub |
| Valley/Foothill Riparian | Vernal Pool Complex | Cultivated Land |
| | Managed Wetland | Developed |



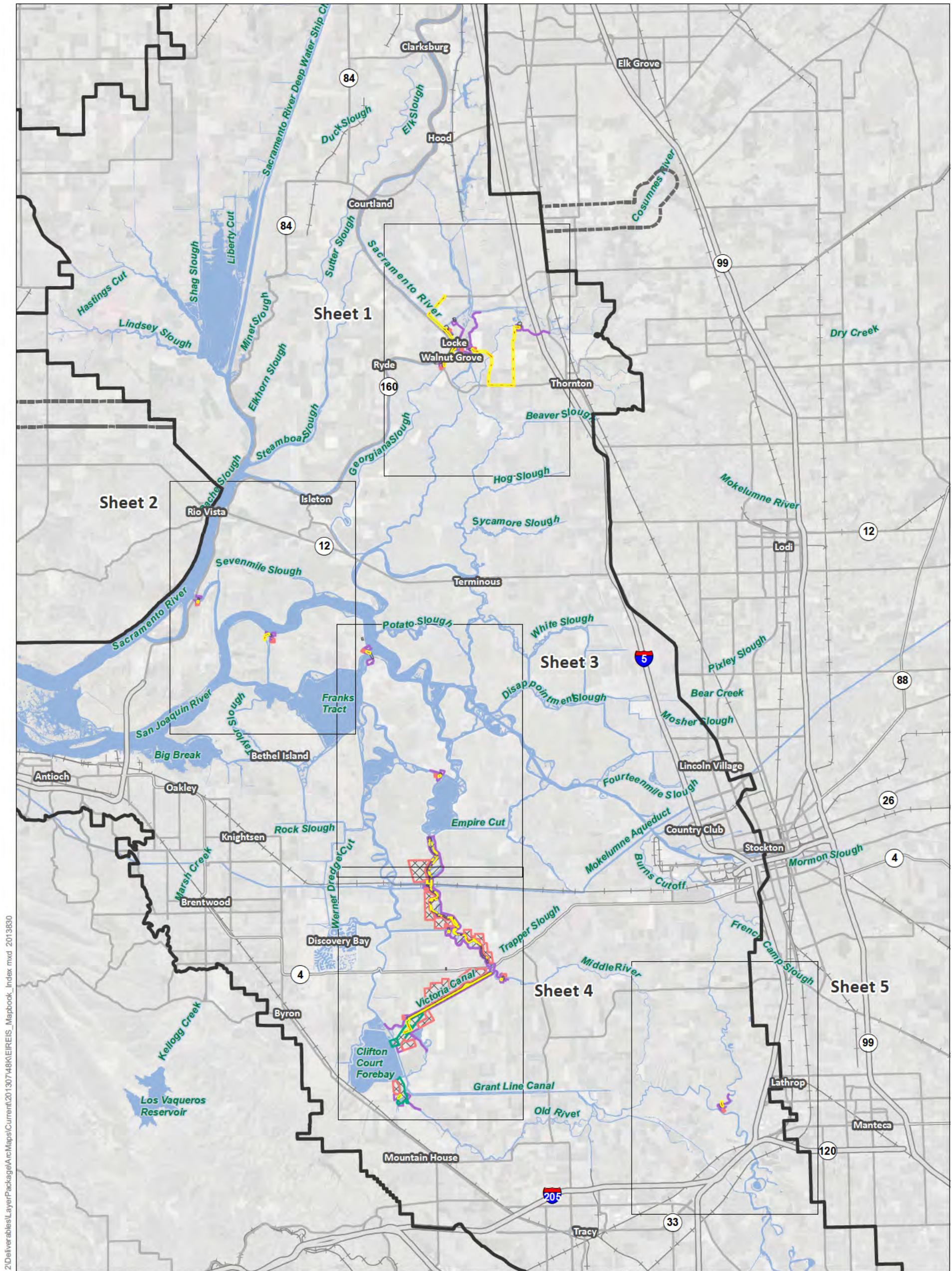
*Surface impacts are not expected to result from subsurface features.
 **In-river features are not a permanent impact to navigation.
 ***Surface impacts will only occur at sites selected for geotechnical explorations.
 See Ch. 3, Section 3.6.1.10 for more information



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Sources: Plan Area, ICF 2012; DWR DCE MPTO Construction Footprint (rev 5a); Natural Communities, ICF 2011

Figure M12-4: Sheet 8 of 8
Distribution of Natural Communities — Modified Pipeline/Tunnel Alignment (Alternative 4)



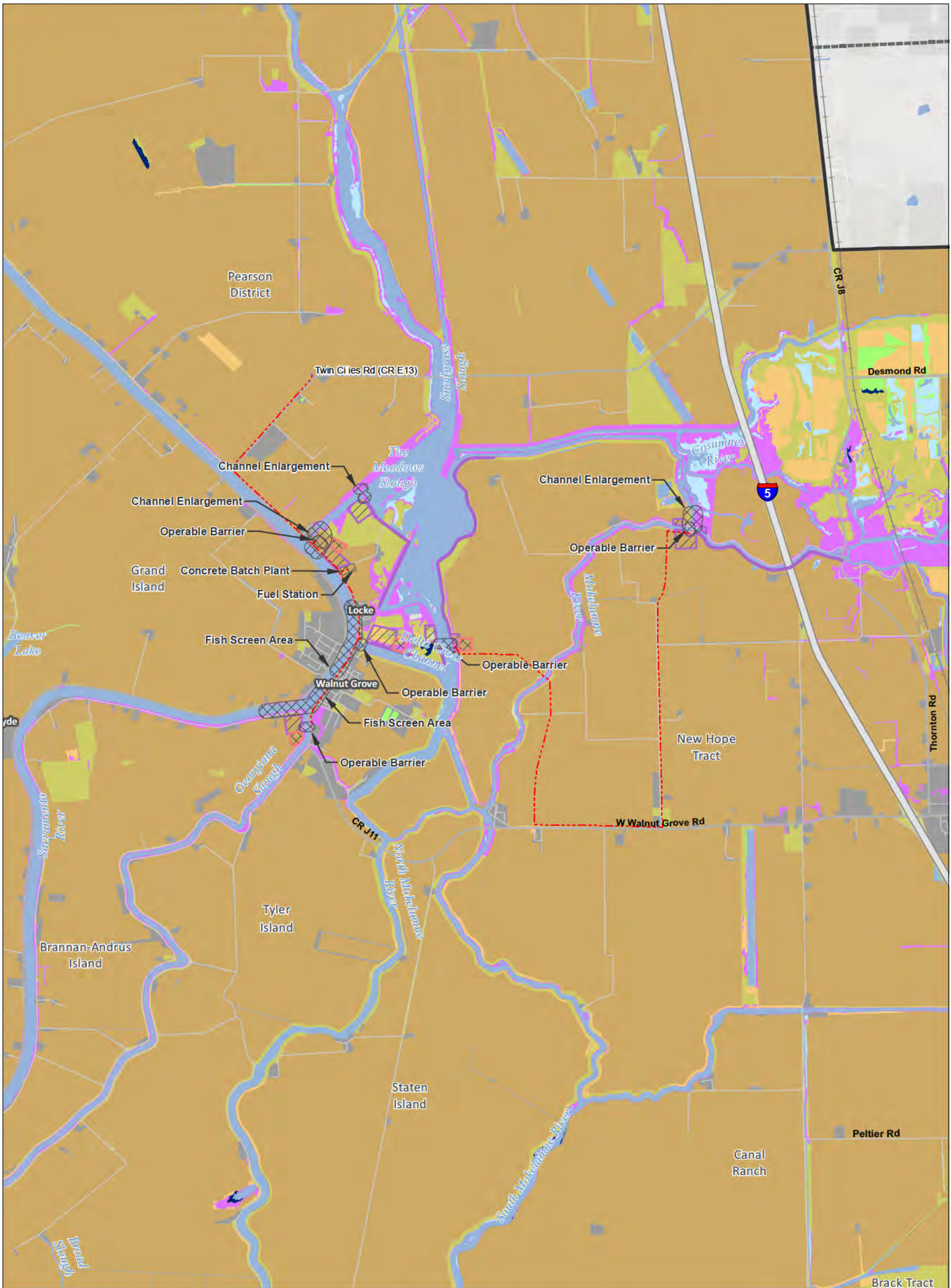
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Legend		
Interstate	Conveyance Construction Footprint	Proposed Power
State Highway/Route	Temporary Surface Impact	Permanent OH Transmission Line
Railroad	Work Area	
Plan Area	Other	
Areas of Additional Analysis (Outside of Legal Delta; for Power Only)	Permanent Surface Impact	
Water	Canal	
	Borrow and/or Spoil	
	Dredging	
	Other	



*Surface impacts are not expected to result from subsurface features. **In-river features are not a permanent impact to navigation.

Sources: DWR DHCCP Construction Footprint (rev 3b), ICF 2012; NAIP 2010

Figure M12-5: Index Distribution of Natural Communities — Through Delta/Separate Corridors

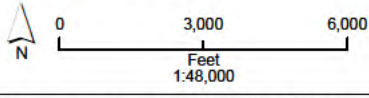


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Refer to mapbook index page for conveyance construction footprint symbology  

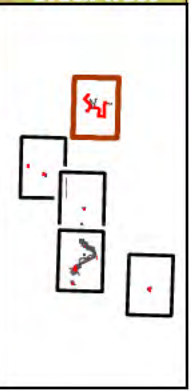
Legend

- | | | |
|---|--|---|
|  Cultivated Lands |  Managed Wetland |  Tidal Freshwater Emergent Wetland |
|  Alkali Seasonal Wetland Complex |  Nontidal Freshwater Perennial Emergent Wetland |  Tidal Perennial Aquatic |
|  Grassland |  Nontidal Perennial Aquatic |  Valley/Foothill Riparian |
|  Inland Dune Scrub |  Other Natural Seasonal Wetland |  Vernal Pool Complex |
| |  Tidal Brackish Emergent Wetland |  Developed |



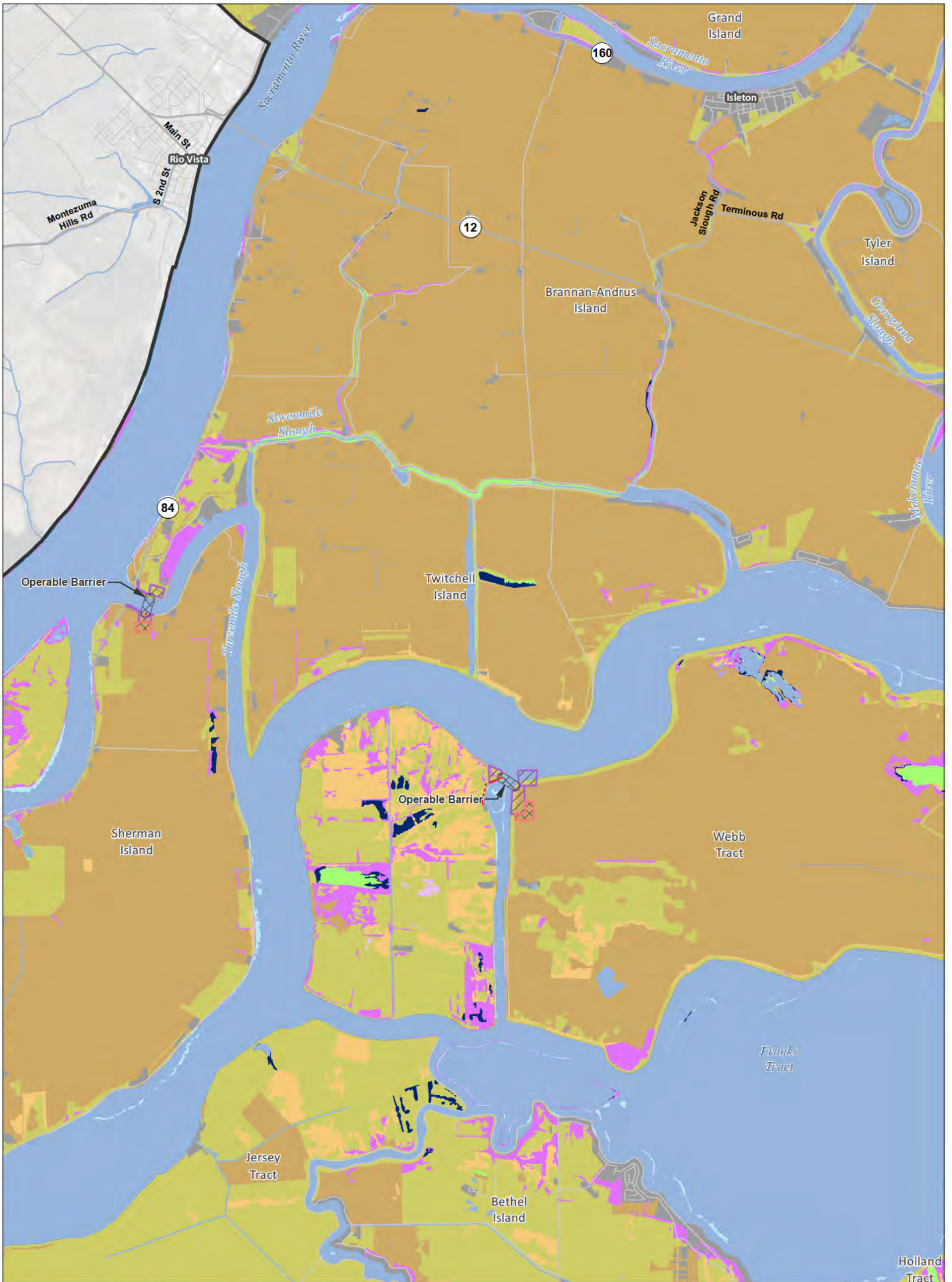
*Surface impacts are not expected to result from subsurface features.

**In-river features are not a permanent impact to navigation.



Sources: Plan Area, SAIC 2010; DWR DHCCP Construction Footprint SCO (rev 2c); Natural Communities, ICF 2011

Figure M12-5: Sheet 1 of 5 Distribution of Natural Communities — Through Delta/Seaside Corridors

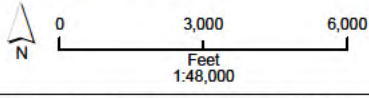


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Refer to mapbook index page for conveyance construction footprint symbology

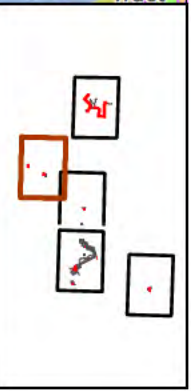
Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |



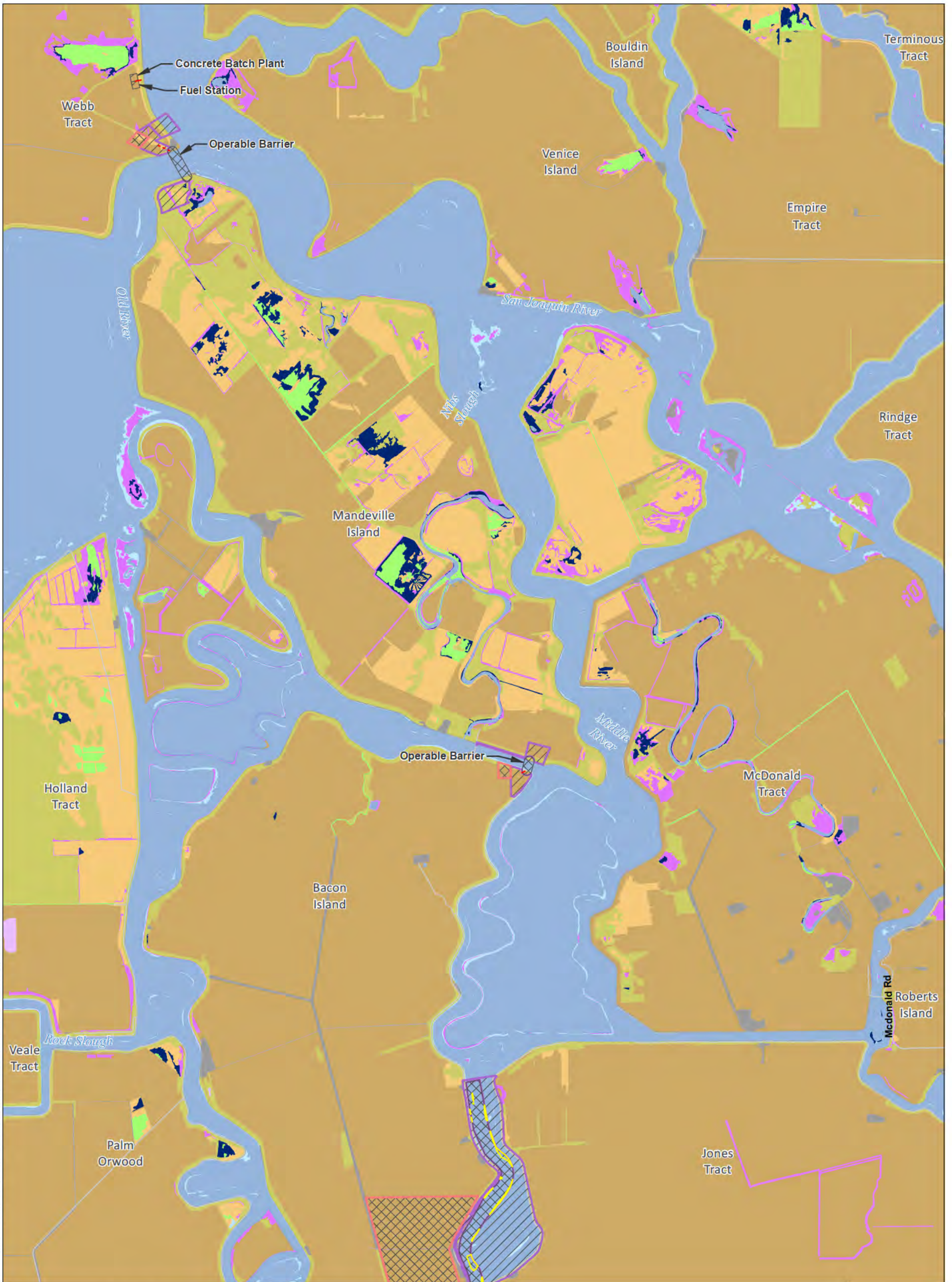
*Surface impacts are not expected to result from subsurface features.

**In-river features are not a permanent impact to navigation.



Sources: Plan Area, SAIC 2010; DWR DHCCP Construction Footprint SCO (rev 2c); Natural Communities, ICF 2011

Figure M12-5: Sheet 2 of 5 Distribution of Natural Communities — Through Delta/Separate Corridors

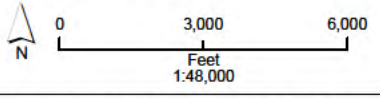


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Refer to mapbook index page for conveyance construction footprint symbology

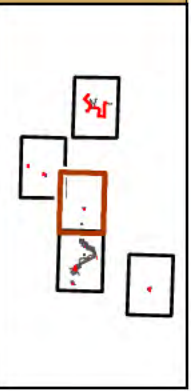
Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |



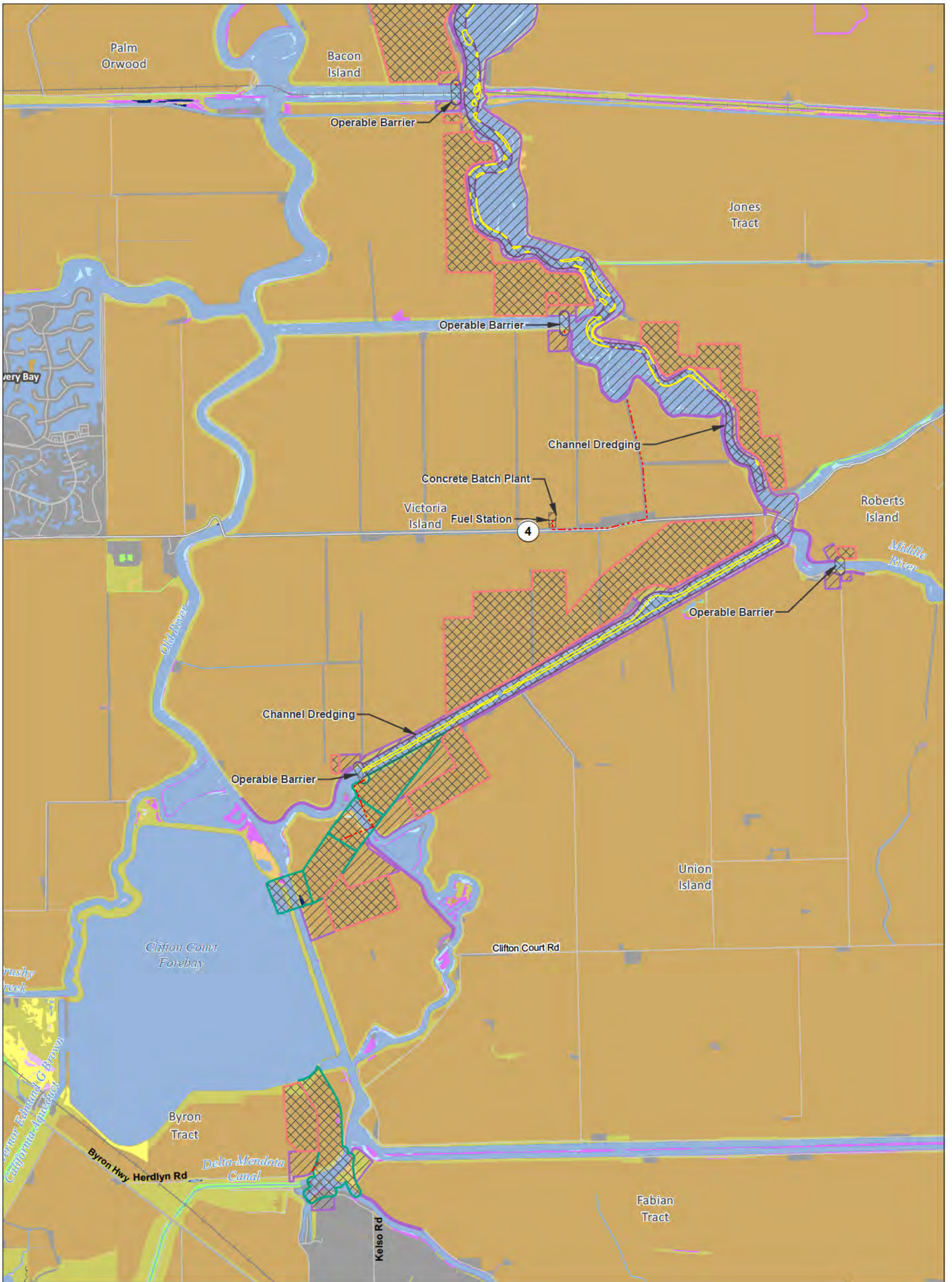
*Surface impacts are not expected to result from subsurface features.

**In-river features are not a permanent impact to navigation.



Sources: Plan Area, SAIC 2010; DWR DHCCP Construction Footprint SCO (rev 2c); Natural Communities, ICF 2011

Figure M12-5: Sheet 3 of 5
Distribution of Natural Communities — Through Delta/Separate Corridors

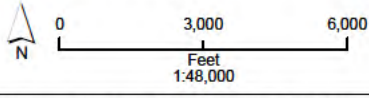


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Refer to mapbook index page for conveyance construction footprint symbology

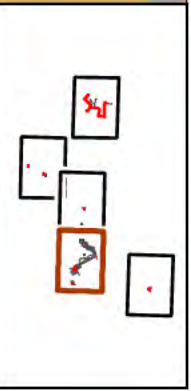
Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |



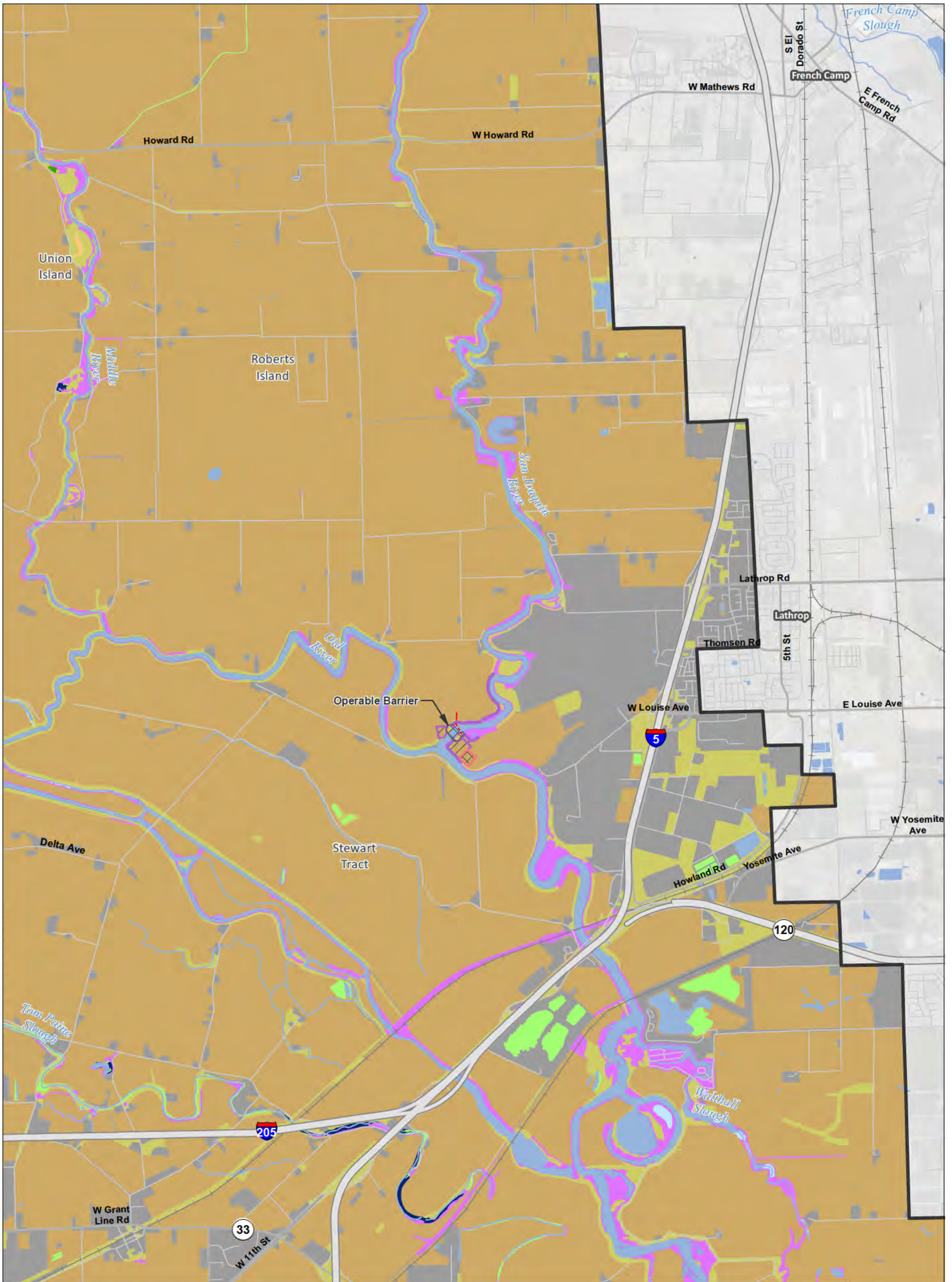
*Surface impacts are not expected to result from subsurface features.

**In-river features are not a permanent impact to navigation.



Sources: Plan Area, SAIC 2010, DWR DHCCP Construction Footprint SCO (rev 2c); Natural Communities, ICF 2011

**Figure M12-5: Sheet 4 of 5
Distribution of Natural Communities — Through Delta/Separate Corridors**

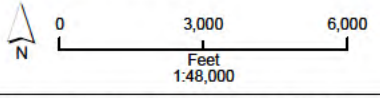


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Refer to mapbook index page for conveyance construction footprint symbology

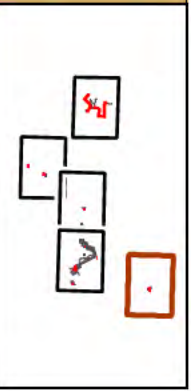
Legend

- | | | |
|---------------------------------|--|-----------------------------------|
| Cultivated Lands | Managed Wetland | Tidal Freshwater Emergent Wetland |
| Alkali Seasonal Wetland Complex | Nontidal Freshwater Perennial Emergent Wetland | Tidal Perennial Aquatic |
| Grassland | Nontidal Perennial Aquatic | Valley/Foothill Riparian |
| Inland Dune Scrub | Other Natural Seasonal Wetland | Vernal Pool Complex |
| | Tidal Brackish Emergent Wetland | Developed |



*Surface impacts are not expected to result from subsurface features.

**In-river features are not a permanent impact to navigation.



Sources: Plan Area, SAIC 2010; DWR DHCCP Construction Footprint SCO (rev 2c); Natural Communities, ICF 2011

Figure M12-5: Sheet 5 of 5 Distribution of Natural Communities — Through Delta/Seperate Corridors