Figure M3-4: Sheet 2 of 15
Modified Pipeline/Tunnel Alignment (Alternative 4)
**Legend**
- **Plan Area**
- **Areas of Additional Analysis**
  (Outside of Legal Delta; for Power Only)
- **Interconnection Point**
- **Proposed Permanent OH Transmission Line**
- **Proposed Temporary OH Transmission Line**
- **Canal**
- **Operable Barrier**
- **Permanent Access Road**
- **Forebay**
- **Siphon**
- **Temporary Access Road**
- **Tunnel**
- **Tunnel Conveyor**
- **Dredging**
- **Proposed Subsurface Easement**
- **Proposed Permanent Surface Impact**
- **Proposed Temporary Surface Impact**
- **Proposed Potential Borrow And/Or Spoil**
- **Reusable Tunnel Material Area**
- **Barge Unloading Facility**
- **Safe Haven Work Area**
- **Fuel Station**
- **Concrete Batch Plant**

*Surface impacts are not expected to result from subsurface features.
**No river features are not a permanent impact to navigation.
***Surface impacts will only occur at sites selected for geotechnical explorations.*

**Sources:**
- Plan Area, SAIC 2010
- DWR DHCCP Engineering (rev 5a)
- NAP 2014

**Figure M3-4: Sheet 8 of 15**

**Modified Pipeline/Tunnel Alignment (Alternative 4)**
Legend

- Plan Area
- Areas of Additional Analysis
  (Outside of Legal Delta; for Power Only)
- Interconnection Point
- Proposed Permanent OH Transmission Line
- Proposed Temporary OH Transmission Line
- Canal
- Operable Barrier
- Permanent Access Road
- Siphon
- Temporary Access Road
- Tunnel
- Tunnel Conveyor
- Dredging
- Forebay
- Forebay Embankment
- Forebay Overflow
- Intake
- Geotech Planning Area

- Proposed Subsurface Easement
- **Proposed Permanent Surface Impact
- Proposed Temporary Surface Impact
- Proposed Potential Borrow Area (Spoil)
- Reusable Tunnel Material Area
- Barge Unloading Facility
- Safe Haven Work Area
- Fuel Station
- Concrete Batch Plant
- Intake

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.

Figure M3-4: Sheet 9 of 15
Modified Pipeline/Tunnel Alignment (Alternative 4)

Sources: Plan Area, SAIC 2010; DWR CH-CEP Engineering (rev 5a); NAR 2014
Legend:

- Plan Area
- Areas of Additional Analysis
  (Outside of Legal Delta; for Power Only)
- Interconnection Point
- Proposed Permanent OH Transmission Line
- Proposed Temporary OH Transmission Line
- Canal
- Permeable Barrier
- Canal
- Permeable Barrier
- Permanent Access Road
- Forebay Embankment
- Temporary Access Road
- Forebay Overflow
- Shaft
- Tunnel
- Tunnel Conveyor
- Proposed Subsurface Easement
- Proposed Permanent Surface Impact
- Proposed Temporary Surface Impact
- Proposed Potential Borrow Area
- Reusable Tunnel Material Area
- Barge Unloading Facility
- Safe Haven Work Area
- Fuel Station
- Concrete Batch Plant

*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.

Sources: Plan Area, CAL-305 (2010); DWR DH-ICP Engineering (2011); SAIC (2014)

Figure M3-4: Sheet 1 of 15
Modified Pipeline/Tunnel Alignment (Alternative 4)
Figure M3-4: Sheet 11 of 15
Modified Pipeline/Tunnel Alignment (Alternative 4)

Legend:
- Canal
- Portable Barrier
- Permanent Access Road
- Siphon
- Temporary Access Road
- Intake
- Geotechnical Planning Area
- Concrete Batch Plant
- Safe Haven Work Area
- Pipeline/Transmission Line
- *Proposed Subsurface Easement
- **Proposed Temporary Surface Impact
- Proposed Permanent Surface Impact
- Proposed Potential Borrow Area
- Reusable Tunnel Material Area
- Barge Unloading Facility
- Safe Haven Work Area
- Past Station

Sources:
- (Plan Area, 2016; DWR DHCCP Engineering; 2016; NAP 2014)
Modified Pipeline/Tunnel Alignment (Alternative 4)

Legend:
- Plan Area
- Areas of Additional Analysis (Outside of Legal Delta; for Power Only)
- Interconnection Point
- Proposed Permanent OH Transmission Line
- Proposed Temporary OH Transmission Line
- Canal
- Dredging
- Proposed Subsurface Easement
- Proposed Permanent Surface Impact
- Proposed Temporary Surface Impact
- Proposed Potential Borrow Area
- Reusable Tunnel Material Area
- Range Unloading Facility
- Safe Haven Work Area
- Fuel Station
- Intake
- Tunnel
- Tunnel Conveyor
- Drainage
- Intake
- Forebay Overflow
- Forebay Embankment
- Barge Unloading Facility
- Safe Haven Work Area
- Fuel Station
- Concrete Batch Plant
- Fuel Station
- Concrete Batch Plant
- Surface impacts are not expected to result from subsurface features.
- **In-water features are not a permanent impact to navigation.
- Surface impacts will only occur at sites selected for geotechnical explorations.

Sources: Plan Area, 2010; DWR 2012; SAIC 2012

Figure M3-4: Sheet 12 of 15
Legend

- Plan Area
- Areas of Additional Analysis
  (Outside of Legal Delta; for Power Only)
- Intercollection Point
- Siphon
- Intake
- Reusable Tunnel Material Area
- Barge Unloading Facility
- Safe Haven Work Area
- Fuel Station

- Canal
- Dredging
- Forebay
- Forebay Embankment
- Intake
- Tunnel
- Tunnel Conveyor
- Deepening
- Proposed Permanent Easement
- Proposed Temporary Impact
- Proposed Permanen Surface Impact
- Proposed Temporary Surface Impact
- Proposed Potential Borrow Area
- Proposed Potential Spoil Area
- Reusable Tunnel Material Area
- Safe Haven Work Area
- Fuel Station
- Concrete Batch Plant

Surface impacts are not expected to result from subsurface features.

**Surface impacts will only occur at sites selected for geotechnical explorations.

Seal On 3, Section 3.6.1.15 for more information.

Figure M3-4: Sheet 14 of 15
Modified Pipeline/Tunnel Alignment (Alternative 4)
Legend
- Plan Area
- Areas of Additional Analysis
  (Outside of Legal Delta; for Power Only)
- Interconnection Point
- Proposed Permanent CH Transmission Line
- Proposed Temporary CH Transmission Line
- Canal
- Operable Barrier
- Permanent Access Road
- Siphon
- Temporary Access Road
- Tunnel
- Tunnel Conveyor
- Developing
- Forebay
- Forebay Embankment
- Forebay Overflow
- Seawall
- Geotech Planning Area
- Reusable Tunnel Material Area
- Bulk Unloading Facility
- Safe Haven Work Area
- Fuel Station
- Concrete Batch Plant

*Proposed Subsurface Easement
**Proposed Permanent Surface Impact
***Proposed Temporary Surface Impact
****Proposed Potential Borrow Area (Spoil)
*****Reuseable Tunnel Material Area
******Bulk Unloading Facility
*******Safe Haven Work Area
********Fuel Station
**********Concrete Batch Plant

*Surface impacts are not expected to result from subsurface features.
**No river features are not a permanent impact to navigation.
***Surface impacts will only occur at sites selected for geotechnical explorations.

Sources: [Plan Area, 2010.05.05]; California Department of Water Resources; San Joaquin River 2008

Figure M3-4: Sheet 15 of 15
Modified Pipeline/Tunnel Alignment (Alternative 4)