Inventory and Evaluation of Levee Utility Encroachments – Sutter Butte Flood Control Agency ULDC Evaluation, Feather River West Levee (Star Bend to Thermalito Afterbay)

| Table 3.12A‑1. Project Area B - Encroachments (Star Bend Road to Shanghai Bend Road) | | | |
| --- | --- | --- | --- |
| Feature | Approximate Location | Description | Hazard Rating and Comments |
| USACE Relief Wells and Concrete Lined Ditch | Station 512+08 to 544+94  Unit 144  LM 4.39 to LM 5.02 | Twenty-Five (25) Observation Wells located at landside toe with a concrete lined canal at landside levee toe. | **Moderate Hazard** |
| Facilities meet Title 23 standards. |
| The USACE pump tested as relief wells in February 2010. |
| AECOM recommend the wells be abandoned once the slurry wall is constructed. The slurry wall was constructed in 2014 and the relief well are scheduled for abandoned in 2016. |
| The relief wells do not have CVFPB Encroachment Permit. No encroachment permit shall be required since scheduled to be abandoned. |
| Private Waterside Access Ramp | Station 543+25  Unit 144  LM 4.99 | Waterside Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Bains Ranch and CDFW and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application was submitted on December 3, 2015 and the tracking number is T2016014. |
| Private Landside Levee Patrol Road | Station 532+00 to 641+75  Unit 144  LM 4.77 to LM 6.85 | Landside Levee Patrol road was paved for use by adjacent property owner. | **Low Hazard** |
| Landside Levee Patrol Road meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Landside paved patrol road is maintained by Sierra Gold Nurseries and is in operable condition. No performance issues with this road have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. |
| Private Landside Access Ramp | Station 561+10  Unit 144  LM 5.32 | Landside Access Ramp | **Low Hazard** |
| Access ramp does meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Bains Ranch and CDFW and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application was submitted on December 3, 2015 and the tracking number is T2016015. |
| Waterside Training Levee | Station 587+00  Unit 144  LM 5.81 | Private Waterside Training Levee installed in 1963 to protect orchard land | **Low Hazard** |
| Waterside Training Levee meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Training levee is required to be maintained by CDFW and is in operable condition. No performance issues with this training levee have been identified. |
| The encroachment is covered under CVFPB Encroachment Permit No. 4254 BD. No modification to the encroachment required. |
| 12 kV Overhead Power Line Levee Crossing | Station 592+67  Unit 144  LM 5.92 | Overhead power lines with poles outside of 15 foot toe corridors | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than 15 feet from the levee toes. Cables have a clearance over the levee crown of at least 25 feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles |
| The encroachment is covered by CVFPB Permit No. 4530 BD. |
| Private Landside Access Ramp | Station 599+00  Unit 144  LM 6.04 | Landside Access Ramp | **Low Hazard** |
| Access ramp does meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by CDFW and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application was submitted on December 3, 2015 and the tracking number is T2016013. |
| Private Waterside Access Ramp | Station 646+00  Unit 144  LM 6.93 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Feather Water District and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application was submitted on December 3, 2015 and the tracking number is T2016012. |
| Private Landside Access Ramp | Station 646+00  Unit 144  LM 6.93 | Landside Access Ramp | **Low Hazard** |
| Access ramp does meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Feather Water District and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application was submitted on December 3, 2015 and the tracking number is T2016012. |
| Overhead Power Line | Station 649+11  Unit 144  LM 6.99 | Overhead power lines with poles outside of 15 foot toe corridors | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than 15 feet from the levee toes. Cables have a clearance over the levee crown of at least 25 feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles |
| The encroachment is covered by CVFPB Permit No. 4378 BD. |
| Private Landside Access Road | Station 660+75 to 674+45  Unit 144  LM 7.21 to LM 7.47 | Landside Levee Patrol road was paved for use by adjacent property owner. | **Low Hazard** |
| Landside levee patrol road meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Landside paved patrol road is maintained by Sierra Gold Nurseries and is in operable condition. No performance issues with this road have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. |
| 12 kV Overhead Power Line Levee Crossing | Station 689+00  Unit 144  LM 6.99 | Overhead power lines with poles outside of 15 foot toe corridors | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than 15 feet from the levee toes. Cables have a clearance over the levee crown of at least 25 feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles |
| The encroachment is covered by CVFPB Permit No. 11663 BD. |
| County of Sutter Landside Access Ramp | Station 704+35  Unit 144  LM 8.04 | Landside Paved Access Ramp | **Low Hazard** |
| Access ramp does meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by County of Sutter and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application was submitted on April 24, 2015. |
| County of Sutter Waterside Access Ramp | Station 704+35  Unit 144  LM 8.04 | Waterside Paved Access Ramp | **Low Hazard** |
| Access ramp does meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by County of Sutter and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application was submitted on April 24, 2015. |
| 12 kV Overhead Power Line Levee Crossing | Station 750+10  Unit 144  LM 8.91 | Overhead power lines with poles outside of 15 foot toe corridors | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than 15 feet from the levee toes. Cables have a clearance over the levee crown of at least 25 feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles |
| The encroachment is covered by CVFPB Permit No. 3665 BD. |
| 115 kV Overhead Power Line Levee Crossing | Station 750+40  Unit 144  LM 8.91 | Overhead power lines with poles outside of 15 foot toe corridors | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than 15 feet from the levee toes. Cables have a clearance over the levee crown of at least 25 feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles |
| The encroachment is covered by CVFPB Permit No. 7647 BD. |
| Landside 12 kV Overhead Power Line | Station 749+50 to 761+50  Unit 144  LM 8.89 to LM 9.12 | Power poles (4) running at or within levee toe. | **Low Hazard** |
| Encroachment does not impact levee stability. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| SBFCA will work with PG&E to relocate the powerlines to the west side of Garden Highway or obtain a variance to allow poles to remain. The encroachment is not covered by CVFPB Permit. SBFCA will work with PG&E to obtain an encroachment permit for this crossing or have the poles relocated. |

| Table 3.12A‑2 Project Area C - Encroachments (Shanghai Bend Road to Campbell Road) | | | |
| --- | --- | --- | --- |
| Feature | Approximate Location | Description | Hazard Rating and Comments |
| City of Yuba City Observation Wells | Station 844+50 to 881+50  Unit 144  LM 10.69 to LM 11.39 | Twenty (20) Observation Wells located at landside toe with a subsurface collection system. | **Low Hazard** |
| Observation wells meet Title 23 requirements. |
| LD 1 and SBFCA pump tested as relief wells in 2012 prior to be converted to observation wells. |
| AECOM recommend the wells be converted to observation wells until the next high water event confirms the slurry cutoff wall works. |
| SBFCA has been working with CVFPB to amend individual encroachment permit no. 15850. The wells were previously relief wells prior to installation of slurry wall. The application was submitted on January 15, 2016. |
| USACE Observation Wells | Station 845+50 to 927+00  Unit 144  LM 10.71 to LM 12.25 | Forty (40) Observation Wells located at landside toe with a landside earth lined channel located at landside levee toe. | **Low Hazard** |
| Observation wells meet Title 23 requirements |
| LD 1 and SBFCA pump tested as relief wells in 2012 prior to be converted to observation wells. |
| AECOM recommend the wells be converted to observation wells until the next high water event confirms the slurry cutoff wall works. At this time, the observation wells can be abandoned. |
| The observation wells do not have CVFPB Encroachment Permit. The observation wells are considered part of the flood control system so no encroachment shall be obtained. The facility will become part of the Supplemental O&M Manual for Unit 144 and LD 1 will operate and maintain until abandonment. |
| SACOG Telephone Call Box | Station 849+85  Unit 144  LM 10.79 | Emergency telephone call box and solar panel located on landside hinge. | **Low Hazard** |
| Emergency call box meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Call box are maintained by SACOG and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| Yuba City Landside Access Ramp | Station 850+50  Unit 144  LM 10.80 | Landside Paved Access Ramp | **Low Hazard** |
| Access ramp does meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is maintained by City of Yuba City and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment is covered under CVFPB Encroachment Permit No. 16820 BD. No modification to encroachment required. |
| USACE Observation Wells | Station 881+50 to 927+00  Unit 144  LM 11.39 to LM 12.25 | Twenty-Three (23) Observation Wells located at landside toe with a landside concrete lined channel located at landside levee toe. | **Low Hazard** |
| Observation wells meet Title 23 requirements. |
| LD 1 and SBFCA pump tested as relief wells in 2012 prior to be converted to observation wells. |
| AECOM recommend the wells be converted to observation wells until the next high water event confirms the slurry cutoff wall works. At this time, the observation wells can be abandoned. |
| The observation wells do not have CVFPB Encroachment Permit. The observation wells are considered part of the flood control system so no encroachment shall be obtained. The facility will become part of the Supplemental O&M Manual for Unit 144 and LD 1 will operate and maintain until abandonment. |
| 12 kV Overhead Power Line Levee Crossing | Station 894+25  Unit 144  LM 11.63 | PG&E 12 kV Overhead powerline crossing poles | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than 30 feet from landside toe and 15 feet from waterside levee toes. Cables have a clearance over the levee crown of at least 25 feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles |
| The encroachment is covered by CVFPB Permit No. 18911 BD. |
| SACOG Telephone Call Box | Station 925+16  Unit 144  LM 12.22 | Emergency telephone call box and solar panel located on landside hinge. | **Low Hazard** |
| Telephone call boxes meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Call box are maintained by SACOG and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| County of Sutter Landside Access Ramp | Station 926+50  Unit 144  LM 12.24 | Landside Paved Access Ramp | **Low Hazard** |
| Access ramp does meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by County of Sutter and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment is covered under CVFPB Encroachment Permit No. 7460 BD. No modification to encroachment required. |
| County of Sutter Waterside Access Ramp | Station 926+50  Unit 144  LM 12.24 | Waterside Paved Access Ramp | **Low Hazard** |
| Access ramp does meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by County of Sutter and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment is covered under CVFPB Encroachment Permit No. 7460 BD. No modification to encroachment required. |
| PG&E Natural Gas Pipeline at Landside Toe | Station 930+00 to 951+25  Unit 144  LM 12.31 to LM 12.71 | Natural gas pipeline running parallel to landside levee toe from toe to ten (10) feet. | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability. Line does not meet setback standards and needs to be relocated. |
| Natural gas pipeline is maintained by PG&E and are in operable condition. No performance issues with this gas line have been identified |
| SBFCA and LD 1 will work with PG&E to relocate the gas line to the west side of Second Street. The encroachment is not covered by CVFPB Permit. LD 1 made this a requirement for an endorsement of Pipeline 124 A work. SBFCA will work with PG&E to obtain an encroachment permit with variance for gas line or have the gas line relocated. |
| Landside 12 kV Overhead Power Line | Station 958+95 to 971+60  Unit 144  LM 12.86 to LM 13.10 | Power poles (6) running at or within fifteen (15) of levee toe. | **Low Hazard** |
| Facilities meet Title 23 setback requirements. |
| Encroachment does not impact levee stability. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| The facilities are not covered by CVFPB Permit. SBFCA will work with PG&E to relocated or verify they are outside of CVFPB jurisdiction. Once relocated or verified, No encroachment permit required since outside of CVFPB jurisdiction. Facilities are noted since listed on USACE Periodic Inspection. |
| SACOG Telephone Call Box | Station 964+78  Unit 144  LM 12.97 | Emergency telephone call box and solar panel located on landside hinge. | **Low Hazard** |
| Telephone call boxes meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Call box are maintained by SACOG and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| County of Sutter Landside Access Ramp | Station 967+50  Unit 144  LM 13.02 | Landside Paved Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by County of Sutter and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| County of Sutter Waterside Access Ramp | Station 967+50  Unit 144  LM 13.02 | Waterside Paved Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by County of Sutter and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 971+70  Unit 144  LM 8.91 | PG&E 12 kV Overhead powerline crossing poles | **Low Hazard** |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than 20 feet from landside toe and 15 feet from waterside levee toes. Cables have a clearance over the levee crown of at least 25 feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| SBFCA will work with PG&E to relocate the power poles to more than 15 feet from levee toes or obtain a variance to allow pole to remain. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain an encroachment permit for this crossing once poles relocated or variance obtained. |
| House and associated improvements | Station 971+70  Unit 144  LM 13.12 | House and associated improvements within 15 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with property owner to obtain an encroachment permit. |
| Stout Residence House and associated improvements | Station 973+30  Unit 144  LM 13.13 | House and associated improvements within 15 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16425 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Brockman Residence House and associated improvements | Station 974+25  Unit 144  LM 13.15 | House and associated improvements within 5 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16426 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Garage and associated improvements | Station 975+40  Unit 144  LM 13.17 | Garage and associated improvements within 5 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16427 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Coble Residence Shed and associated improvements | Station 976+10  Unit 144  LM 13.18 | Shed and associated improvements within 5 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16428 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Levee District fencing and associated improvements | Station 977+60  Unit 144  LM 13.21 | Fencing and associated improvements within 15 feet of levee toe | **Low Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| These improvements do not have CVFPB encroachment permit. SBFCA will work with LD 1 and CVFPB to obtain encroachment permit once adequate is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Filby Residence fencing and associated improvements | Station 978+80  Unit 144  LM 13.23 | Chain link fencing and gates and associated improvements within 5 feet of levee toe | **Low Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16429 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Sandoval Residence Shed and associated improvements | Station 979+40  Unit 144  LM 13.25 | Shed and see through fencing and associated improvements within 5 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16430 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Shed and associated improvements | Station 979+90  Unit 144  LM 13.25 | Shed and fencing and associated improvements within 10 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16431 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Stevenson Residence Fencing and associated improvements | Station 980+15  Unit 144  LM 13.26 | Chain link fencing and associated improvements within 10 feet of levee toe | **Low Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16432 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Ron Souza Residence Shed, Fencing, and associated improvements | Station 981+25  Unit 144  LM 13.28 | Shed, Chain link fencing, and associated improvements within 5 to 15 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16433 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Coakley Residence Building, Fencing, and associated improvements | Station 981+25  Unit 144  LM 13.28 | Building, fencing, and associated improvements on slope to 15 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16434 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Albrecht Residence Building and associated improvements | Station 984+50  Unit 144  LM 13.34 | Building, fencing, and associated improvements within 10 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16435 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Koball Residence Fencing and associated improvements | Station 985+30  Unit 144  LM 13.36 | Chain link fencing and associated improvements within 5 feet of levee toe | **Low Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16436 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Wilkins Residence Structure, Fencing, and associated improvements | Station 986+00  Unit 144  LM 13.37 | Green house structure, retaining wall, fencing and associated improvements on slope to within 10 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16437 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Sanders Residence Swimming Pool, Retaining Wall, and associated improvements | Station 986+75  Unit 144  LM 13.38 | Swimming pool, retaining wall, fencing, and associated improvements on slope to within 10 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16438 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Poole Residence Building, Retaining Wall, and associated improvements | Station 987+60  Unit 144  LM 13.40 | Building, retaining wall, fencing, concrete stairs, and associated improvements on slope to within 10 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16439 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Barr Residence Building, Retaining Wall, and associated improvements | Station 988+50  Unit 144  LM 13.42 | Building, retaining wall, fencing, concrete stairs, and associated improvements on slope to within 10 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16440 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Hall Residence Garage, Shed, Retaining wall, and associated improvements | Station 989+20  Unit 144  LM 13.43 | Garage, shed, retaining wall, fencing, concrete stairs, and associated improvements on slope to within 10 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16441 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| McClendon Residence Building, Fencing, and associated improvements | Station 989+75  Unit 144  LM 13.44 | 2 story house, fencing, retaining wall, concrete stairs, and associated improvements on slope to within 10 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16442 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Dennis McCarly Residence Garage, Shop, Fencing, and associated improvements | Station 990+50  Unit 144  LM 13.46 | Garage, Shop, fencing, retaining wall, concrete stairs, and associated improvements on slope to within 10 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16443 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Frank McCarly Residence Shed, Retaining Wall, Shop, Fencing, and associated improvements | Station 991+00  Unit 144  LM 13.47 | Shed, green house structure, fencing, retaining wall, concrete stairs, and associated improvements on slope to within 10 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16444 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Cosker Residence Shed, Retaining Wall, Shop, Fencing, and associated improvements | Station 992+00  Unit 144  LM 13.48 | Structure, fencing, retaining wall, concrete stairs, and associated improvements on slope to within 10 feet of levee toe | **Moderate Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16445 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Levee District No. 1 Security Fencing | Station 982+75 to 993+56  Unit 144  LM 13.31 to 13.51 | Chain link security fencing crossing and along waterside toe of levee. | **Low Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width exists for inspection, maintenance, and potential flood fight. |
| Levee integrity is not impacted by the current location of the fence |
| Fencing does not have CVFPB Encroachment Permit. Fencing is considered part of the flood control system so no encroachment shall be obtained. The facility will become part of the Supplemental O&M Manual for Unit 144. |
| County of Sutter Structure, Retaining Wall, Shop, Fencing, and associated improvements | Station 995+50  Unit 144  LM 13.55 | Garage, retaining wall, parking lot, and associated improvements on slope to within 10 feet of levee toe | **High Hazard** |
| Does not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA has structure and retaining walls schedule to be removed in 2016. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 13951 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| City of Yuba City Bike Path Access Ramp, Retaining Wall, and associated improvements | Station 998+15 to 1000+60  Unit 144  LM 13.60 to 13.65 | Bike Path Access Ramp, Retaining, Chain link fencing and associated improvements within 5 feet of levee toe | **Low Hazard** |
| Facilities meet Title 23 requirements. |
| Adequate width exists for inspection, maintenance, and potential flood fight. |
| Levee integrity is not impacted by the current location of the improvements |
| The improvements have a CVFPB Permit No. 16618 BD. No modification required at this location. Ramp also used by LD 1 for levee access. |
| Fletcher Building, Retaining Wall, and associated improvements | Station 999+25 to 1000+40  Unit 144  LM 13.62 to 13.64 | Building, retaining wall, and associated improvements at slope to within 10 feet of levee toe | **Moderate Hazard** |
| Facilities meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 15 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16447 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Levee District No. 1 Security Fencing | Station 1000+40 to 1001+00  Unit 144  LM 13.64 to 13.65 | 3-wire barbed wire security fencing crossing within 5 feet of landside levee toe | **Low Hazard** |
| Fencing meets Title 23 requirements since LMA security feature. |
| Adequate width exists for inspection, maintenance, and potential flood fight. |
| Levee integrity is not impacted by the current location of the fence |
| Fencing does have CVFPB Encroachment Permit No. 16448. Fencing is considered part of the flood control system. The facility will become part of the Supplemental O&M Manual for Unit 144. |
| Levee District No. 1 Security Fencing | Station 1002+50 to 1004+00  Unit 144  LM 13.68 to 13.71 | 3-wire barbed wire security fencing crossing within 5 feet of landside levee toe | **Low Hazard** |
| Fencing meets Title 23 requirements since LMA security feature. |
| Adequate width exists for inspection, maintenance, and potential flood fight. |
| Levee integrity is not impacted by the current location of the fence |
| Fencing does have CVFPB Encroachment Permit No. 16531. Fencing is considered part of the flood control system. The facility will become part of the Supplemental O&M Manual for Unit 144. |
| Levee District No. 1 Security Fencing | Station 1004+00 to 1005+50  Unit 144  LM 13.71 to 13.74 | 3-wire barbed wire security fencing crossing within 5 feet of landside levee toe | **Low Hazard** |
| Fencing meets Title 23 requirements since LMA security feature. |
| Adequate width exists for inspection, maintenance, and potential flood fight. |
| Levee integrity is not impacted by the current location of the fence |
| Fencing does have CVFPB Encroachment Permit No. 16449. Fencing is considered part of the flood control system. The facility will become part of the Supplemental O&M Manual for Unit 144. |
| City of Yuba City Street Light | Station 1003+72  Unit 144  LM 13.71 | Street light located landside hinge of levee | **Low Hazard** |
| Street light meets Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Street light is maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| City of Yuba City Pump House, Concrete Stairs | Station 1005+80  Unit 144  LM 13.75 | Concrete stairs located landside slope of levee and pump house with water well within 10 feet of levee. | **Moderate Hazard** |
| Facility does not meet Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Concrete Stairs, Pump House, and water well are maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 16450 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| City of Yuba City Street Light | Station 1006+07  Unit 144  LM 13.75 | Street light located waterside hinge of levee | **Low Hazard** |
| Street light meets Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Street light is maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| City of Yuba City Retaining Wall | Station 1006+00 to 1006+76  Unit 144  LM 13.75 to 13.76 | Eight (8) foot high retaining wall at the landside toe. | **Moderate Hazard** |
| Retaining wall meets Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Retaining wall is maintained by City of Yuba City and is in operable condition. No performance issues have been identified. |
| The improvements have a CVFPB Permit No. 16844 BD. No modification required at this location |
| Union Pacific Railroad Bridge Crossing | Station 1006+60  Unit 144  LM 13.76 | Railroad bridge crossing the Feather River and floodway. | **Low Hazard** |
| Not able to determine if Bridge Crossing meets Title 23 requirements |
| Encroachment does not impact impede levee O&M or flood fighting access. |
| Levee embankment ties into railroad embankment. Railroad embankment is above the levee crown but access across railroad embankment is possible. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with UPRR and CVFPB to obtain an individual encroachment permit. |
| City of Yuba City Highway Bridge Crossing | Station 1007+06 to 1007+51  Unit 144  LM 13.77 to 13.78 | Twin Cities Memorial Bridge crossing of levee. Abutments on levee in good conditions. | **Moderate Hazard** |
| Bridge crossing does not meet Title 23 requirements |
| Encroachment does not impact impede levee O&M. |
| Levee embankment ties into roadway embankment. Embankment and bridge railing prevent access across the bridge. Levee patrol road access is blocked. There is a levee patrol road undercrossing on the waterside but the road is below the 100 year flood stage, has limited clearance, and limited width. |
| The bridge is covered under CVFPB Encroachment Permit No. 2481. Yuba City is working to replace bridge. LD 1 endorsed an encroachment permit application to remove and dispose this existing bridge and construct new bridge. SBFCA will work with Yuba City and CVFPB to obtain a new individual encroachment permit. |
| City of Yuba City Street Light | Station 1007+46  Unit 144  LM 13.78. | Street light located waterside hinge of levee | **Low Hazard** |
| Street light meets Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Street light is maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| 12 kV Overhead Power Line Levee Crossing | Station 1008+45  Unit 144  LM 13.80 | Overhead power lines with poles on levee slope | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than twenty (20) feet from landside toe and 15 feet from waterside levee toes. Cables have a clearance over the levee crown of at least 25 feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain an individual CVFPB encroachment permit once poles relocated or a variance is obtained. |
| City of Yuba City Waterside Access Ramp | Station 1010+60  Unit 144  LM 13.84 | Waterside Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Yuba City and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Landside 12 kV Overhead Power Line | Station 1006+50 to 1013+90  Unit 144  LM 13.76 to LM 13.90 | Power poles (5) running at or within five (5) of levee toe. | **Low Hazard** |
| Facilities do not meet Title 23 requirements |
| Encroachment does not impact levee stability. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| SBFCA will work with PG&E to relocate the powerlines to the west side of Second Street or Sutter Street. The encroachment is not covered by CVFPB Permit and once relocated will not require encroachment permit. |
| Retaining Wall | Station 1010+00  Unit 144  LM 13.83 | Five (5) foot high retaining wall at the landside toe. | **Moderate Hazard** |
| Facilities do not meet Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. Wood Rodger performed the stability analysis. |
| Retaining wall is not currently being maintained. No performance issues have been identified. Wall was identified on USACE PI. |
| This retaining wall does not have a CVFPB Encroachment Permit. SBFCA will work with property owner to remove and dispose retaining wall or obtain new CVFPB encroachment permit. No encroachment permit will be required if wall removed. |
| Retaining Wall | Station 1010+00 to 1011+50  Unit 144  LM 13.83 to 13.85 | Two (2) foot high retaining wall at the landside toe. | **Moderate Hazard** |
| Facilities do not meet Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. Wood Rodger performed the stability analysis. |
| Retaining wall is not currently being maintained. No performance issues have been identified. Wall was identified on USACE PI. |
| This retaining wall does not have a CVFPB Encroachment Permit. SBFCA will work with property owner to remove and dispose retaining wall or obtain new CVFPB encroachment permit. No encroachment permit will be required if wall removed. |
| City of Yuba City Street Light | Station 1019+82  Unit 144  LM 14.01 | Street light located waterside hinge of levee with overhead service from landside toe. | **Low Hazard** |
| Street Light meets Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Street light is maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| SACOG Telephone Call Box | Station 1020+30  Unit 144  LM 14.02 | Emergency telephone call box and solar panel located on waterside hinge. | **Low Hazard** |
| Facilities meet Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Call boxes are maintained by SACOG and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| City of Yuba City Street Light | Station 1021+95  Unit 144  LM 14.05 | Street light located waterside hinge of levee with overhead service from landside toe. | **Low Hazard** |
| Street light meets Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Street light is maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| Levee District No. 1 Retaining Wall | Station 1024+48  Unit 144  LM 14.10 | 40 foot long Retaining wall at the landside toe. | **Low Hazard** |
| Retaining wall meets Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Retaining wall is maintained by Levee District No. 1 and is in operable condition. No performance issues have been identified. |
| The improvements have a CVFPB Permit No. 15133 BD. No modification required at this location |
| 12 kV Overhead Power Line Levee Crossing | Station 1024+95  Unit 144  LM 14+11 | Overhead power lines with poles on levee slope | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain an individual CVFPB encroachment permit. |
| California Department of Transportation Bridge Crossing | Station 1025+32 to 1026+22  Unit 144  LM 14.12 to LM 14.13 | Feather River Bridge crossing of levee.  Abutments on levee in good conditions. | **Low Hazard** |
| Bridge crossing meets Title 23 requirements |
| Encroachment does not impact impede levee O&M. |
| Levee embankment ties into roadway embankment. Roadway embankment is significantly above the levee crown but access to roadway is possible through a pipe gate. Access available during flood fight during routine maintenance there is an undercrossing on waterside slope. |
| The bridge is covered under CVFPB Encroachment Permit No. 16324. No modification to the permit is required. |
| Levee District No. 1 Retaining Wall | Station 1026+60 to 1027+00 Unit 144  LM 14.14 to 14.15 | 40 foot long Retaining wall at the landside toe. | **Low Hazard** |
| Retaining wall meets Title 23 requirements |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Retaining wall is maintained by Levee District No. 1 and is in operable condition. No performance issues have been identified. |
| The improvements have a CVFPB Permit No. 15133 BD. No modification required at this location |
| AT&T Communication Cables | Station 1029+10  Unit 144  LM 14.19 | Underground Communication Cables | **Low Hazard** |
| Line crossing meet Title 23 clearance standards. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Communication cable is maintained by AT&T and is in operable condition. No performance issues with this communication cable crossing have been identified |
| The communication cable has a CVFPB Permit No. 1334 BD and 11851 BD. No modification required at this location. |
| AT&T Communication Cables | Station 1030+10  Unit 144  LM 14.21 | Underground Communication Cables | **Low Hazard** |
| Line crossing meet Title 23 clearance standards. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Communication cable is maintained by AT&T and is in operable condition. No performance issues with this communication cable crossing have been identified |
| The communication cable has a CVFPB Permit No. 1334 BD and 11851 BD. No modification required at this location. |
| City of Yuba City Street Light | Station 1028+11  Unit 144  LM 14.05 | Street light located waterside hinge of levee with overhead service from landside toe. | **Low Hazard** |
| Street light meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Street light is maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| Yuba City Waterside Access Ramp | Station 1031+00  Unit 144  LM 14.22 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Yuba City and is in operable condition. No performance issues with this ramp have been identified. |
| The access ramp is covered under CVFPB Permit No. 18618 BD. No modification required at this location. |
| Yuba City Waterside Access Ramp | Station 1043+75  Unit 144  LM 14.46 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Yuba City and is in operable condition. No performance issues with this ramp have been identified. |
| The access ramp is covered under CVFPB Permit No. 18618 BD. No modification required at this location. |
| City of Yuba City Bollards | Station 1044+00  Unit 144  LM 14.47 | Bollards located on top of levee. | **Low Hazard** |
| Bollards meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Bollards are maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| The bollards are part of CVFPB Permit No. 18618 BD. No modification required at this location. |
| PG&E Natural Gas Pipeline at Landside Toe | Station 1042+50 to 1080+50  Unit 144  LM 14.44 to LM 15.16 | Natural gas pipeline running parallel to landside levee toe from five (5) to ten (10) feet. | **Low Hazard** |
| Gas line does not meet Title 23 clearance requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access |
| Natural gas pipeline is maintained by PG&E and is in an operable condition. No performance issues with this gas line have been identified. |
| SBFCA will work with PG&E to relocate the gas line greater than twenty (20) feet from landside toe or obtain a variance. The encroachment is not covered by CVFPB Permit. SBFCA will work with PG&E to obtain an individual CVFPB encroachment permit with variance or have gas line relocated so the pipeline will not require an encroachment permit. |
| SACOG Telephone Call Box | Station 1054+75  Unit 144  LM 14.67 | Emergency telephone call box and solar panel located on waterside hinge. | **Low Hazard** |
| Telephone box meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Call boxes are maintained by SACOG and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| Yuba City Landside Access Ramp | Station 1054+75  Unit 144  LM 14.67 | Landside Paved Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Yuba City and is in operable condition. No performance issues with this ramp have been identified. |
| The access ramp is covered under CVFPB Permit No. 16618 BD. No modification required at this location. |
| City of Yuba City Street Light | Station 1055+00  Unit 144  LM 14.68 | Street light located near landside hinge adjacent to access ramp. | **Low Hazard** |
| Street light meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Street light is maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| City of Yuba City Street Light | Station 1057+65  Unit 144  LM 14.73 | Street light located near landside toe of levee adjacent to access ramp. | **Low Hazard** |
| Street light meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Street light is maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| Bill Jaeger Shipping Containers | Station 1059+90 to 1072+80  Unit 144  LM 14.77 to LM 15.01 | Old Shipping Containers approximately twelve (12) feet from landside levee toe. | **Low Hazard** |
| Shipping Container’s do not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Shipping Containers are maintained by Bill Jaeger. No performance issues have been identified. |
| The shipping containers do not have a CVFPB Encroachment Permit. SBFCA will work with property owner to remove the shipping containers from LD 1 property and relocate a minimum of thirty (30) feet from landside levee toe. No encroachment permit will be required once removed or relocated. |
| Private Waterside Access Ramp | Station 1080+25  Unit 144  LM 15.16 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Bhatti Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Landside Access Ramp | Station 1080+25  Unit 144  LM 15.16 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Bhatti Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| City of Yuba City Street Light | Station 1091+60  Unit 144  LM 14.05 | Street light located waterside hinge of levee with overhead service from landside toe. | **Low Hazard** |
| Street lights meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Street light is maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| SACOG Telephone Call Box | Station 1093+12  Unit 144  LM 15.40 | Emergency telephone call box and solar panel located on landside hinge. | **Low Hazard** |
| Telephone call box meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Call boxes are maintained by SACOG and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| City of Yuba City Street Light | Station 1094+10  Unit 144  LM 15.42 | Street light located waterside hinge of levee with overhead service from landside toe. | **Low Hazard** |
| Street light meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Street light is maintained by City of Yuba City and are in operable condition. No performance issues have been identified. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with CVFPB to obtain an individual encroachment permit. |
| City of Yuba City Bike Path Access Ramp, fencing, and associated improvements | Station 1095+00 to 1097+50  Unit 144  LM 1  15.43 to LM 15.48 | Bike Path Access Ramp, Retaining, Bike path access ramp, chain link fencing, and associated improvements on landside levee slope | **Low Hazard** |
| Facilities do not meet Title 23 requirements. |
| Adequate width exists for inspection, maintenance, and potential flood fight. |
| Levee integrity is not impacted by the current location of the improvements |
| The improvements have a CVFPB Permit No. 16820 BD. No modification required at this location once fencing is relocated. Ramp also used by LD 1 for levee access. SBFCA removed the LD 1 access to the levee crown as part of the slurry wall construction. |
| 12 kV Overhead Power Line Levee Crossing | Station 1096+74  Unit 144  LM 15.47 | PG&E 12 kV Overhead powerline crossing poles | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The improvements have a CVFPB Permit No. 6067 BD. No modification to permit required for this encroachment. |
| 12 kV Overhead Power Line Levee Crossing | Station 1107+82  Unit 144  LM 15.68 | PG&E 12 kV Overhead powerline crossing poles | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit. |
| Private Waterside Access Ramp | Station 1127+48  Unit 144  LM 16.05 | Waterside Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Bhatti Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The improvements have a CVFPB Permit No. 1127+40 BD. No modification to permit required for this encroachment. |
| 12 kV and 40/60 kV Overhead Power Line Levee Crossing | Station 1139+22  Unit 148  LM 0.13 | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit. |
| Twin 110 kV Overhead Power Line Levee Crossing | Station 1152+55  Unit 148  LM 0.38 | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The improvements have a CVFPB Permit No. 6067 BD. No modification to permit required for this encroachment. |
| Private Landside Access Ramp | Station 1162+00  Unit 148  LM 0.56 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by River Bend Orchards and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 1170+05  Unit 148  LM 0.71 | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit. |
| Landside 12 kV Overhead Power Line | Station 1170+50 to 1201+25  Unit 148  LM 0.72 to LM 1.30 | Power poles (4) running at or within twenty (20) feet of landside levee toe. | **Low Hazard** |
| Encroachment does not impact levee stability. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| SBFCA will work with PG&E to relocate the powerlines to west of the acquisition line. This will be over twenty (20) feet from levee toe. The encroachment is not covered by a CVFPB Permit and once relocated will not require encroachment permit. |
| Private Landside Access Ramp | Station 1180+00  Unit 148  LM 0.90 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by River Bend Orchards and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 1195+20  Unit 148  LM 1.19 | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Permit No. 11960 BD. No modification to permit required for this encroachment. |
| Private Landside Access Ramp | Station 1221+00  Unit 148  LM 1.67 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Kewal Singh Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1221+00  Unit 148  LM 1.67 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Kewal Singh Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 1226+06  Unit 148  LM 1.77 | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit. |
| Private Landside Access Ramp | Station 1259+10  Unit 148  LM 2.40 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Richland Enterprises and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1259+10  Unit 148  LM 2.40 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Richland Enterprises and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 1266+71  Unit 148  LM 2.54 | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit. |
| Concrete Line Ditch | Station 1284+91 to 1293+66  Unit 148  LM 2.88 to LM 3.05 | Concrete lined ditch constructed by USACE | **Low Hazard** |
| Concrete line ditches meets Title 23 requirements since part of flood control project. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Concrete lined ditch maintained by Levee District No. 9 and is in operable condition. No performance issues with this encroachment have been identified |
| Concrete lined ditch does not have CVFPB Encroachment Permit. The concrete lined ditch are considered part of the flood control system so no encroachment shall be obtained. The facility will become part of the Supplemental O&M Manual for Unit 148. |
| Private Landside Access Ramp | Station 1293+00  Unit 148  LM 2.40 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Filter Family Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Levee District No. 9 River Elevation Staff Gage | Station 1293+80  Unit 148  LM 3.05 | Staff gage located on utility pole near waterside toe. | **Low Hazard** |
| Staff gage meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Staff gage maintained by Levee District No. 9 and is in operable condition. No performance issues with this encroachment have been identified |
| Concrete lined ditch does not have CVFPB Encroachment Permit. The concrete lined ditch are considered part of the flood control system so no encroachment shall be obtained. The facility will become part of the Supplemental O&M Manual for Unit 148. |
| Private Waterside Access Ramp | Station 1294+25  Unit 148  LM 3.06 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Filter Family Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1307+25  Unit 148  LM 3.32 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Filter Family Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Landside Access Ramp | Station 1326+75  Unit 148  LM 3.68 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by River Bottom Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1326+75  Unit 148  LM 3.68 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by River Bottom Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 1327+00  Unit 148  LM 3.68 | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Permit No. 11593 BD. No modification to permit required for this encroachment. |
| Private Landside Access Ramp | Station 1340+00  Unit 148  LM 3.93 | Landside Access Ramp | **Low Hazard** |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Micheli Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1340+00  Unit 148  LM 3.93 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Micheli Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1347+30  Unit 148  LM 4.07 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Filter Family Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 1347+37  Unit 148  LM 4.07 | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Permit No. 6515 BD. No modification to permit required for this encroachment. |
| 12 kV Overhead Power Line Levee Crossing | Station 1391+96  Unit 148  LM 4.91 | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Permit No. 8533 BD. No modification to permit required for this encroachment. |
| Private Waterside Access Ramp | Station 1398+30  Unit 148  LM 5.04 | Waterside Access Ramp | **Low Hazard** |
| Not able to determine if access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Melbay Farms and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1399+10  Unit 148  LM 5.05 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Nichols Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 1399+27  Unit 148  LM 5.05 | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Permit No. 7439 BD. No modification to permit required for this encroachment. |
| Sutter Extension Water District – Sutter Butte Main Canal | Station 1428+50 to 1449+00  Unit 148  LM 5.60 to LM 5.99 | Sutter Butte Main Canal is a high lined earth irrigation canal. | **Moderate Hazard** |
| The levee adjacent to the Sutter Butte Main canal does not meet Title 23 requirements. |
| Sutter Butte Main is operated and maintained by Sutter Extension Water District and is in operable condition. No performance issues other than typical erosion and bank sloughing have been identified |
| AECOM has performed geotechnical analysis of the channel bank and levee slope. No stability issues were noted. |
| This Sutter Butte Main Canal does not have a CVFPB Encroachment Permit. The Canal was constructed prior to the levee construction. SBFCA has been working with DWR to obtain an operating agreement with Sutter Extension Water District. |
| Sutter Extension Water District Landside Access Ramp | Station 1429+25  Unit 148  LM 5.62 | Landside Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by SEWD and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Sutter Extension Water District Waterside Access Ramp | Station 1429+25  Unit 148  LM 5.62 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by SEWD and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 1429+68  Unit 148  LM 5.63 | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit once poles relocated or variance obtained. |
| 60 kV Overhead Power Line Levee Crossing | Station 1429+98  Unit 148  LM 5.63 | PG&E 60 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit once poles are relocated or variance obtain. |
| Sutter Extension Water District Waterside Access Ramp | Station 1433+75  Unit 148  LM 5.70 | Waterside Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by SEWD and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1438+90  Unit 148  LM 5.80 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Smith Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Pole Guy water at landside levee toe | Station 1439+90  Unit 148  LM 5.82 | PG&E guy wire and anchor located in landside slope of levee. | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| The guy wire and anchor is maintained by PG&E and is in operable condition. No performance issues with this guy wire and anchor have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to remove encroachment. No CVFPB encroachment permit will be required once guy wire relocated. |
| Private Waterside Access Ramp | Station 1441+00  Unit 148  LM 5.84 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Reeves Family Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Butte Water District Landside Access Ramp | Station 1448+50 Unit 148  LM 5.98 | Landside Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Butte Water District and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1459+40  Unit 148  LM 6.19 | Waterside Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Ghag Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Fencing and associated improvements | Station 1462+50  Unit 148  LM 0.05 (MA16) | Chain link fencing and associated improvements within 7 feet of landside levee toe | **Low Hazard** |
| Facilities do not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 30 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 17129 BD once adequate clearance is established for inspection, maintenance, and flood fight. |
| Private Landside Access Ramp | Station 1465+50  Unit 148  LM 0.10  (MA16) | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by McCool Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1465+50  Unit 148  LM 0.10  (MA16) | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by McCool Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment is covered under CVFPB Encroachment Permit No. 4741 BD. No modification to encroachment permit required. |
| Gushi Residence Septic Tank, Water Well, Structures, Fencing, and associated improvements | Station 1470+15  Unit 148  LM 0.19 (MA16) | Septic tank, leach field, water well, walkway, fencing and associated improvements on slope to within 10 feet of levee toe | **Moderate Hazard** |
| Facilities do not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 30 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 17168 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Private Waterside Access Ramp | Station 1481+75  Unit 148  LM 0.41  (MA16) | Waterside Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Wayne Sue and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
|  |  |  |  |
| Wayne Sue Residence Structures, Water Well, Structures, Fencing, and associated improvements | Station 1485+00  Unit 148  LM 0.46 (MA16) | Two Structures, water well, fencing and associated improvements on slope to within 10 feet of levee toe | **Moderate Hazard** |
| Facilities do not meet Title 23 requirements. |
| Adequate width does not exist for inspection, maintenance, and potential flood fight. |
| SBFCA will work with property owner to relocate the improvements to more than 30 feet from levee toe |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 17168 BD once adequate clearance is established for inspection, maintenance, and flood fight or an operation and maintenance (O&M) agreement shall be completed and entered into with CVFPB outlining O&M and flood flight activities including access onto the property for inspections. |
| Private Waterside Access Ramp and Fencing | Station 1474+50  Unit 148  LM 0.27  (MA16) | Waterside Access Ramp and fencing at waterside toe. | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Paul Lea Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Levee Patrol Road Gate | Station 1493+88 Unit 148  LM 0.64 (MA16) | Private Pipe gate and fencing down slope of levee. | **Moderate Hazard** |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Line crossing does meet Title 23 clearance standards |
| Gate is required to be maintained by Paul Lea Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| SBFCA will work with Property Owner and CVFPB to amend encroachment permit no. 17139 BD. |
| Private Waterside Access Ramp | Station 1499+50  Unit 148  LM 0.75  (MA16) | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Kauluwai Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 1520+20  Unit 148  LM 1.14  (MA16) | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit. |
| County of Sutter Landside Access Ramp | Station 1535+64  Unit 148  LM 1.43  (MA16) | Landside Paved Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by County of Sutter and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| County of Sutter Waterside Access Ramp | Station 1535+64  Unit 148  LM 1.43  (MA16) | Waterside Paved Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by County of Sutter and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 1535+95  Unit 148  LM 1.44 (MA16) | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Permit No. 7335 BD. No modification to permit required for this encroachment. |
| 12 kV Overhead Power Line Levee Crossing | Station 1556+58  Unit 148  LM 1.83 (MA16) | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Permit No. 7336 BD. No modification to permit required for this encroachment. |
| Private Waterside Access Ramp | Station 1556+60  Unit 148  LM 1.83  (MA16) | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by James Filter Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Landside Access Ramp | Station 1560+25  Unit 148  LM 1.93  (MA16) | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Berry Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1569+80  Unit 148  LM 2.08  (MA16) | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Berry Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1594+60  Unit 148  LM 2.55  (MA16) | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Pamma Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Landside Access Ramp | Station 1594+60  Unit 148  LM 2.55  (MA16 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Pamma Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Private Waterside Access Ramp | Station 1600+35  Unit 148  LM 2.66  (MA16) | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Bill Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Butte Water District Landside Access Ramp | Station 1610+50  Unit 148  LM 2.85  (MA16) | Landside Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Butte Water District and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Butte Water District – Sutter Butte Main Canal | Station 1610+50 to 1623+50  Unit 148  LM 2.85 to LM 3.10 (MA16) | Sutter Butte Main Canal is a high lined earth irrigation canal. | **Moderate Hazard** |
| The levee adjacent to the Sutter Butte Main canal does not meet Title 23 requirements. |
| Sutter Butte Main is operated and maintained by Butte Water District and is in operable condition. No performance issues other than typical erosion and bank sloughing have been identified |
| AECOM has performed geotechnical analysis of the channel bank and levee slope. No stability issues were noted. |
| This Sutter Butte Main Canal does not have a CVFPB Encroachment Permit. The Canal was constructed prior to the levee construction. SBFCA has been working with CVFPB to obtain an operating agreement with Sutter Extension Water District. |
| 12 kV Overhead Power Line Levee Crossing | Station 1611+30  Unit 148  LM 2.87 (MA16) | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit. |
| Private Waterside Access Ramp | Station 1611+60  Unit 148  LM 2.87  (MA16) | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Rancho Santa Maria and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |
| Butte Water District Landside Access Ramp | Station 1622+50  Unit 148  LM 3.10  (MA16) | Landside Access Ramp | **Low Hazard** |
| Access ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Butte Water District and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in May 2016. |

| Table 3.12A‑3 Project Area D – Encroachments (Campbell Road to Afterbay) | | | | |
| --- | --- | --- | --- | --- |
| Feature | Approximate Location | Description | Hazard Rating and Comments |
| Private Waterside Access Ramp | Station 1632+50  Unit 148  LM 3.27  (MA16) | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by MMD Ranches and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| 12 kV Overhead Power Line Pole and Guys Wires | Station 1635+35  Unit 148  LM 3.32 (MA16) | PG&E 12 kV Overhead power pole with guy wires located at waterside toe. powerline crossing | **Low Hazard** |
| Pole location Line crossing does not meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more fifteen (15) feet from waterside levee toe. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA is working with PG&E to remove the power pole in 2016. No CVFPB encroachment permit will be required once removed. |
| Private Waterside Access Ramp | Station 1637+50  Unit 148  LM 3.36  (MA16) | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by MMD Ranches and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016 |
| 12 kV Overhead Power Line Levee Crossing | Station 1638+72  Unit 148  LM 3.38 (MA16) | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does not meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA is working with PG&E to remove the power pole crossing in 2016. No CVFPB encroachment permit will be required once removed. |
| Private Waterside Access Ramp | Station 1651+75  Unit 148  LM 3.63  (MA16) | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Melby Farms and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016 |
| 12 kV Overhead Power Line Levee Crossing | Station 1651+85  Unit 148  LM 3.63 (MA16) | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does not meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit. |
| 12 kV Overhead Power Line Levee Crossing | Station 1653+15  Unit 148  LM 3.66 (MA16) | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does not meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit. |
| Private Landside Access Ramp | Station 1653+50  Unit 148  LM 3.63  (MA16) | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Melby Farms and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station 1665+32  Unit 148  LM 3.89 (MA16) | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does not meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit. |
| 12 kV Overhead Power Line | Station 1665+32 to 1674+50  Unit 148  LM 3.89 to LM 4.06 (MA16) | PG&E 12 kV Overhead powerline running parallel landside toe | **Low Hazard** |
| Line crossing does not meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to relocate poles as required or SBFCA will work with PG&E to obtain a CVFPB encroachment permit and variance. |
| 12 kV Overhead Power Line Levee Crossing | Station 1675+90  Unit 152  LM 0.01 (MA7) | PG&E 12 kV Overhead powerline crossing | **Low Hazard** |
| Line crossing does not meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit once pole relocated or variance obtained. |
| Private Landside Access Ramp | Station 1782+25  Unit 152  LM 2.02  (MA7) | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Waller Family Farms and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016 |
| Private Waterside Access Ramp | Station 1782+25  Unit 152  LM 2.02  (MA7) | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Waller Family Farms and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016 |
| Private Waterside Access Ramp | Station 1788+25  Unit 152  LM 2.14 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Waller Family Farms and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016 |
| Private Waterside Access Ramp | Station 1793+60  Unit 152  LM 2.24 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Waller Family Farms and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016 |
| Private Waterside Access Ramp | Station 1806+70  Unit 152  LM 2.48 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Peekema Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Landside Access Ramp | Station 1806+70  Unit 152  LM 2.48 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Peekema Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Waterside Access Ramp | Station 1816+30  Unit 152  LM 2.67 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Peekema Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Waterside Access Ramp | Station 1819+75  Unit 152  LM 2.73 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by City of Gridley and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Landside Access Ramp | Station 1829+75  Unit 152  LM 2.92 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Farmland Reserve and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Waterside Access Ramp | Station 1836+25  Unit 152  LM 3.04 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Farmland Reserve and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Landside Access Ramp | Station 1837+30  Unit 152  LM 3.06 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Farmland Reserve and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Waterside Access Ramp | Station 1847+50  Unit 152  LM 3.26 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Farmland Reserve and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Waterside Access Ramp | Station 1854+00  Unit 152  LM 3.38 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Farmland Reserve and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Landside Access Ramp | Station 1854+00  Unit 152  LM 3.38 | Landside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Farmland Reserve and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Waterside Access Ramp | Station 1886+00  Unit 152  LM 3.99 | Waterside Access Ramp | **Low Hazard** |
| Access ramp does not meet Title 23 requirements. |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Mathews Contracting and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Waterside Access Ramp | Station 1893+40  Unit 152  LM 4.13 | Waterside Access Ramp | **Low Hazard** |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Housing Authority and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Landside Access Ramp | Station 1894+50  Unit 152  LM 4.15 | Landside Access Ramp | **Low Hazard** |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Housing Authority and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| County of Butte Bridge Crossing | Station 1900+82  Unit 152  LM 4.27 | Oroville-Gridley Highway Bridge crossing of levee.  Abutments on levee in good conditions | **Low Hazard** |
| Bridge meets Title 23 § 128 requirements |
| Encroachment does not impact impede levee O&M. |
| Levee embankment ties into roadway embankment. Roadway embankment is above the levee crown but access to roadway is possible through a pipe gate. Access available during flood fight. |
| The bridge is covered under CVFPB Encroachment Permit No. 4123 BD. No modification to the permit is required. |
| Butte Water District – Sutter Butte Main Canal | Station 1902+50 to 1958+00  Unit 152  LM 4.30 to LM 5.35 | Sutter Butte Main Canal is a high lined earth irrigation canal | **Moderate Hazard** |
| The levee adjacent to the Sutter Butte Main canal does not meet Title 23 requirements. |
| Sutter Butte Main is operated and maintained by Butte Water District and is in operable condition. No performance issues other than typical erosion and bank sloughing have been identified |
| AECOM has performed geotechnical analysis of the channel bank and levee slope. No stability issues were noted. |
| This Sutter Butte Main Canal does not have a CVFPB Encroachment Permit. The Canal was constructed prior to the levee construction. SBFCA has been working with CVFPB to obtain an operating agreement with Sutter Extension Water District. |
| Private Landside Access Ramp | Station 1903+20  Unit 152  LM 4.31 | Landside Access Ramp | **Low Hazard** |
| Ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Butte Water District and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016 |
| 12 kV Overhead Power Line Levee Crossing | Station  1906+58  Unit 152  LM 4.38 | PG&E 12 kV Overhead Powerline Crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Encroachment Permit No. 5857 BD. No modification to the permit is required once pole relocated. |
| Private Landside Access Ramp | Station 1903+20  Unit 152  LM 4.31 | Landside Access Ramp | **Low Hazard** |
| Ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Butte Water District and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016 |
| Private Landside Access Ramp | Station 1941+75  Unit 152  LM 5.04 | Landside Access Ramp | **Low Hazard** |
| Ramp meets Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Cilker and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| 12 kV Overhead Power Line Levee Crossing | Station  1947+34  Unit 152  LM 5.15 | Butte Water District 12 kV Overhead Power Line Crossing | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by Butte Water District and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with Butte Water District to obtain a CVFPB encroachment permit. |
| 12 kV Overhead Power Line Levee Crossing | Station  1957+30  Unit 152  LM 5.34 | PG&E 12 kV Overhead Powerline Crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Encroachment Permit No. 9053 BD. No modification to the permit is required once pole relocated. |
| Steel Tank | Station  2020+81  Unit 152  LM 6.54 | Steel Tank at landside toe of levee. | **Moderate Hazard** |
| Structure does not meet Title 23 clearance standards. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| SBFCA is scheduled to remove and dispose steel tank. |
| This utility does not have a CVFPB Encroachment Permit. Once the tank is removed, no encroachment permit will be required. |
| Spur Levee | Station  2021+50  Unit 152  LM 6.55 | Spur Levee on waterside of levee toe. | **Low Hazard** |
| Spur levee meets Title 23 clearance standards. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Spur levee is maintained by Mariani and is in operable condition. No performance issues with this spur levee have been identified. |
| This spur levee is covered under CVFPB Encroachment Permit No. 9626. No encroachment permit modification shall be required. |
| 115 kV Overhead Power Line Levee Crossing | Station  2037+15  Unit 152  LM 5.34 | PG&E 115 kV Overhead Powerline Crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Encroachment Permit No. 12901 BD. No modification to the permit is required once pole relocated. |
| 12 kV Overhead Power Line Levee Crossing | Station  2092+37  Unit 152  LM 7.90 | PG&E 12 kV Overhead Powerline Crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit. |
| 12 kV Overhead Power Line Levee Crossing | Station  2138+22  Unit 152  LM 8.76 | PG&E 12 kV Overhead Powerline Crossing | **Low Hazard** |
| Line crossing does meet Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Encroachment Permit No. 5865 BD. Once SBFCA removes power line, the encroachment permit can be cancelled. SBFCA will work with PG&E to cancel/closeout CVFPB encroachment permit. |
| Telephone and 12 kV Overhead Power Line Levee Crossing | Station  2178+48  Unit 152  LM 9.53 | AT&T Telephone and PG&E 12 kV Overhead Utility Crossing | **Low Hazard** |
| Utility crossing meets Title 23 clearance standards. |
| Communication line are maintained by AT&T. Utility poles and Power lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Utility poles are located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Encroachment Permit No. 12663 BD for the communication cables. There is no record of PG&E. SBFCA will work with PG&E to obtain a CVFPB encroachment permit or amend the AT&T permit. |
| Telephone and 12 kV Overhead Power at Landside Levee Toe | Station 2178+39 to 2185+50  Unit 152  LM 9.53 to LM 9.66 | Utility poles (3) running at or within five (5) of levee toe. | **Low Hazard** |
| Encroachment does not impact levee stability. |
| Utility poles and line are maintained by AT&T. Power lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| SBFCA is working with PG&E and AT&T to relocate the utility poles a minimum of twenty (20) feet landside of the levee toe. The work is schedule for 2016. |
| The utility is covered under CVFPB Encroachment Permit No. 9076 BD for the communication cables. There is no record of PG&E. Once utility poles relocated thirty (30) feet landside of levee toe, no encroachment permit will be required for the utility. |
| 12 kV Overhead Power Line Levee Crossing | Station  2216+71  Unit 152  LM 10.25 | PG&E 12 kV Overhead Powerline Crossing | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. SBFCA has scheduled the pole line to be removed and disposed. |
| The utility is covered under CVFPB Encroachment Permit No. 6221 BD. Once SBFCA removes power line, the encroachment permit can be cancelled. SBFCA will work with PG&E to cancel/closeout CVFPB encroachment permit. |
| Private Landside Access Ramp | Station 2248+90  Unit 152  LM 10.86 | Landside Access Ramp | **Low Hazard** |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Williams Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Waterside Access Ramp | Station 2248+90  Unit 152  LM 10.86 | Waterside Access Ramp | **Low Hazard** |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Williams Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| 12 kV Overhead Power Line and Communication Line Levee Crossing | Station  2249+05  Unit 152  LM 10.86 | PG&E 12 kV Overhead Powerline Crossing and AT&T Communication Line Levee Crossing | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. AT&T maintains the communication line. No performance issues with this power and communication line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| The utility is covered under CVFPB Encroachment Permit No. 6221 BD. SBFCA will work PG&E and AT&T to amend the encroachment permit to include the communication line crossing which is not covered in the permit. No modification to the permit is required once poles relocated. |
| Private Paved Landside Access Ramp | Station 2262+20  Unit 152  LM 11.11 | Landside Paved Access Ramp | **Low Hazard** |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Williams Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Paved Waterside Access Ramp | Station 2262+20  Unit 152  LM 11.11 | Waterside Paved Access Ramp | **Low Hazard** |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Williams Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| 12 kV Overhead Power at Landside Levee Toe | Station 2260+75 to 2268+40  Unit 152  LM 11.08 to LM 11.23  (HB) | Utility poles (3) running at or within twenty (20) feet of levee toe. | **Low Hazard** |
| Encroachment does not impact levee stability. |
| Utility poles and power lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| SBFCA will work with PG&E to relocate the utility poles thirty (30) landside of the levee toe. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to relocated utility poles and lines. Once utility poles relocated thirty (30) feet landside of levee toe, no encroachment permit will be required for the utility. |
| Shop Structure | Station  2282+05 to 2282+75  Unit 152  LM 11.49 to LM 11.50 | Shop Structure within and adjacent to waterside levee slope. Not in theoretical levee prism. | **Moderate Hazard** |
| Structure does not meet Title 23 clearance standards. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| SBFCA is performed an analysis to determine the structure is not a high hazard and does not impact levee stability. SBFCA placed rip rap on waterside levee slope to address potential erosion related to the location of the structure. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with landowner to obtain a CVFPB encroachment permit for structure or to have the structure removed. |
| 12 kV Overhead Power Line Levee Crossing | Station  2285+50  Unit 152  LM 11.50 | PG&E 12 kV Overhead Powerline Crossing | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified. |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to obtain a CVFPB encroachment permit once poles relocated as required. |
| Private Landside Access Ramp | Station 2285+50  Unit 152  LM 11.55 | Landside Access Ramp | **Low Hazard** |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Fredericks Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| Private Waterside Access Ramp | Station 2285+50  Unit 152  LM 11.55 | Waterside Access Ramp | **Low Hazard** |
| Ramp does not meet Title 23 requirements. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| Access ramp is required to be maintained by Fredericks Ranch and is in operable condition. No performance issues with this ramp have been identified. |
| The encroachment does not have a CVFPB Encroachment Permit. SBFCA has been working with CVFPB to obtain an individual CVFPB encroachment permit. The application will be submitted in June 2016. |
| 12 kV Overhead Power at Landside Levee Toe | Station 2284+00 to 2290+00  Unit 152  LM 11.52 to LM 11.64 | Utility poles (3) running at or within fifteen (15) feet of levee toe. | **Low Hazard** |
| Encroachment does not impact levee stability. |
| Utility poles and power lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified. |
| SBFCA will work with PG&E to relocate the utility poles thirty (30) landside of the levee toe. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to relocated utility poles and lines. Once utility poles relocated thirty (30) feet landside of levee toe, no encroachment permit will be required for the utility. |
| Metal Building and Water Well | Station  2331+45  Unit 152  LM 0.54  (HB) | Metal Building and Water Well within twenty-five (25) feet of levee toe | **Low Hazard** |
| Building meets Title 23 clearance standards. |
| Encroachment does not impact levee stability, levee O&M, or flood fighting access. |
| SBFCA is scheduled to remove and dispose of the metal building and water well during the 2016 construction season. The improvement is within the limits of the proposed stability berm. |
| This utility does not have a CVFPB Encroachment Permit. Once the improvements are removed no permit will be required. |
| 12 kV Overhead Power at Landside Levee Toe | Station 2331+60 to 2352+00  Unit 152  LM 0.54 to LM 0.93  (HB) | Utility poles (8) running at or within fifteen (15) feet of levee toe. | **Low Hazard** |
| Encroachment does not impact levee stability. |
| Utility poles and power lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| SBFCA will work with PG&E to relocate the utility poles thirty (30) landside of the levee toe or remove poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to relocated utility poles and lines. Once utility poles relocated thirty (30) feet landside of levee toe or removed, no encroachment permit will be required for the utility. |
| 12 kV Overhead Power Line Levee Crossing | Station  2345+75  Unit 152  LM 0.81  (HB) | PG&E 12 kV Overhead Powerline Crossing | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. SBFCA is working to remove pole crossing. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to remove utility poles and lines. Once utility poles relocated thirty (30) feet landside of levee toe or removed, no encroachment permit will be required for the utility. |
| 12 kV Overhead Power Line Levee Crossing | Station  2353+10  Unit 152  LM 0.95  (HB) | PG&E 12 kV Overhead Powerline Crossing | **Low Hazard** |
| Line crossing meets Title 23 clearance standards. |
| Power poles and lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than thirty (30) feet from landside toe and fifteen (15) feet from waterside levee toes. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. SBFCA is working with PG&E to remove pole line. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to remove utility poles and lines. Once utility poles removed, no encroachment permit will be required for the utility. |
| DWR – Old Sutter Butte Main Canal Headgates | Station 2359+05 to 2359+58  Unit 152  LM 1.06 to LM 1.07  (HB) | Old Sutter Butte Main Canal Headgates. | **Moderate Hazard** |
| The head gates does not meet Title 23 requirements. |
| Sutter Butte Main Headgates are maintained by DWR and are not in an operable condition. No performance issues have been identified. The operation and maintenance is covered in Supplement O&M Manual Unit 160. |
| AECOM has performed geotechnical analysis of the headgates and determined that it can be abandoned in-place. HDR has prepared improvement plans addressing this work. The work shall be completed during construction year 2016. No stability issues were noted. |
| This Sutter Butte Main Headgate does not have a CVFPB Encroachment Permit. The Headgate has a separate supplemental operation and maintenance manual. SBFCA will work with USACE to modify the Unit 160 O&M Manual. |
| 12 kV Overhead Power at Waterside Levee Toe and Hinge | Station 2360+05 to 2368+00  Unit 152  LM 1.08 to LM 1.23  (HB) | Utility poles (4) running on or within fifteen (15) feet of levee toe. | **Low Hazard** |
| Encroachment does not impact levee stability. |
| Utility poles and power lines are maintained by PG&E and are in operable condition. No performance issues with this power line crossing have been identified |
| Power poles are not located more than fifteen (15) feet from waterside levee toe. Cables have a clearance over the levee crown of at least twenty five (25) feet in accordance with CVFPB requirements. Poles and cables do not present adverse impacts for levee operation and maintenance as long as the poles remain standing with the lines properly attached to the poles. |
| This utility does not have a CVFPB Encroachment Permit. SBFCA will work with PG&E to relocated utility poles and lines. Once utility poles relocated thirty (30) feet landside of levee toe, no encroachment permit will be required for the utility. |
| Water Well | Station 2361+10  Unit 152  LM 1.10  (HB) | Water well located at landside toe | **Moderate Hazard** |
| Water well does not meet Title 23 requirements. |
| Encroachment does not impact levee stability. |
| SBFCA is scheduled to abandon water well during 2016 construction season. |
| SBFCA will work with owner to abandon the water well. The water well does not have a CVFPB Encroachment Permit. Once utility poles relocated thirty (30) feet landside of levee toe, no encroachment permit will be required for the utility. |