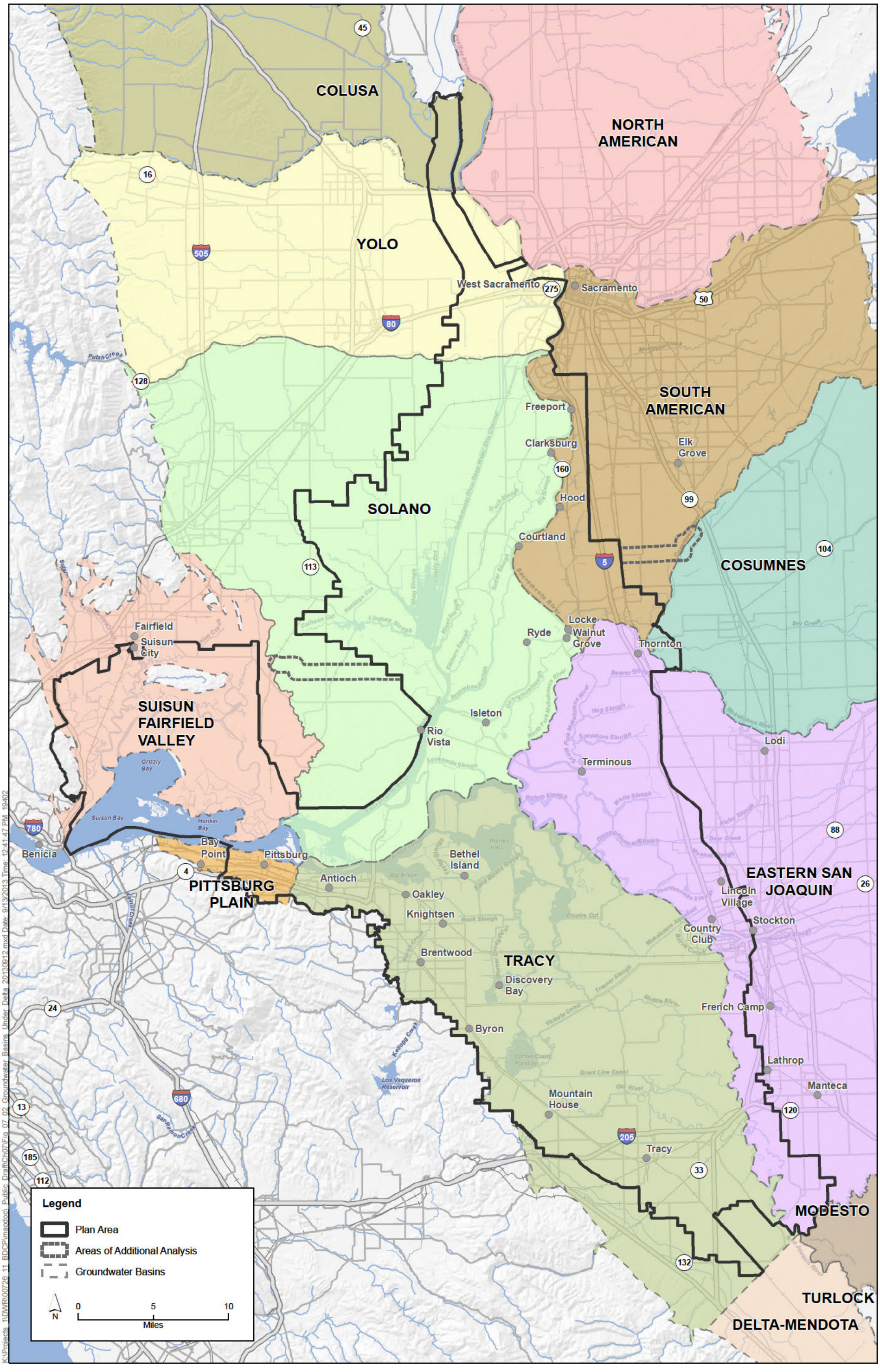
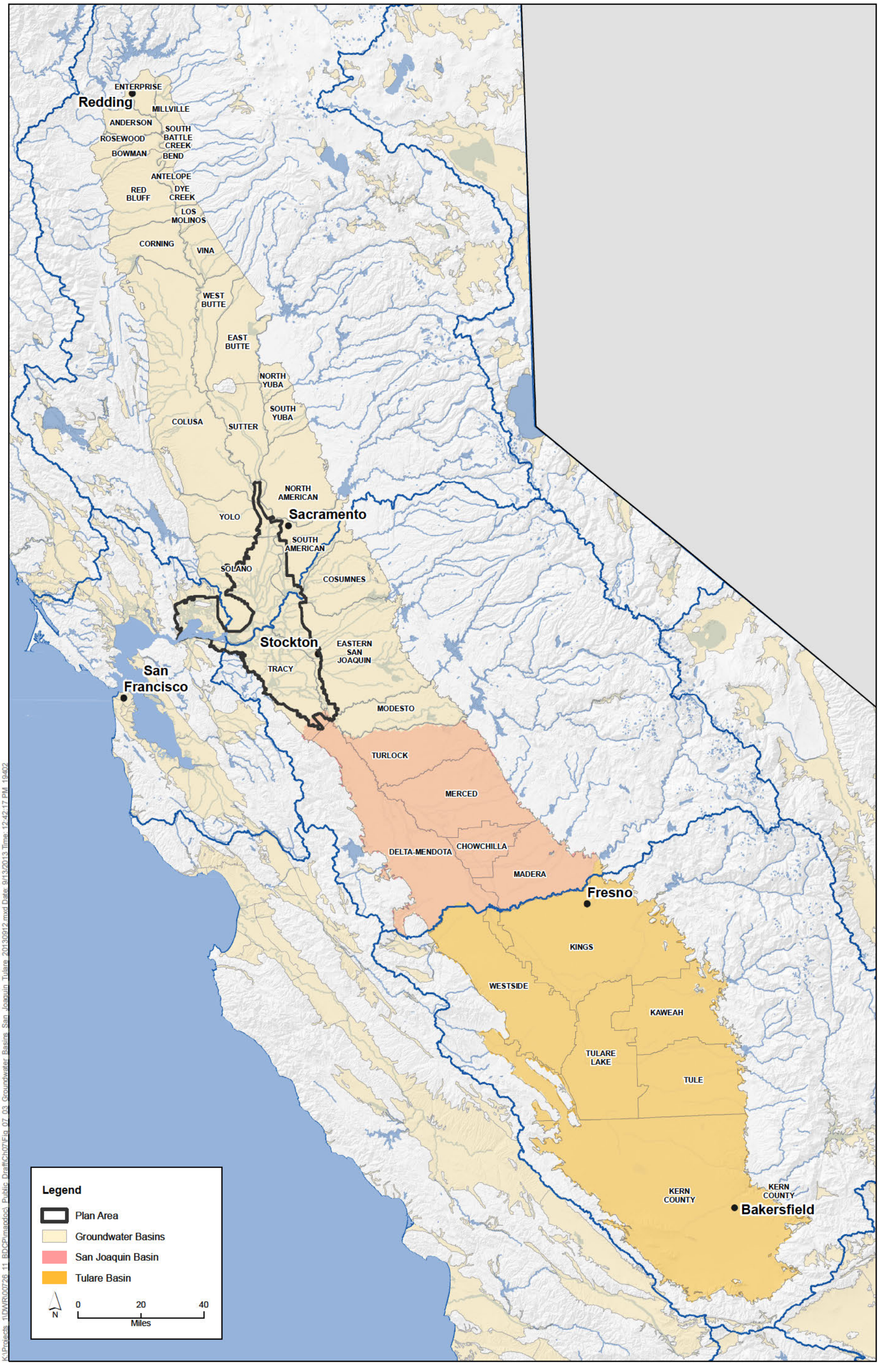
Sources: Plan Area, ICF 2012; Basins, DWR 2010

Figure 7-1
California Groundwater Basins



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

Figure 7-2
Groundwater Subbasins Underlying the Delta



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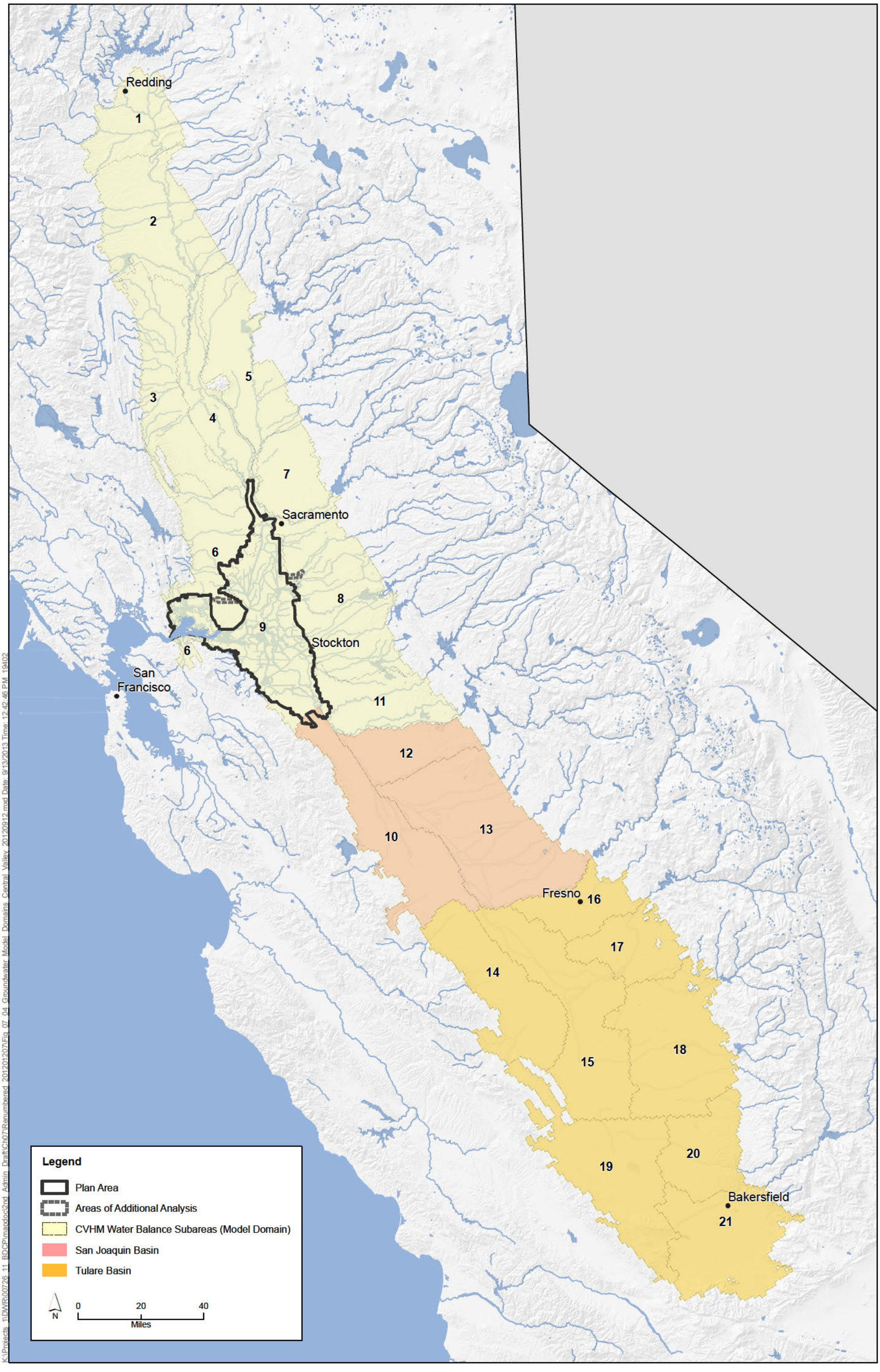
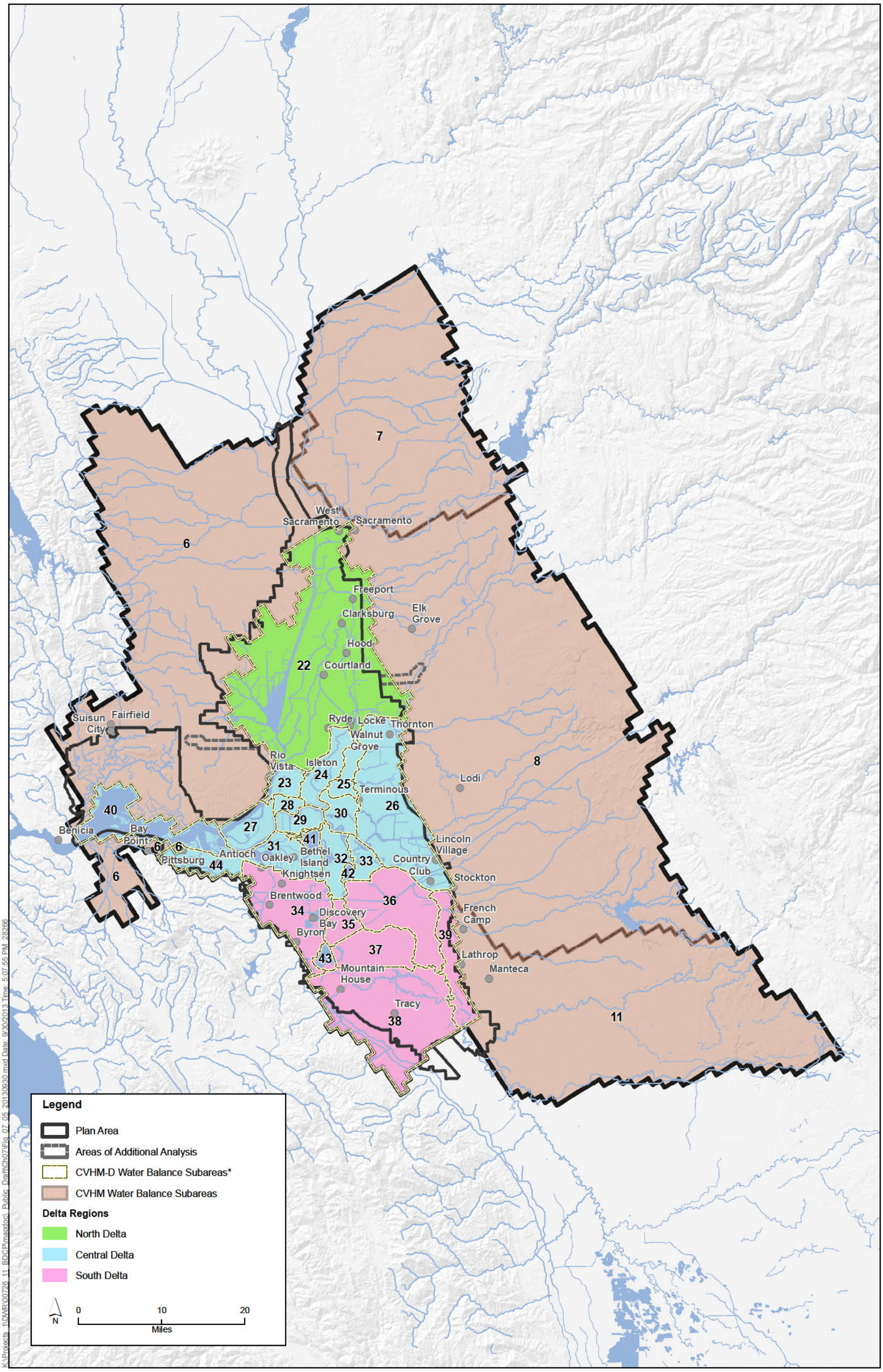
Sources: Plan Area, ICF 2012;
Basins, DWR 2010.

Figure 7-3
Groundwater Subbasins Underlying the Central Valley



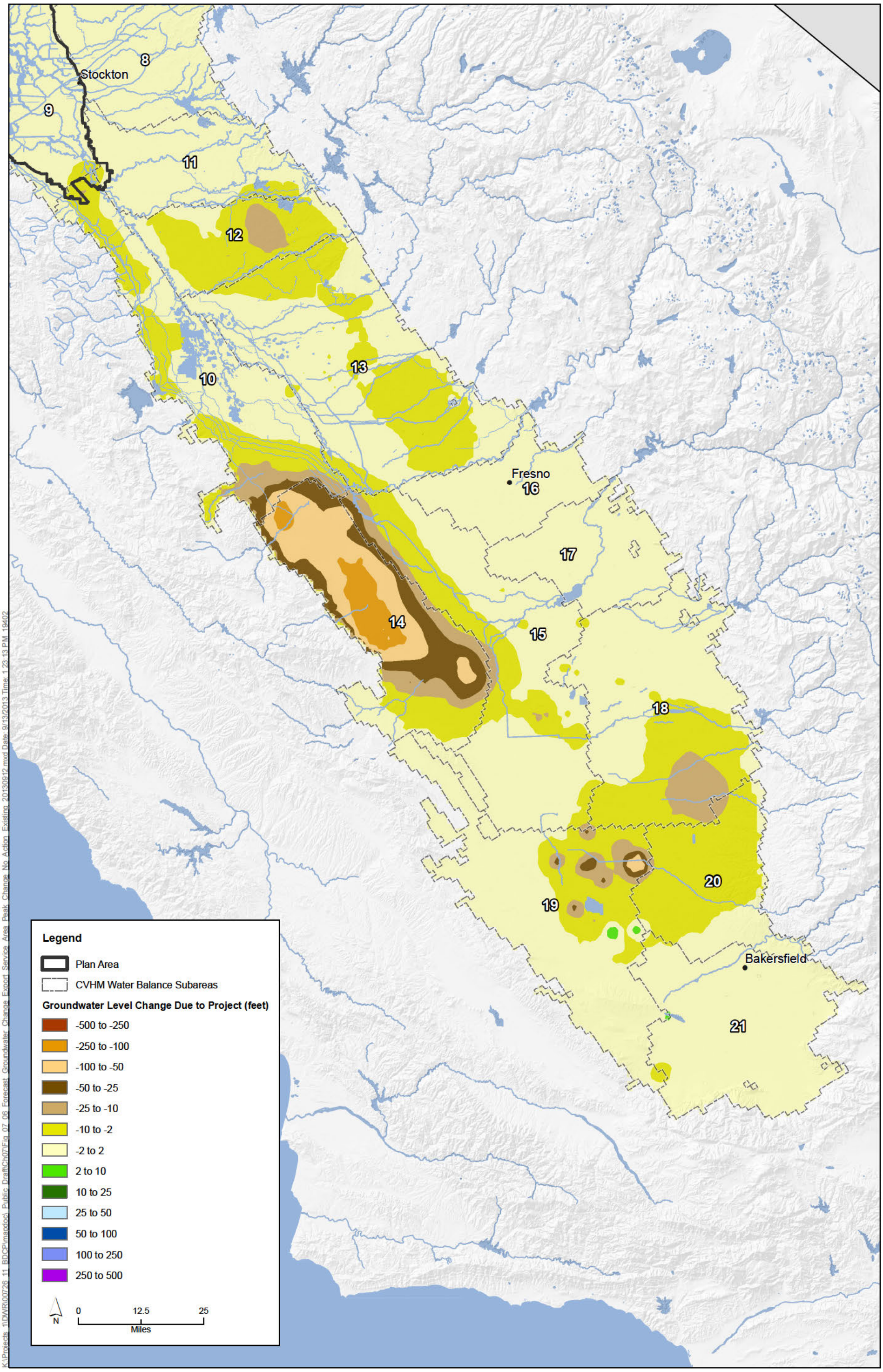
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Model CVHM, USGS 2010.
Note: CVHM grid cells are uniformly spaced on 1-mile centers

Figure 7-4
Groundwater Model Domains in the Central Valley



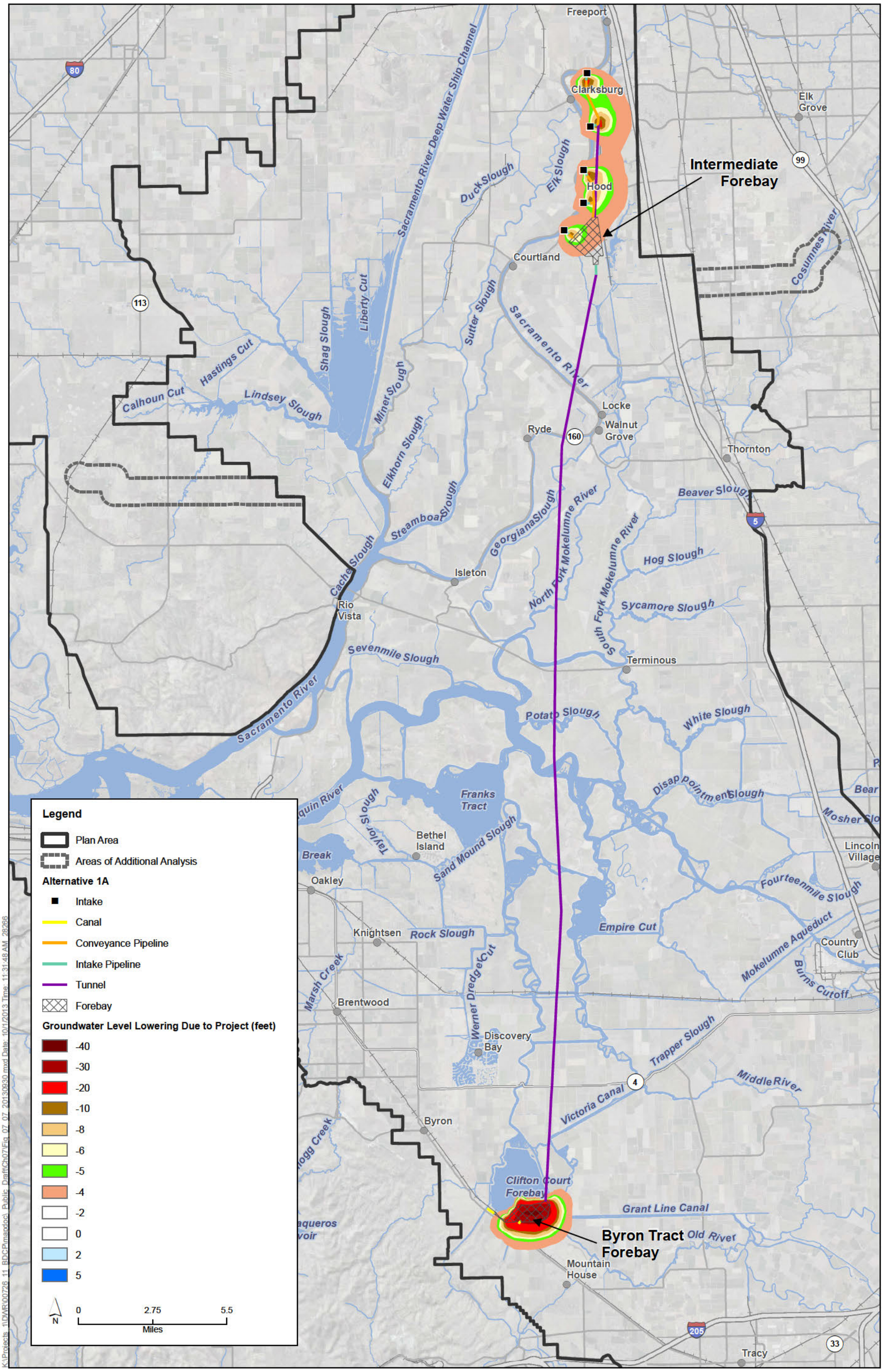
Sources: Plan Area, SAIC 2010; Model CVHM-D, CH2M Hill 2010.
* Note: CVHM-D grid cells are uniformly spaced on 0 25-mile centers

Figure 7-5
Groundwater Model Domains in the Delta Region



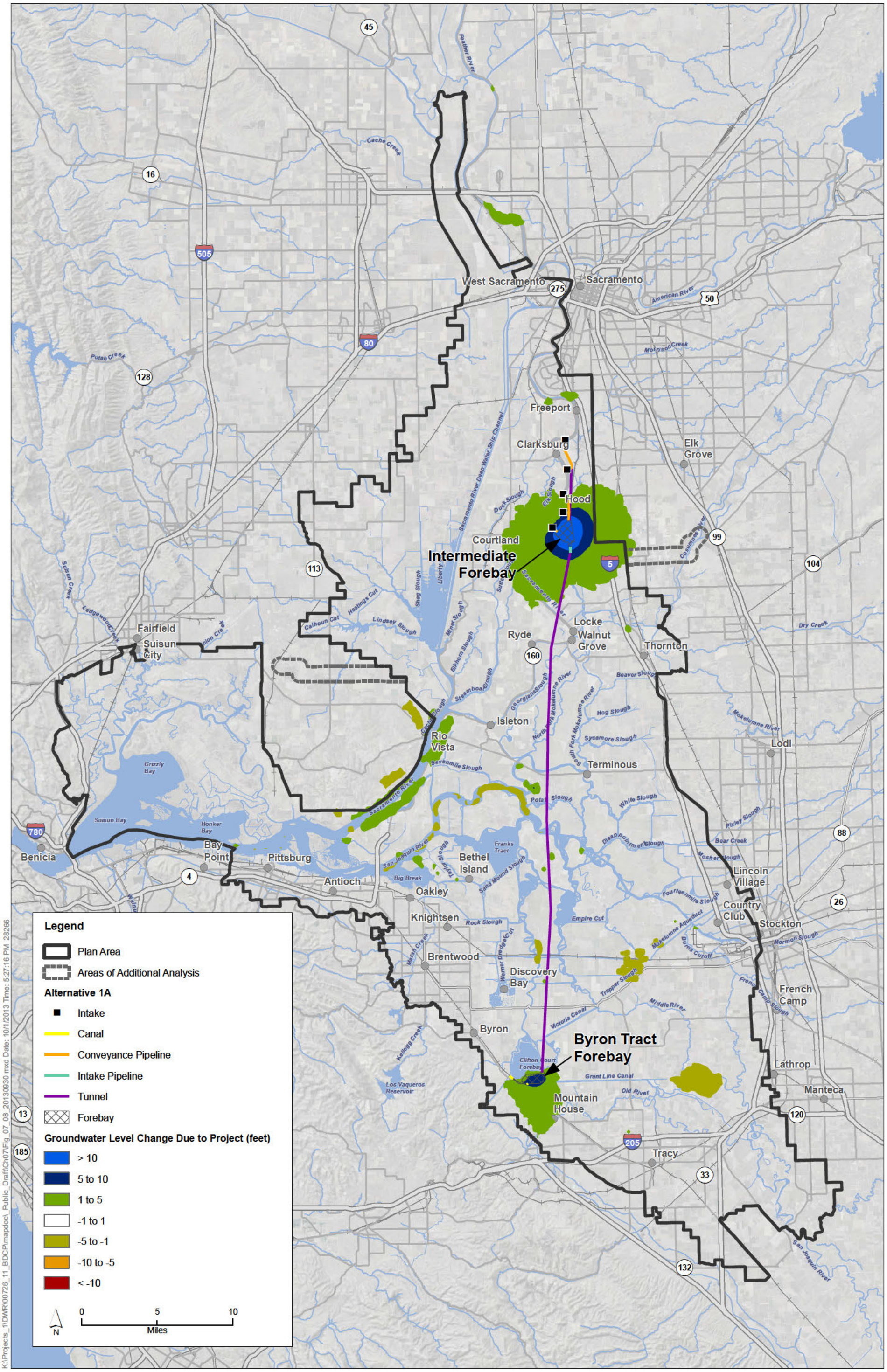
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M Hill 2012

Figure 7-6
Typical Forecasted Peak Groundwater Level Changes in the San Joaquin and Tulare Export Service Areas for the No Action Alternative as Compared to Existing Conditions



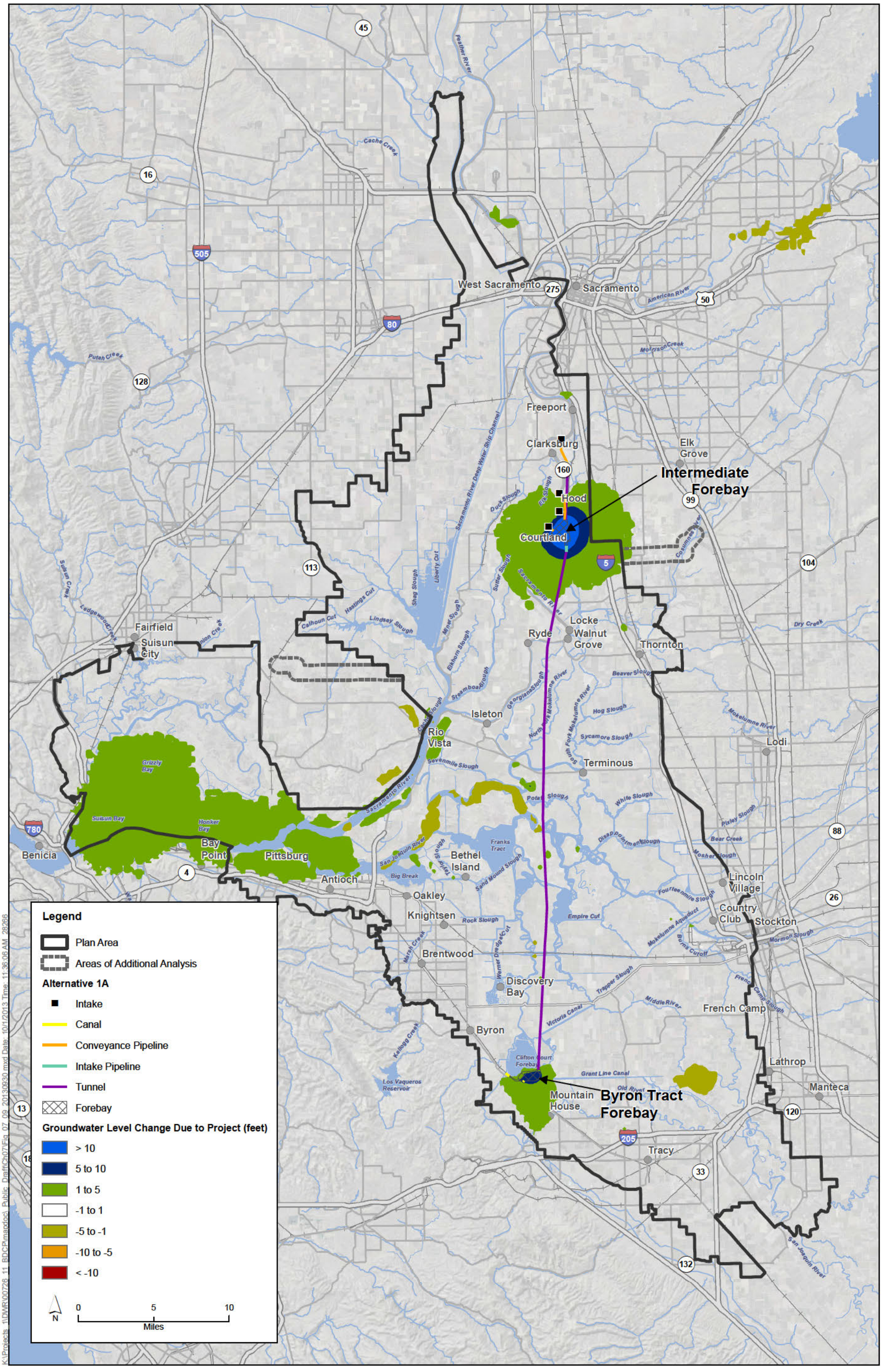
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;
Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2012.

Figure 7-7
Forecasted Groundwater Level Lowering From Construction Dewatering for Alternative 1A



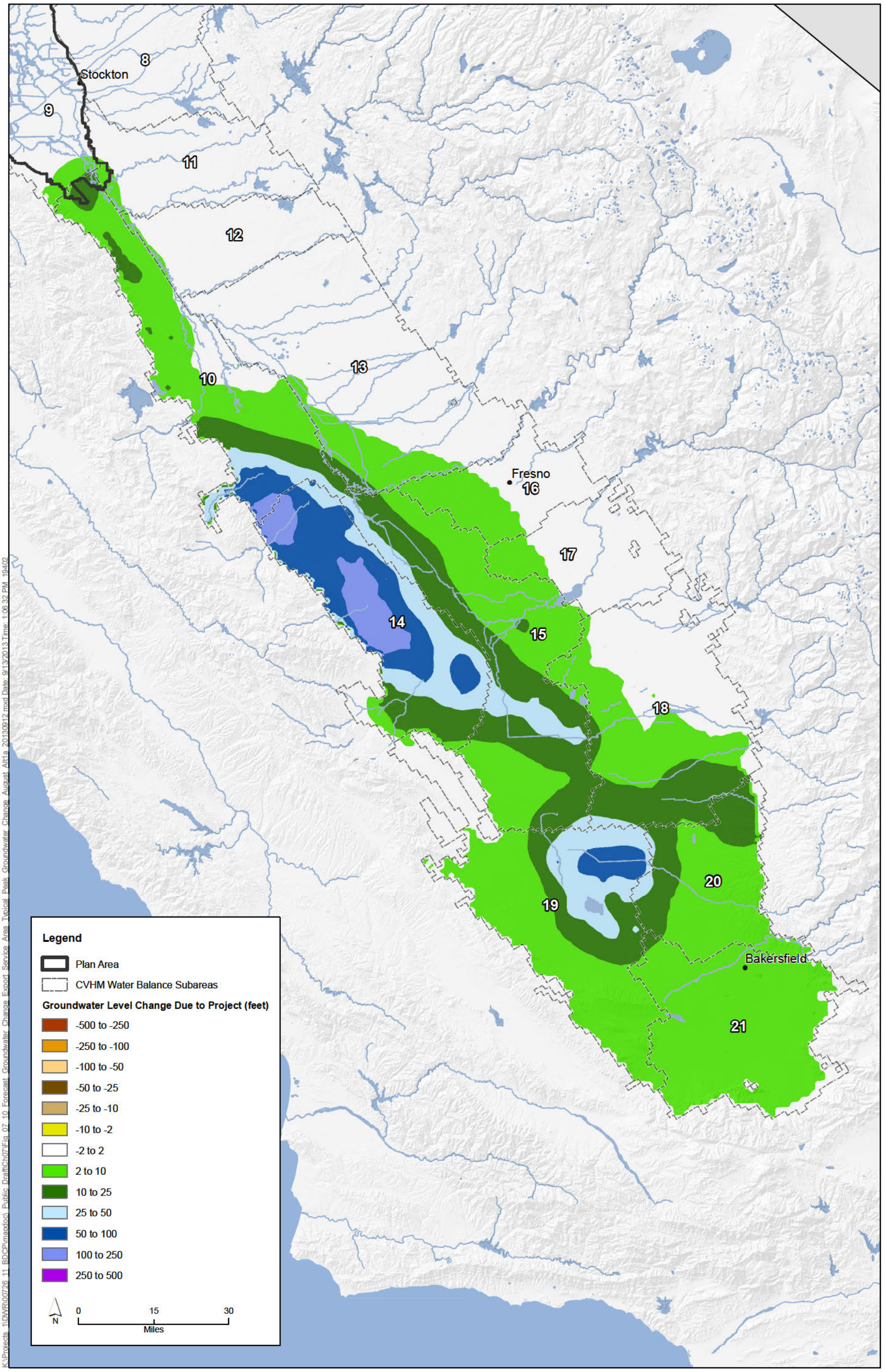
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2012

Figure 7-8
Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1A Compared to the No Action Alternative



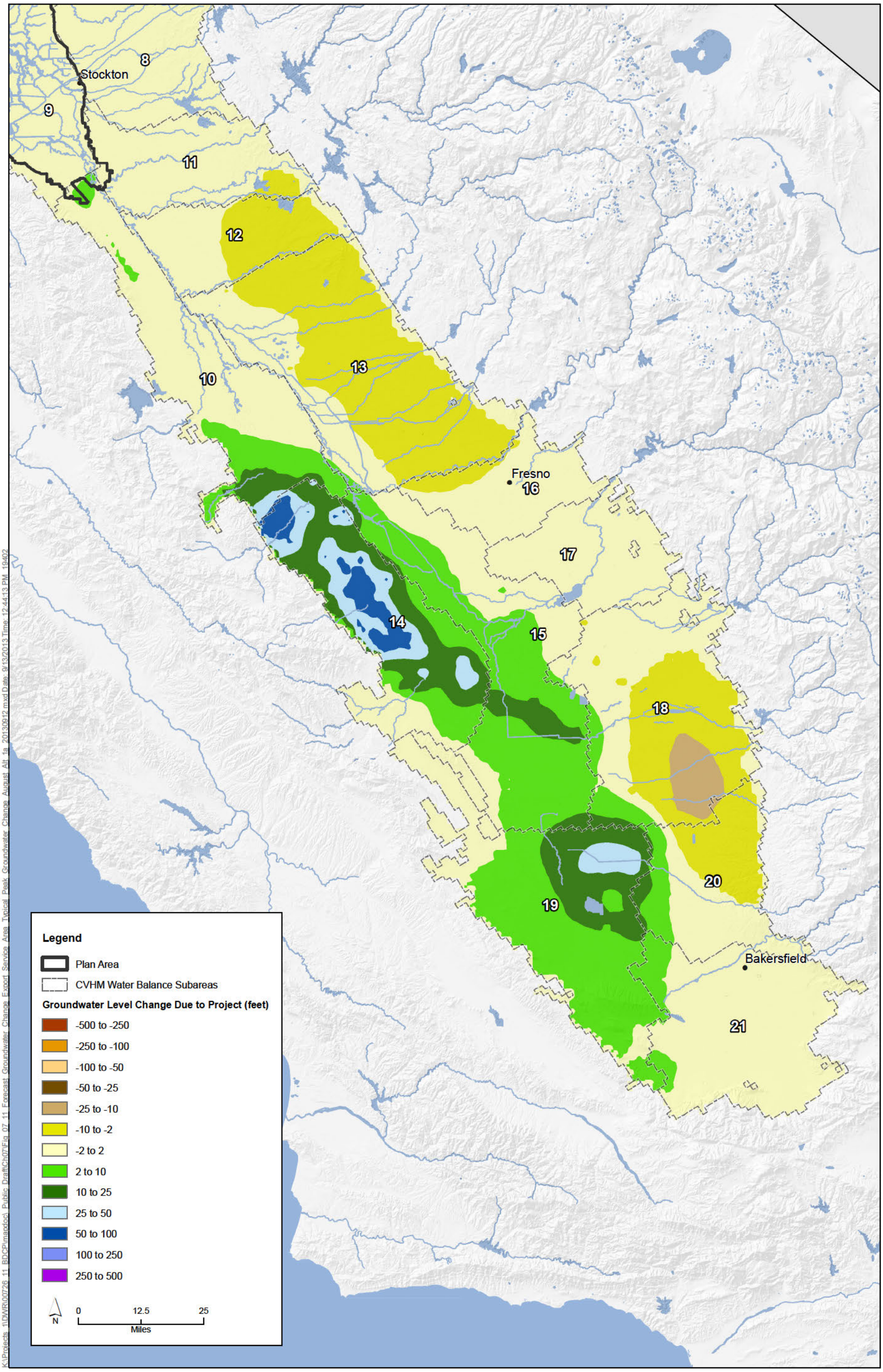
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;
Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2012.

Figure 7-9
Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1A Compared to Existing Conditions



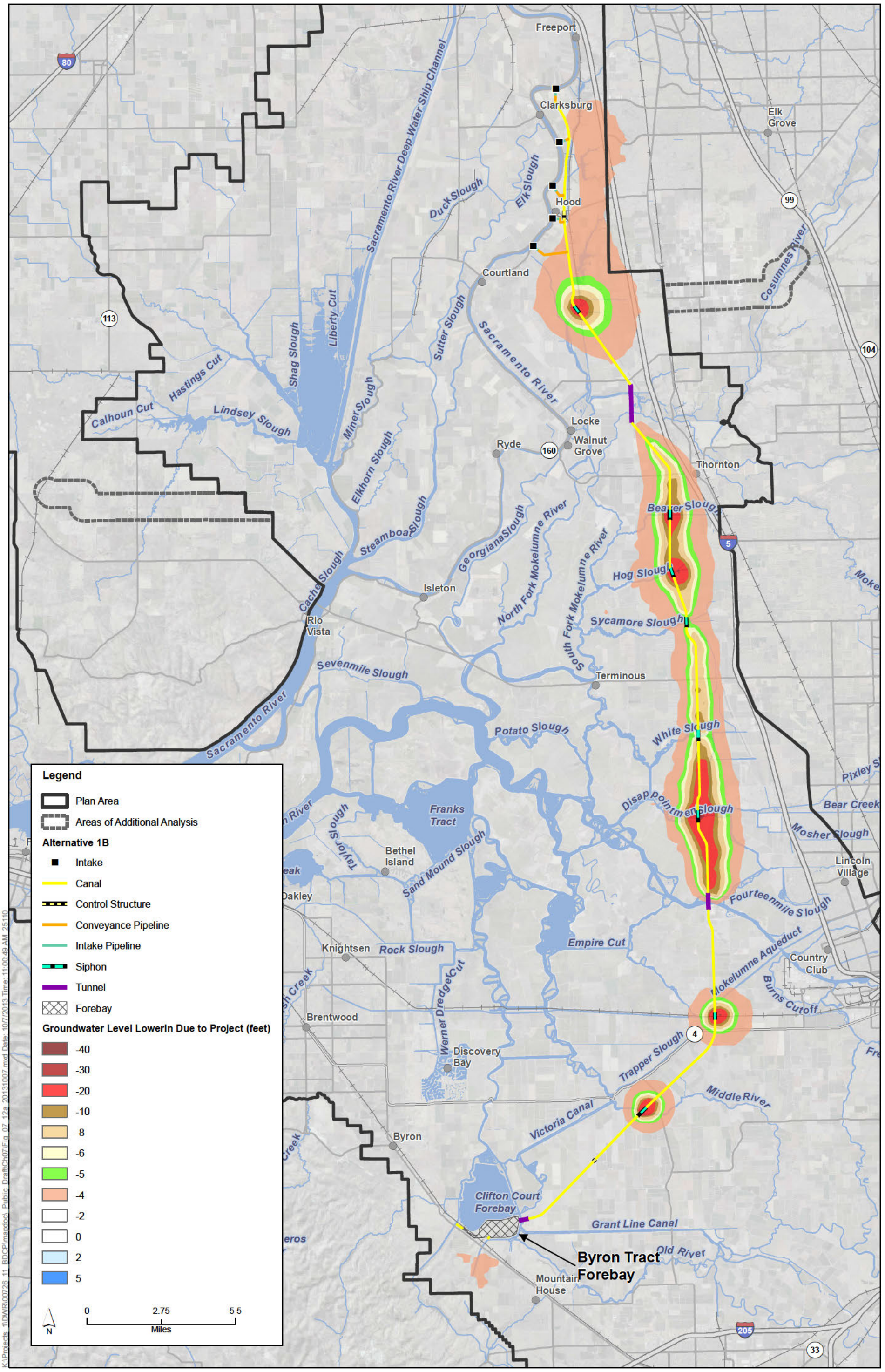
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Groundwater-level Impacts, CH2M Hill 2012

Figure 7-10
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 1A Compared to the No Action Alternative



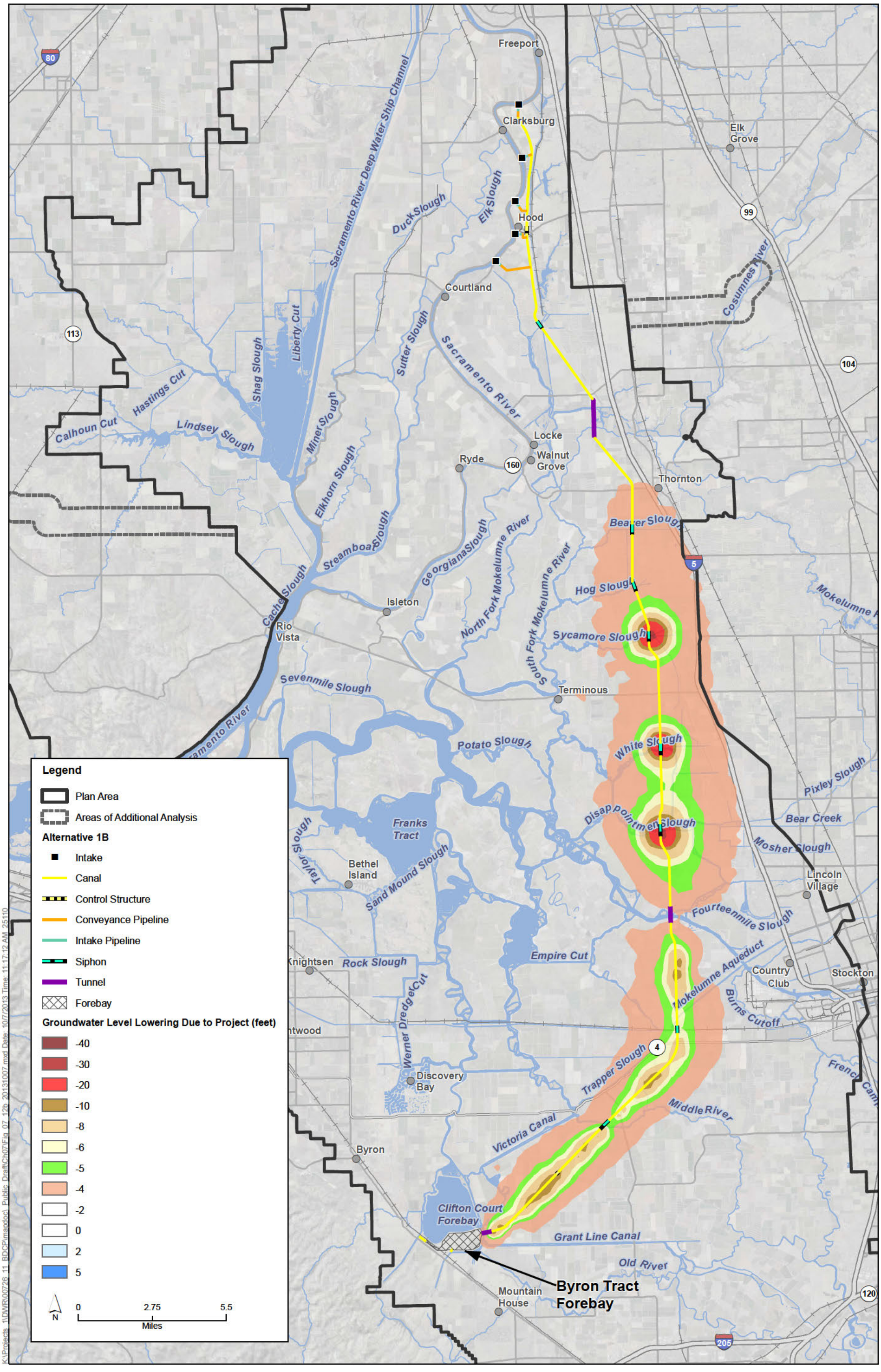
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Groundwater-level Impacts, CH2M Hill 2012

Figure 7-11
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 1A Compared to Existing Conditions



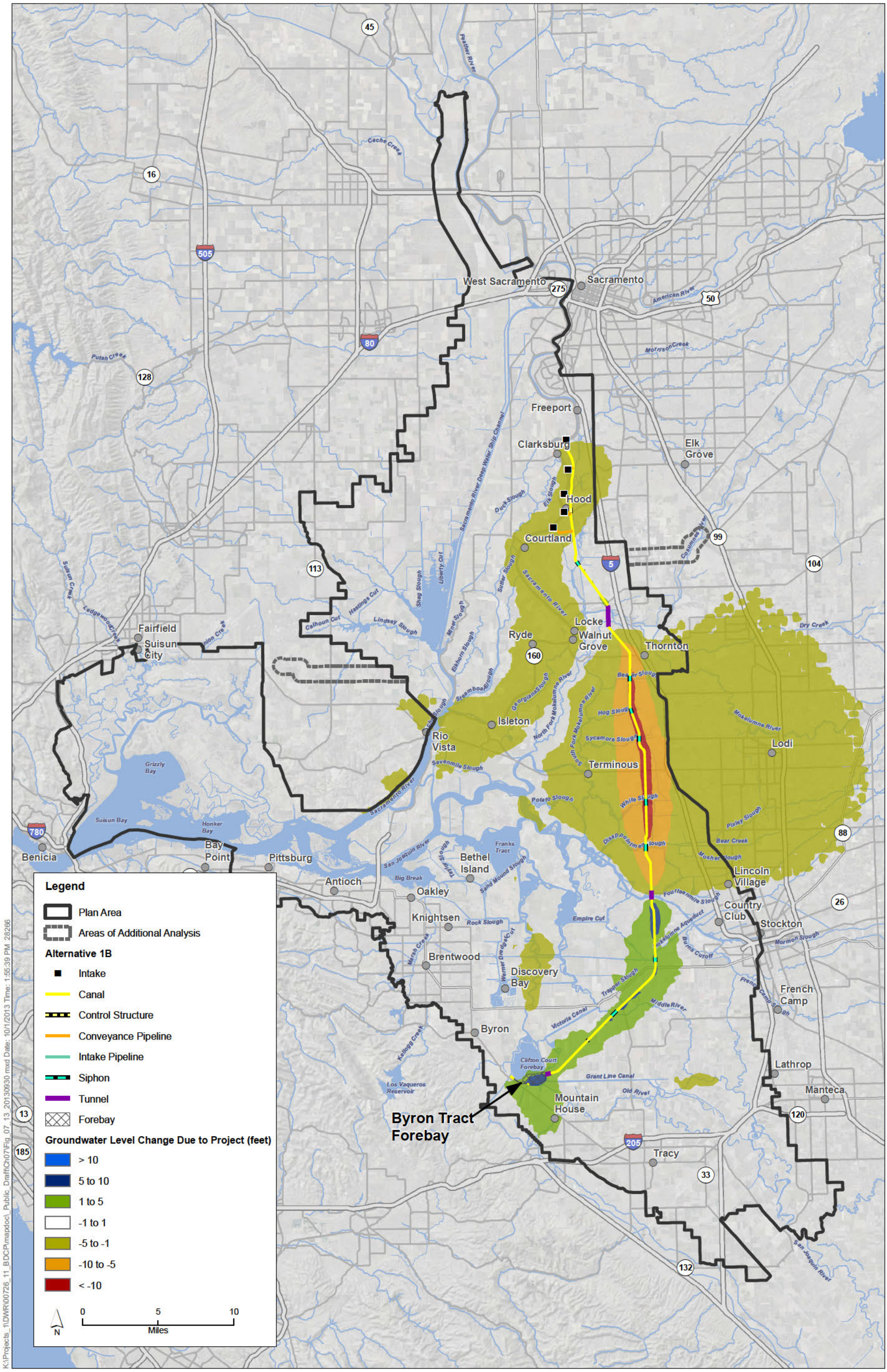
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;
Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

Figure 7-12a
Forecasted Groundwater Level Lowering from Middle-Stage Construction Dewatering—Alternative 1B



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;
Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010.

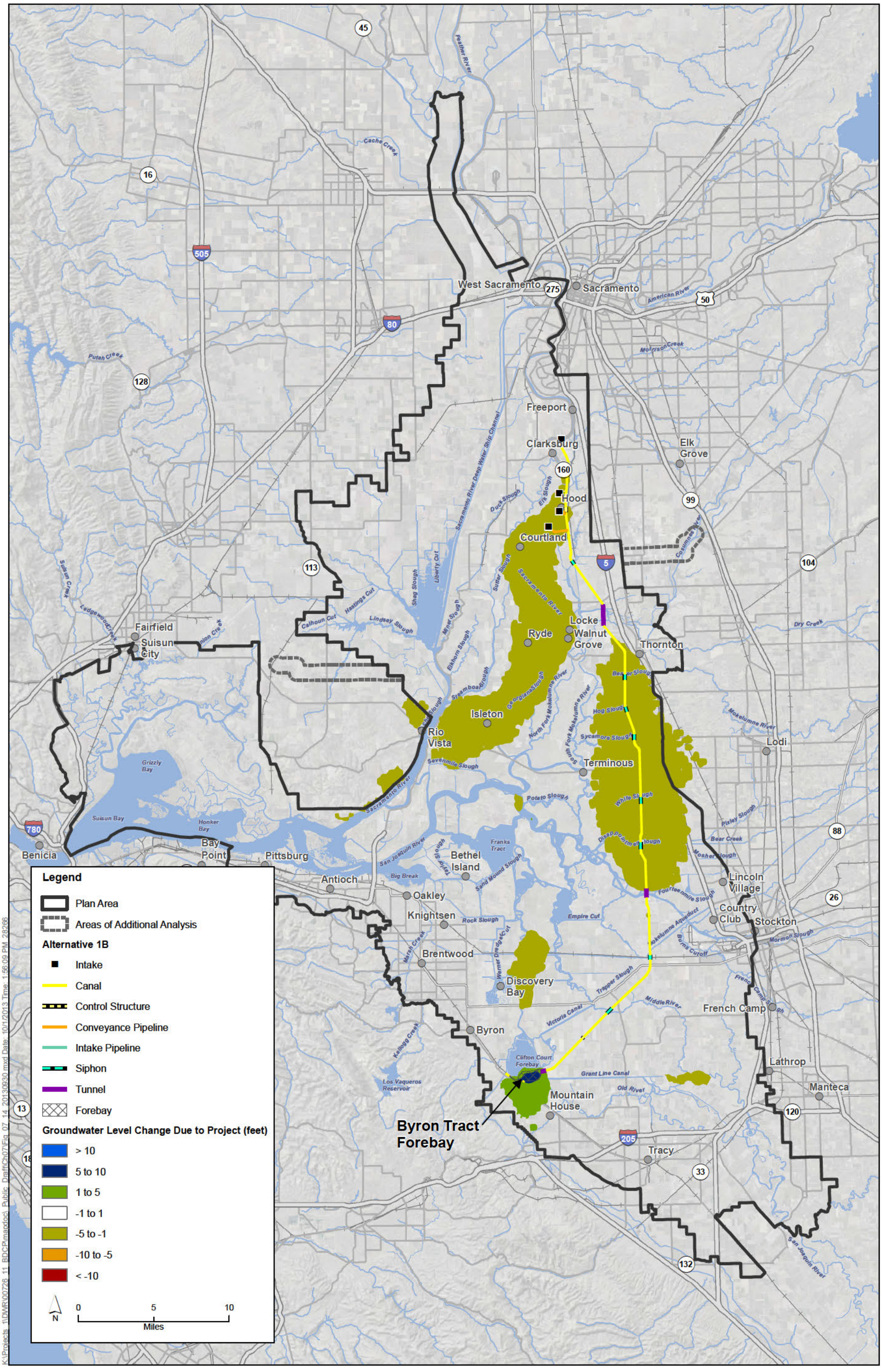
Figure 7-12b
Forecasted Groundwater Level Lowering from Late-Stage Construction Dewatering—Alternative 1B



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;
Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

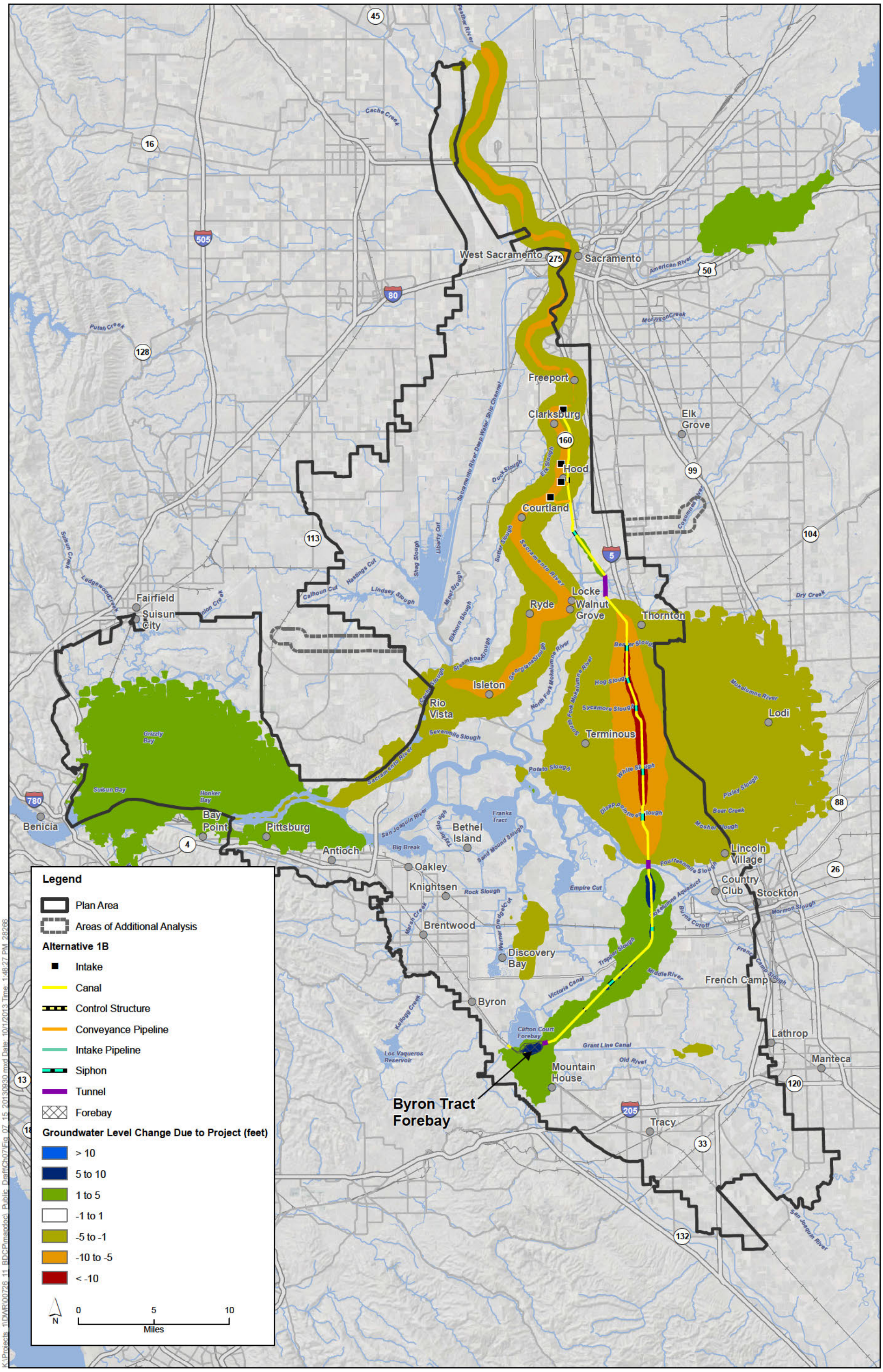
Figure 7-13

Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1B Compared to the No Action Alternative—Unlined Canal



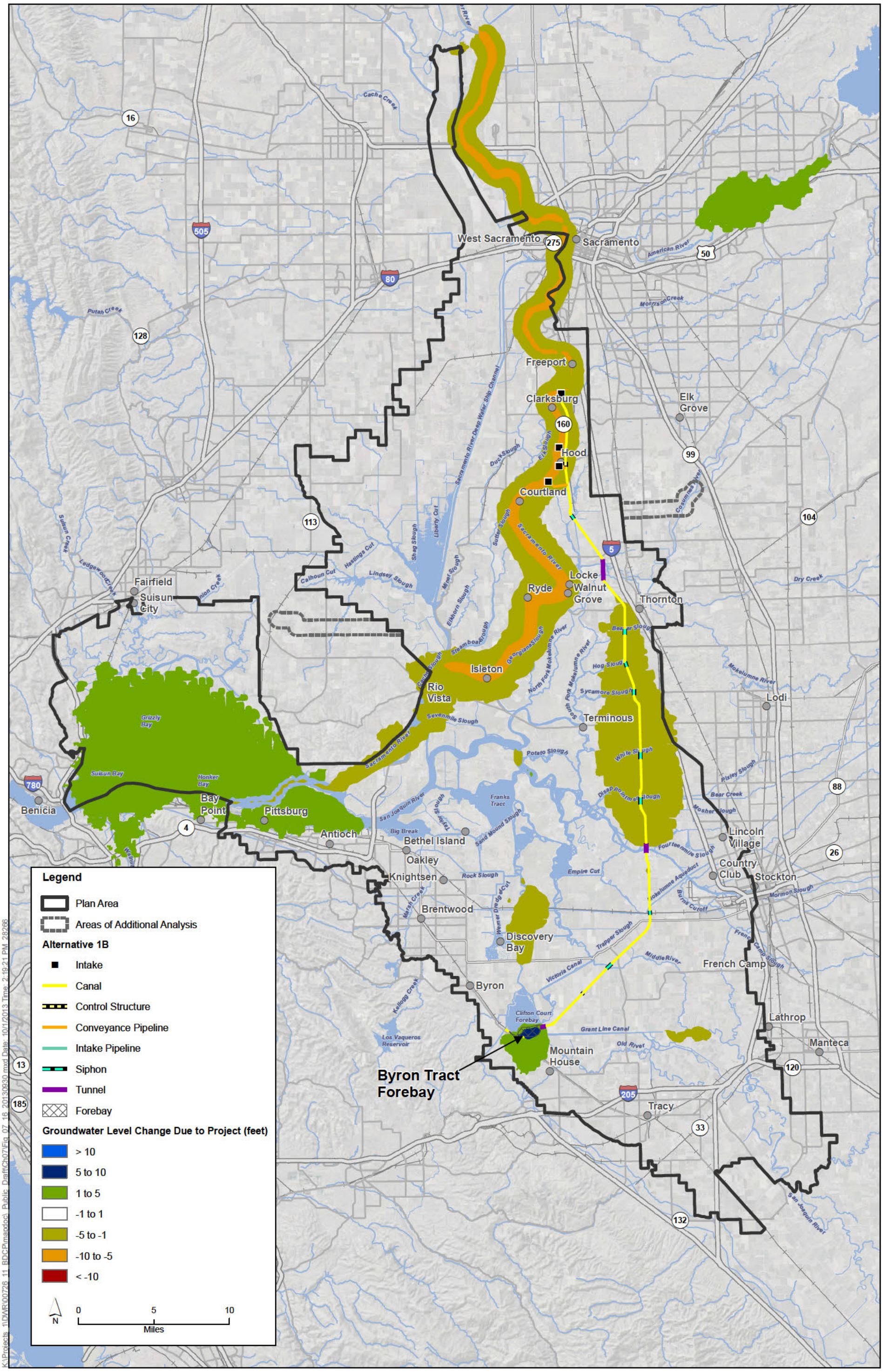
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

Figure 7-14
Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1B Compared to the No Action Alternative—Lined Canal



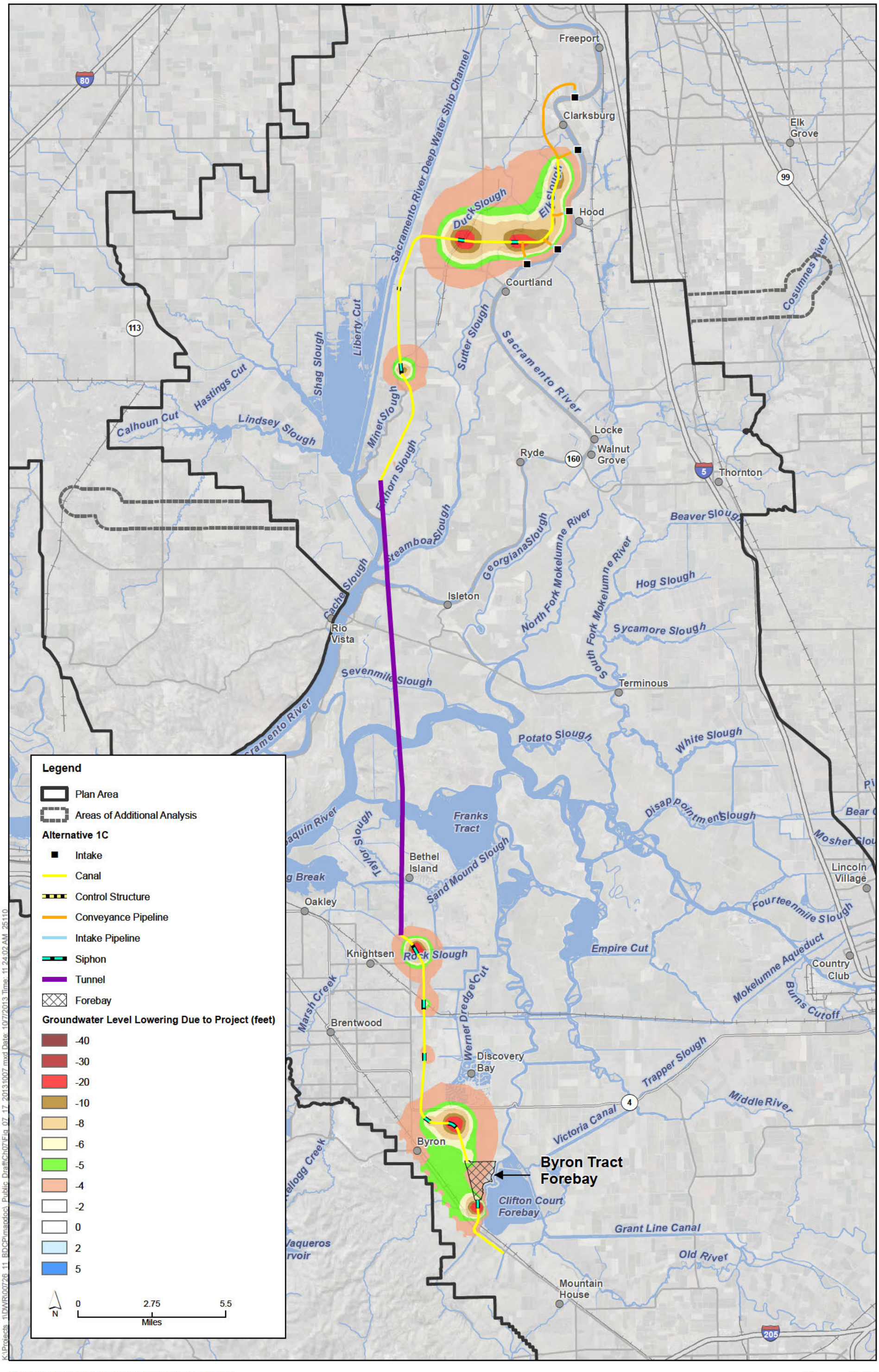
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;
Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

Figure 7-15
Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1B Compared to Existing Conditions—Unlined Canal



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;
Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010;

Figure 7-16
Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1B Compared to Existing Conditions—Lined Canal



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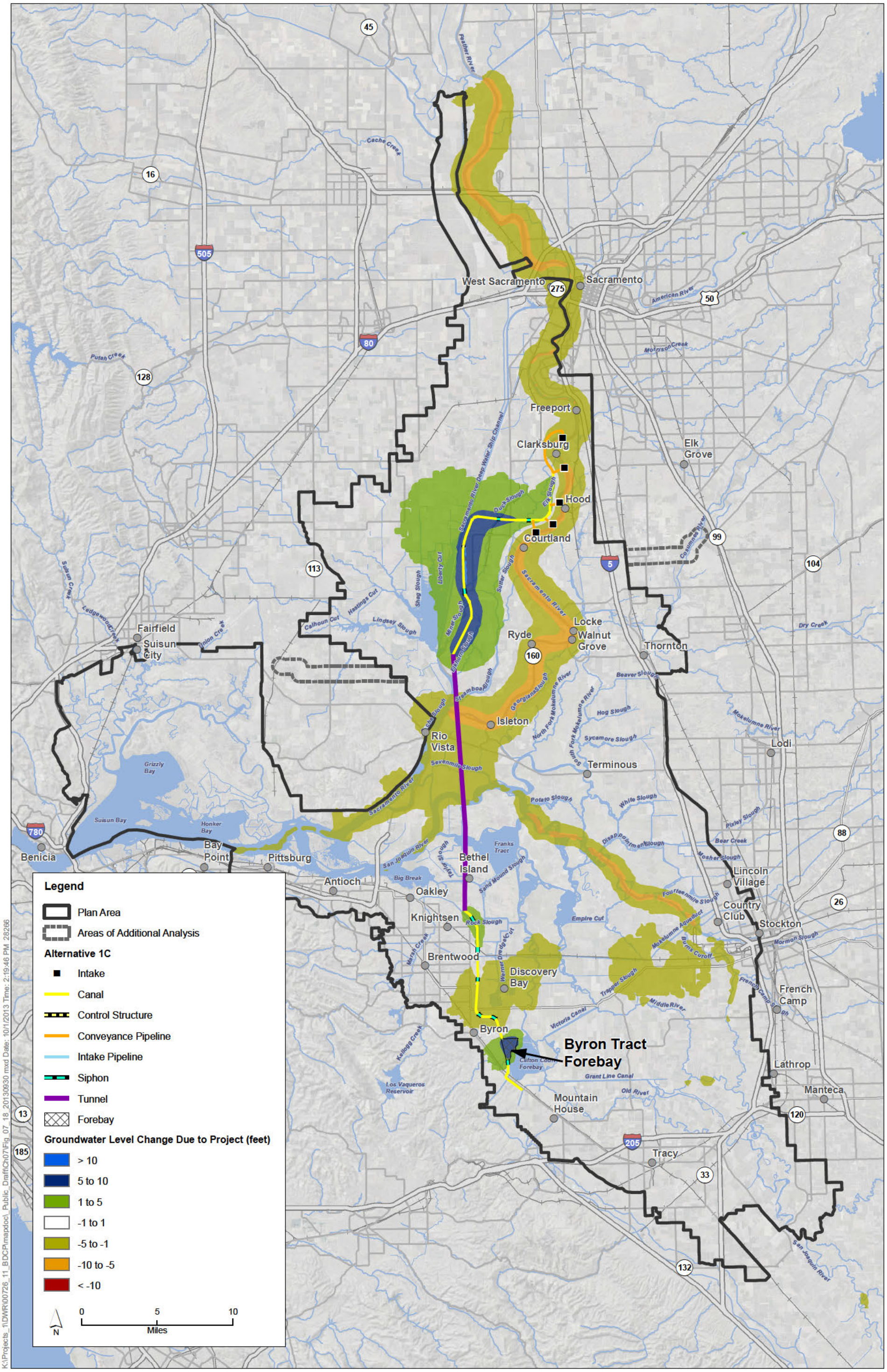
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;
Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010;

Figure 7-17
Forecasted Groundwater Level Lowering From Construction Dewatering — Alternative 1C



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

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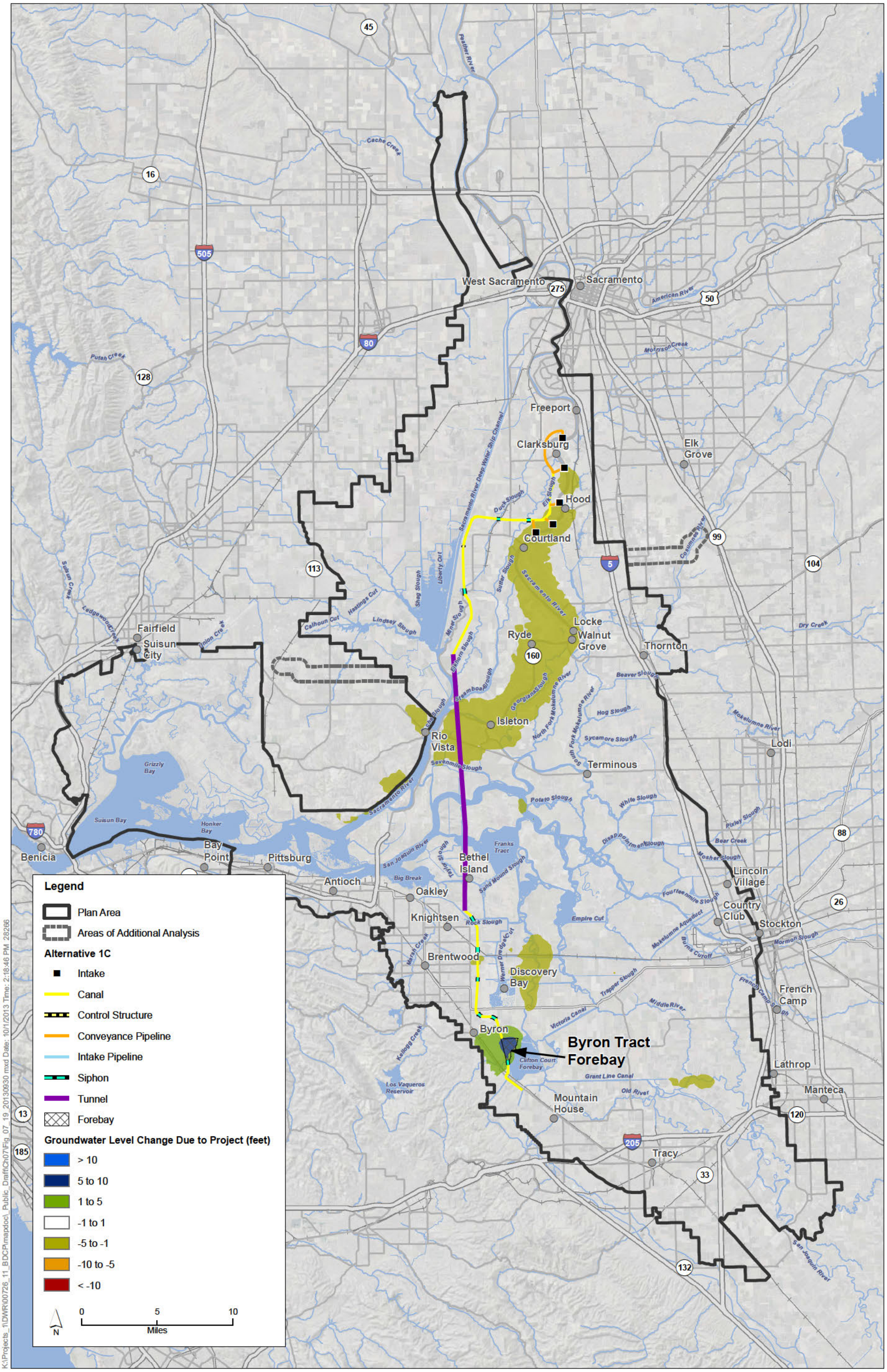
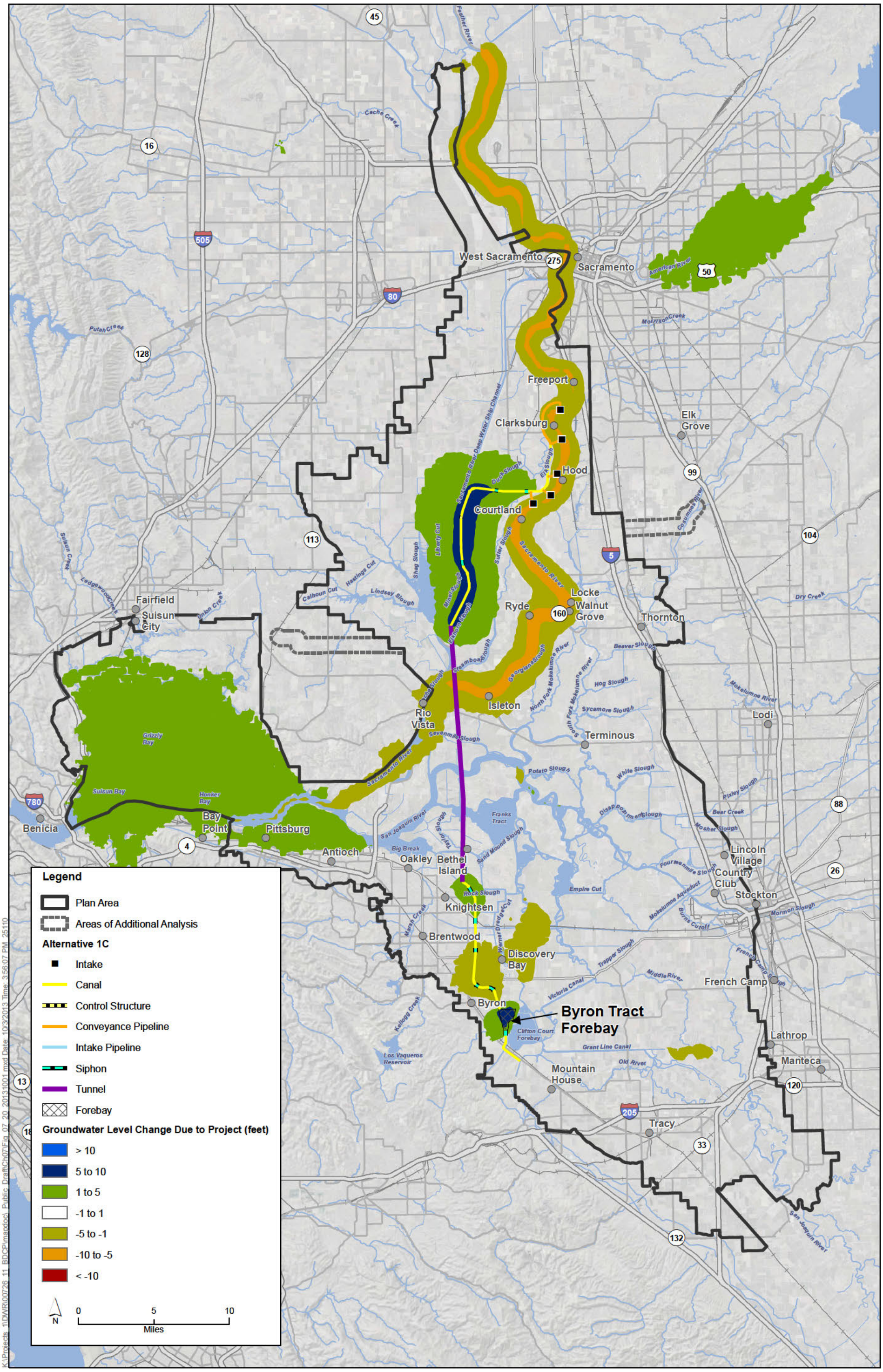
Figure 7-18
Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1C Compared to the No Action Alternative—Unlined Canal



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

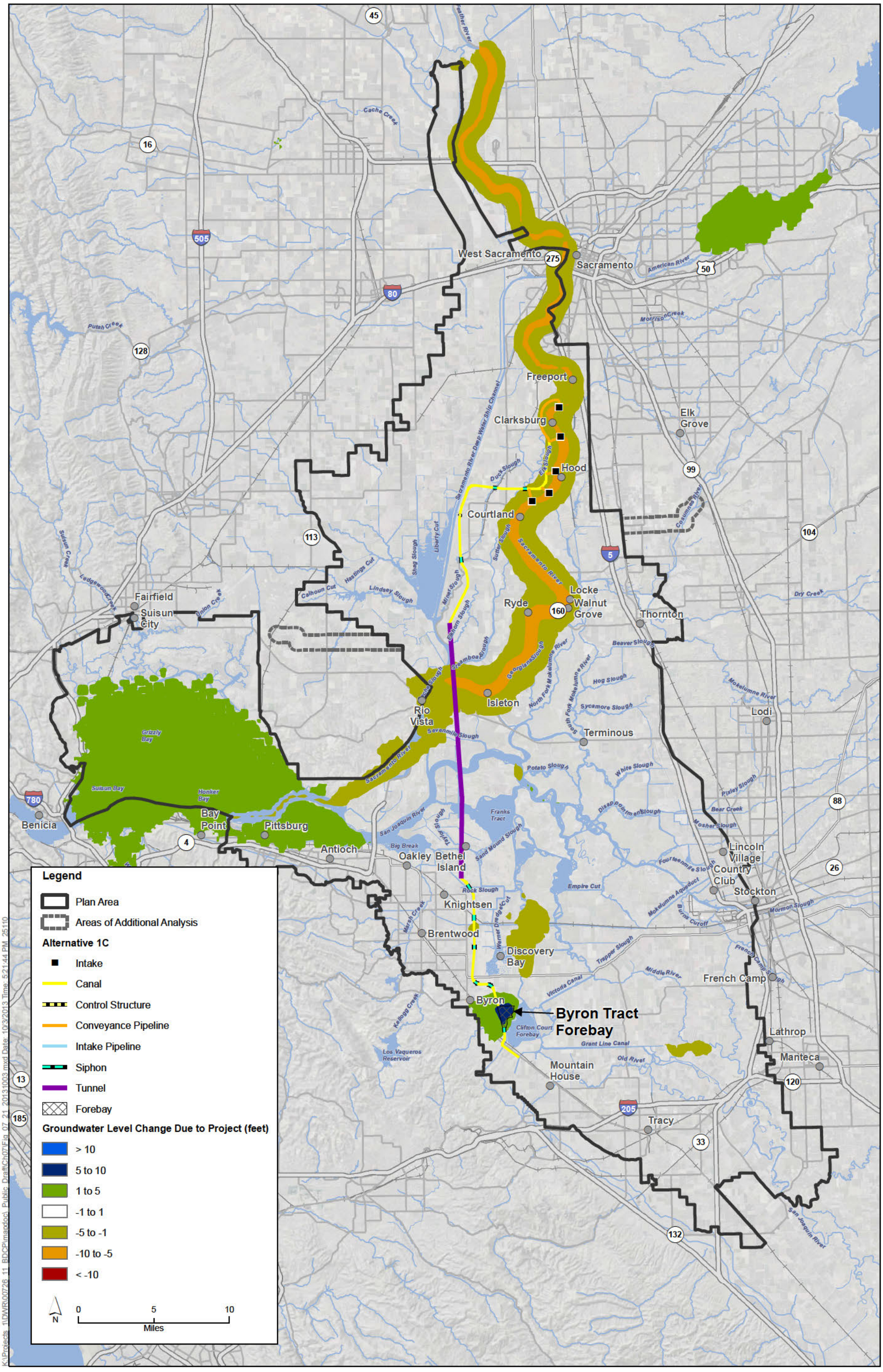
K:\Projects_1\DWR\00726_11_BDCP\mapdoc_Public_Draft\Ch07\Fig_07_19_20130930.mxd Date: 10/1/2013 Time: 2:18:46 PM 28266

Figure 7-19
Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1C Compared to the No Action Alternative—Lined Canal



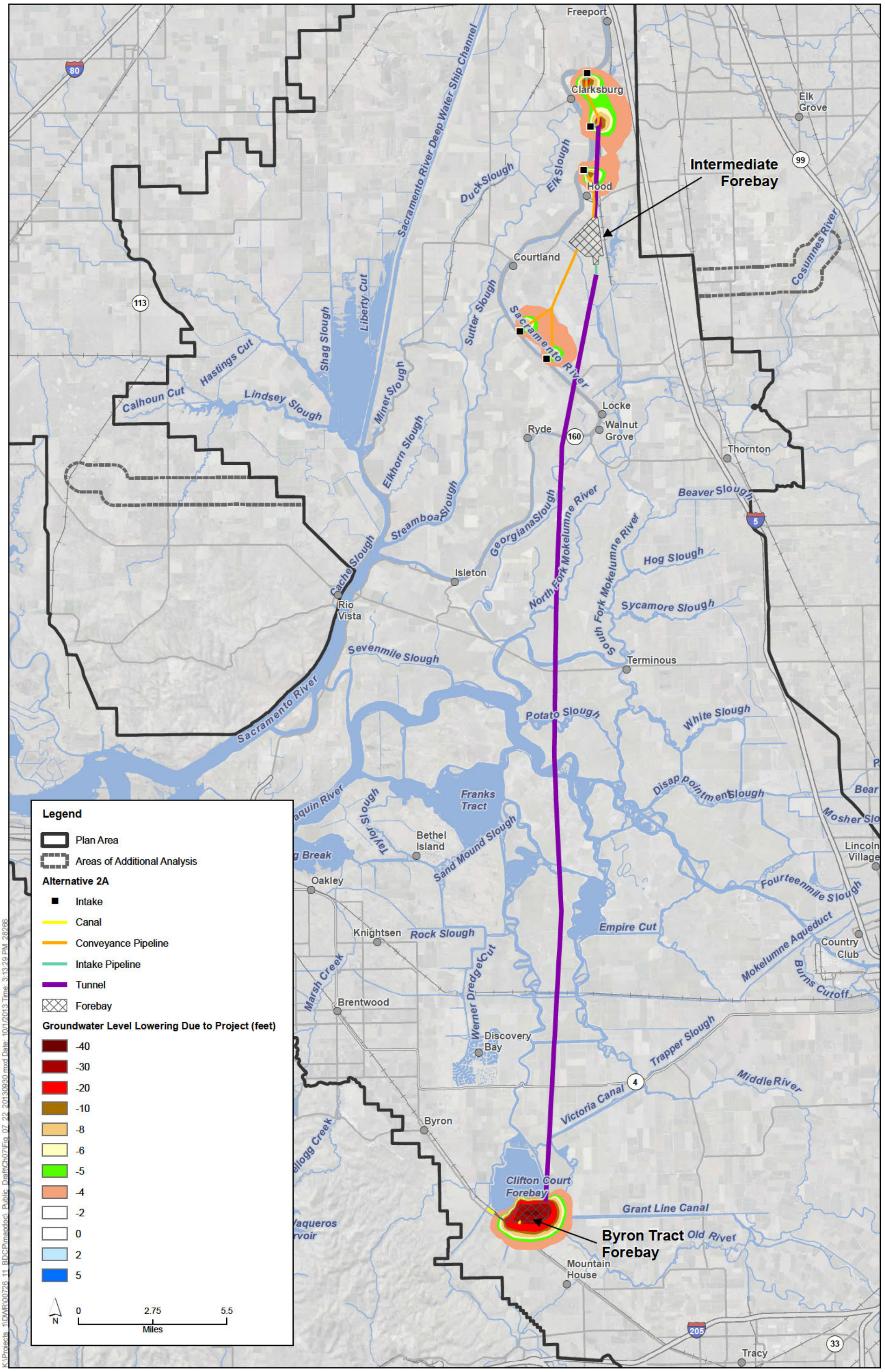
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

Figure 7-20
Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1C Compared to Existing Conditions—Unlined Canal



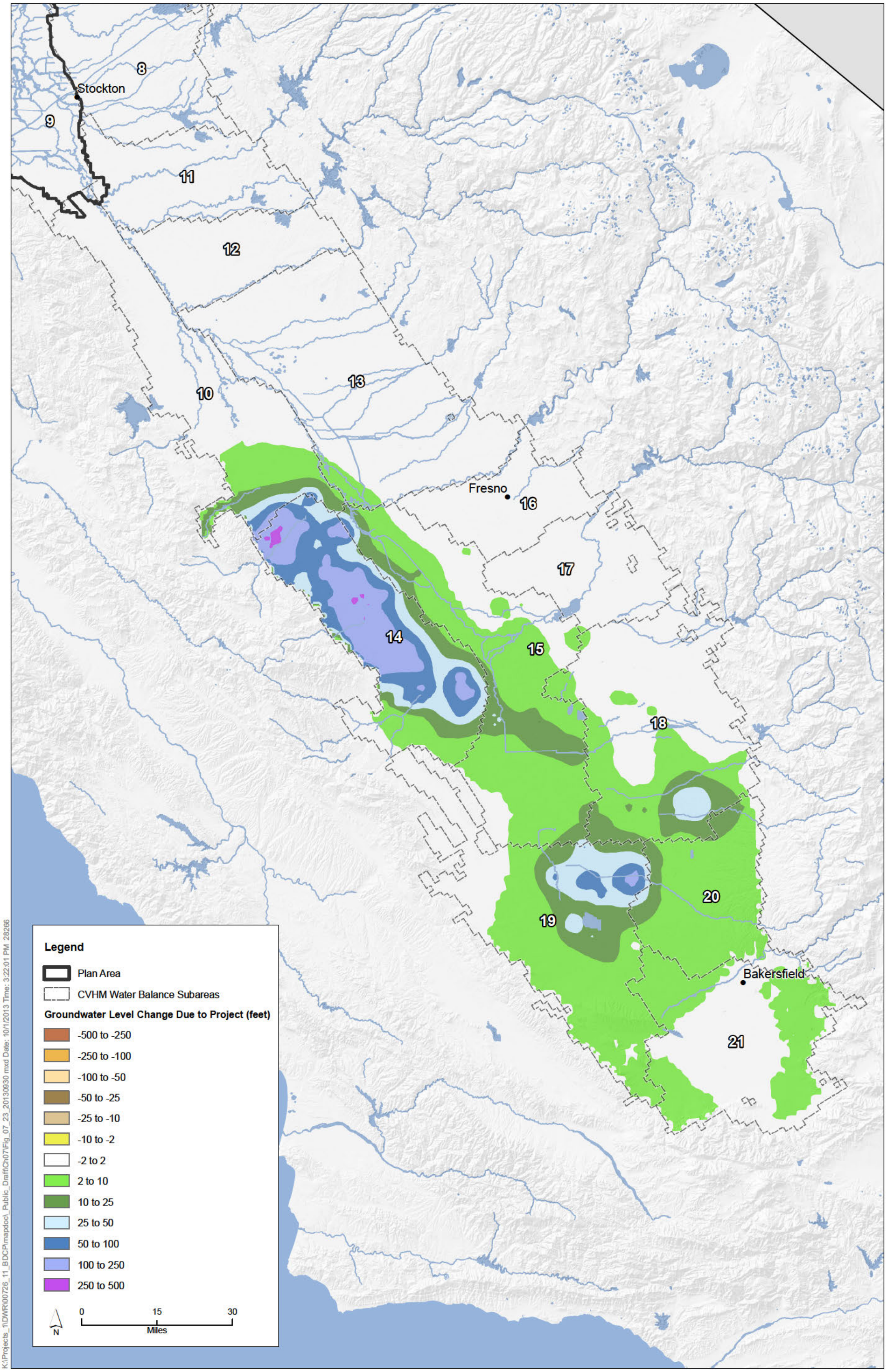
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;
Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010;

Figure 7-21
Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1C Compared to Existing Conditions—Lined Canal



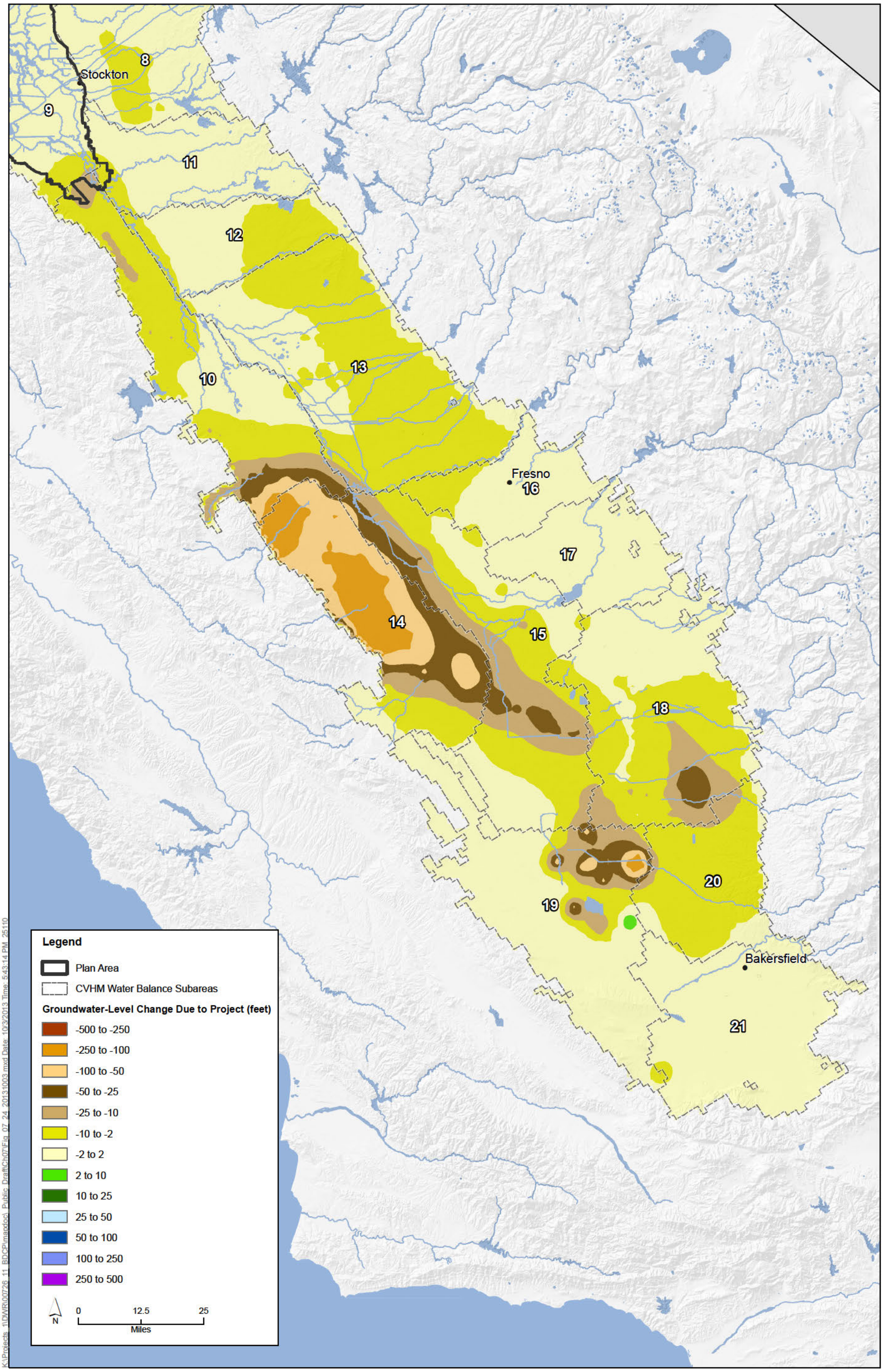
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;
Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2012.

Figure 7-22
Forecasted Groundwater Level Lowering From Construction Dewatering for Alternative 2A



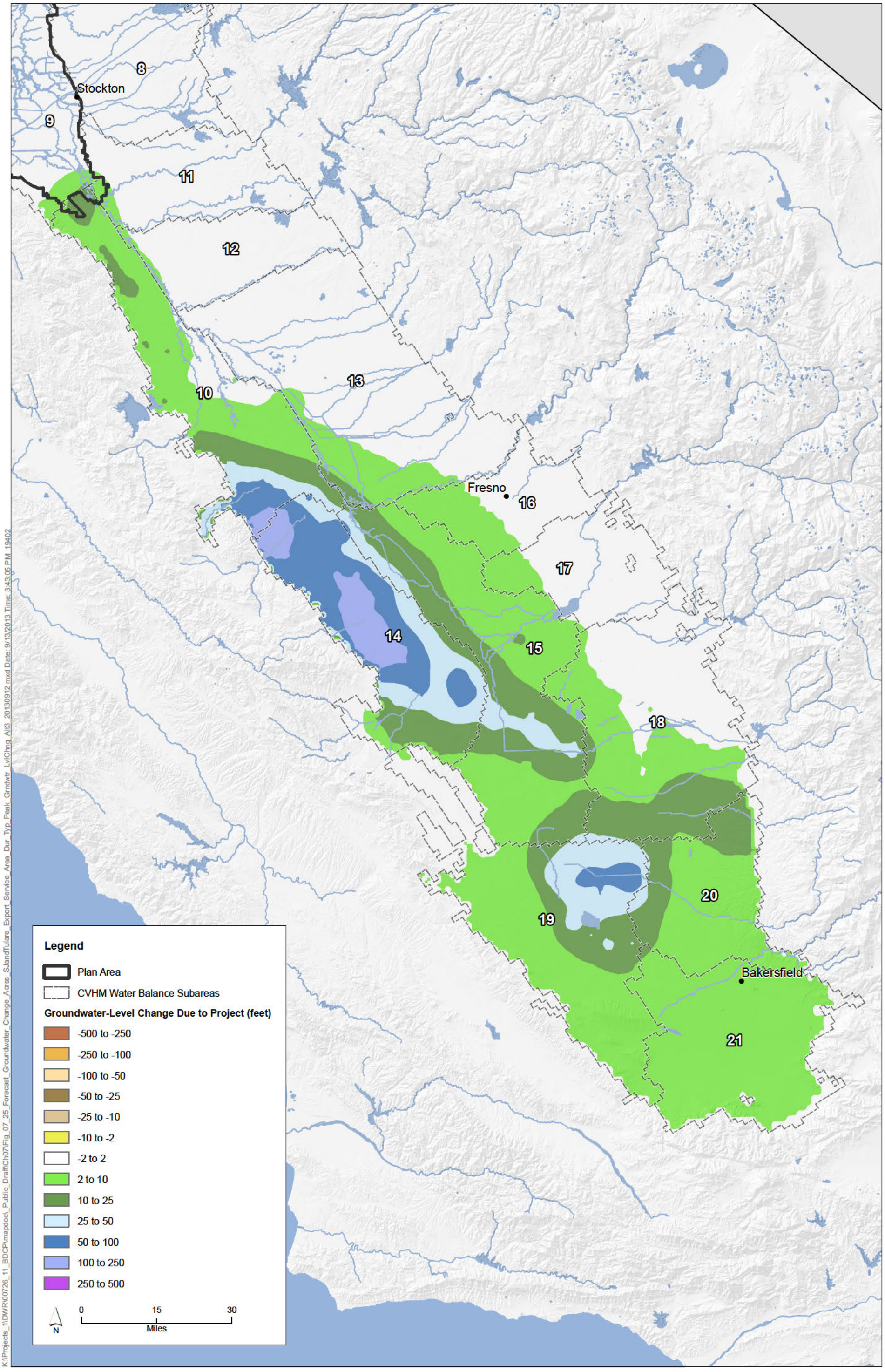
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M H LL 2012

Figure 7-23
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 2A Compared to the No Action Alternative



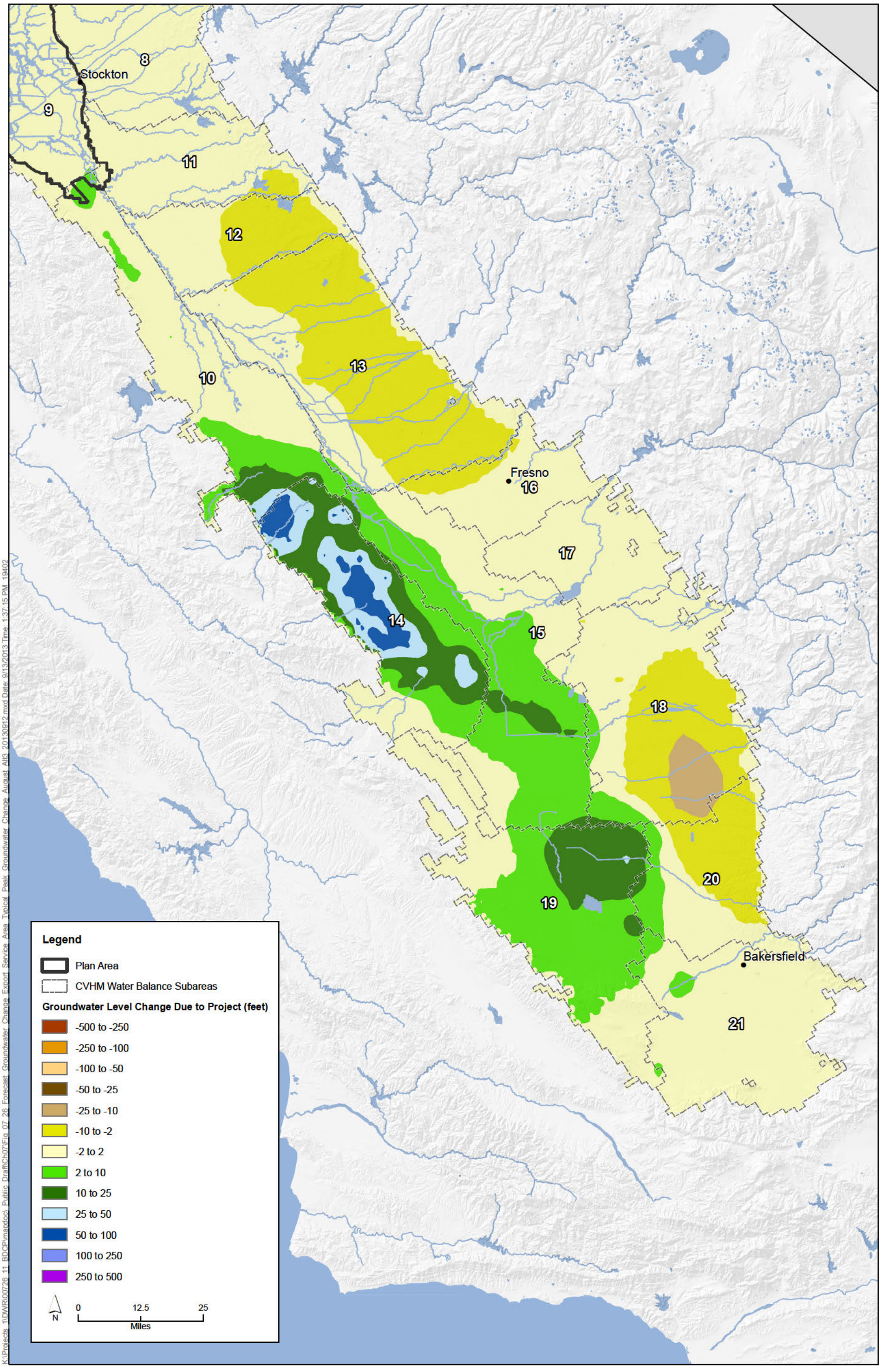
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M Hill 2012

Figure 7-24
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area during a Typical Peak Groundwater Level Change Condition in August for Alternative 2A Compared to Existing Conditions



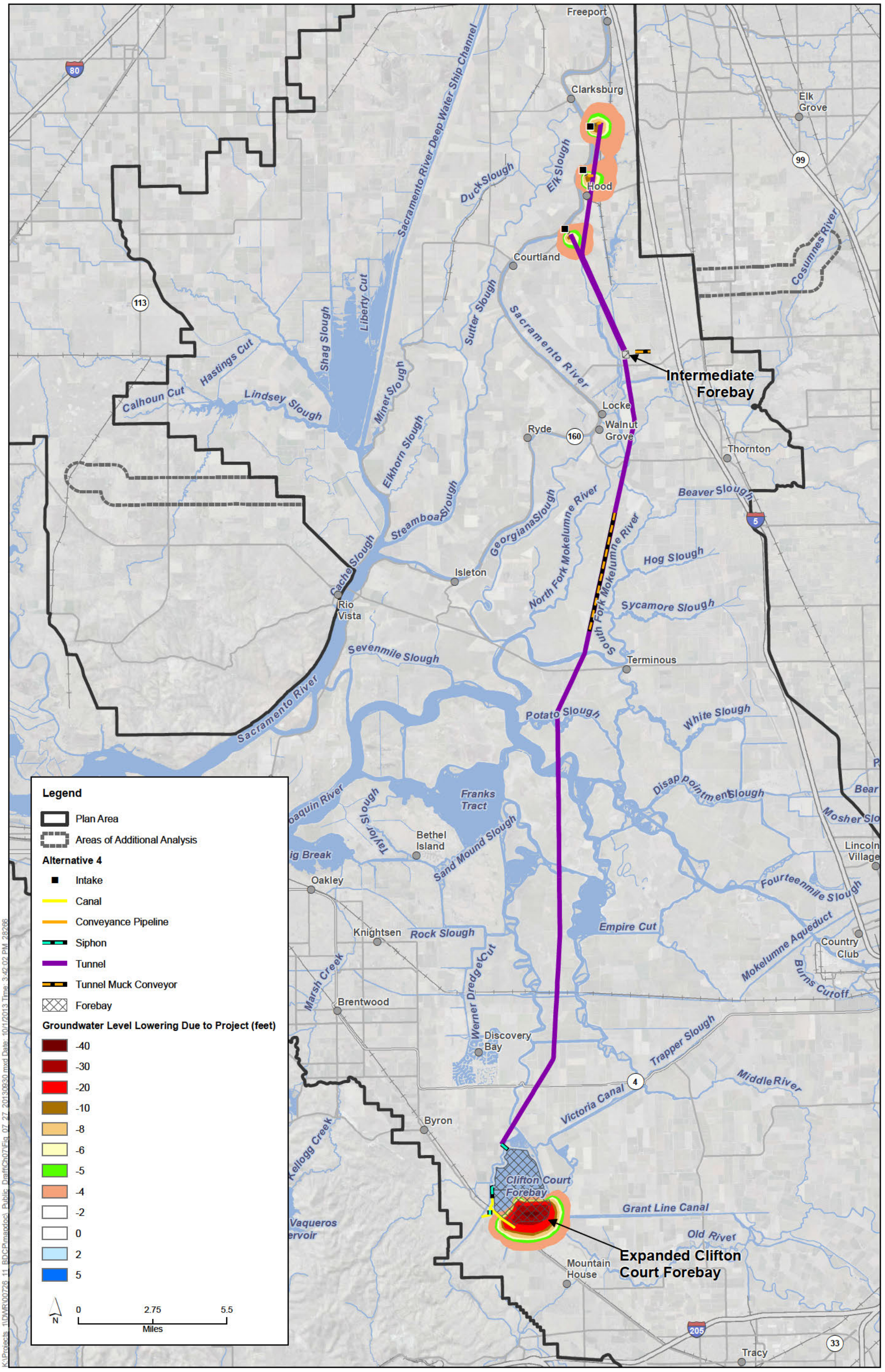
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M HILL 2012

Figure 7-25
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 3 Compared to the No Action Alternative



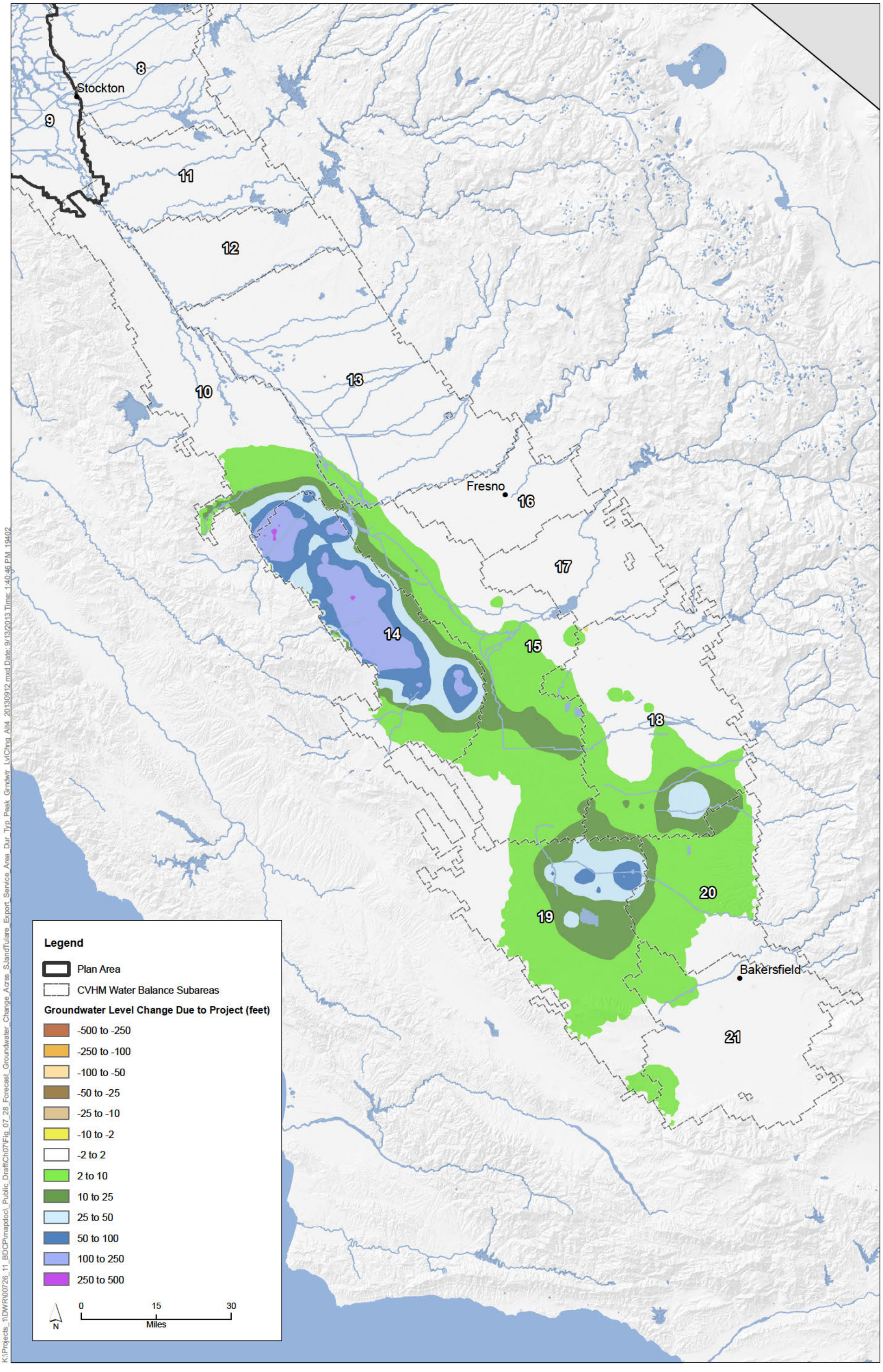
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M Hill 2012

Figure 7-26
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 3 Compared to Existing Conditions



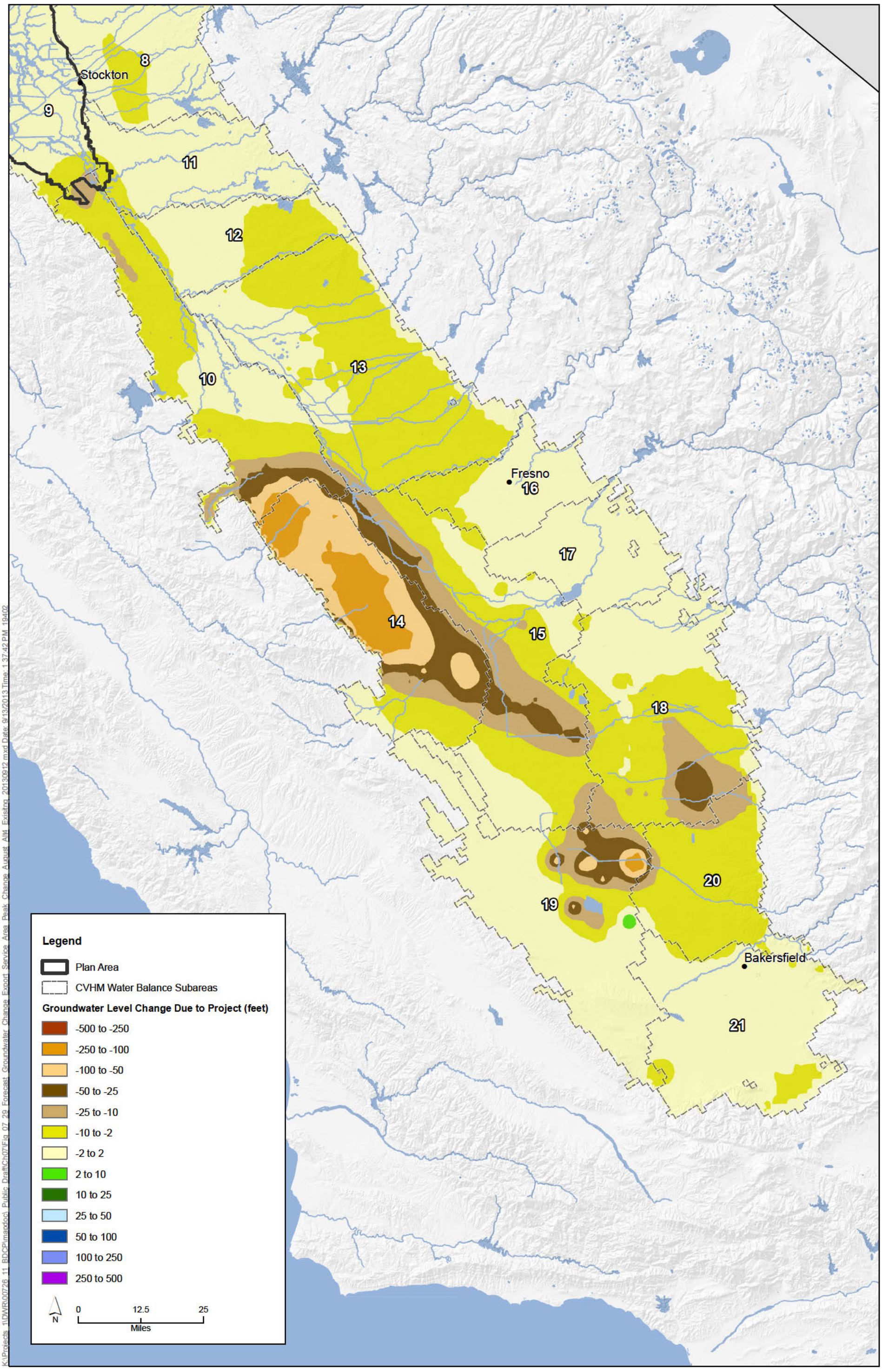
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;
Constructability (Rev 2b), DHCCP DWR 2013; Groundwater-level Impacts, CH2M Hill 2013.

Figure 7-27
Forecasted Groundwater Level Lowering From Construction Dewatering for Alternative 4



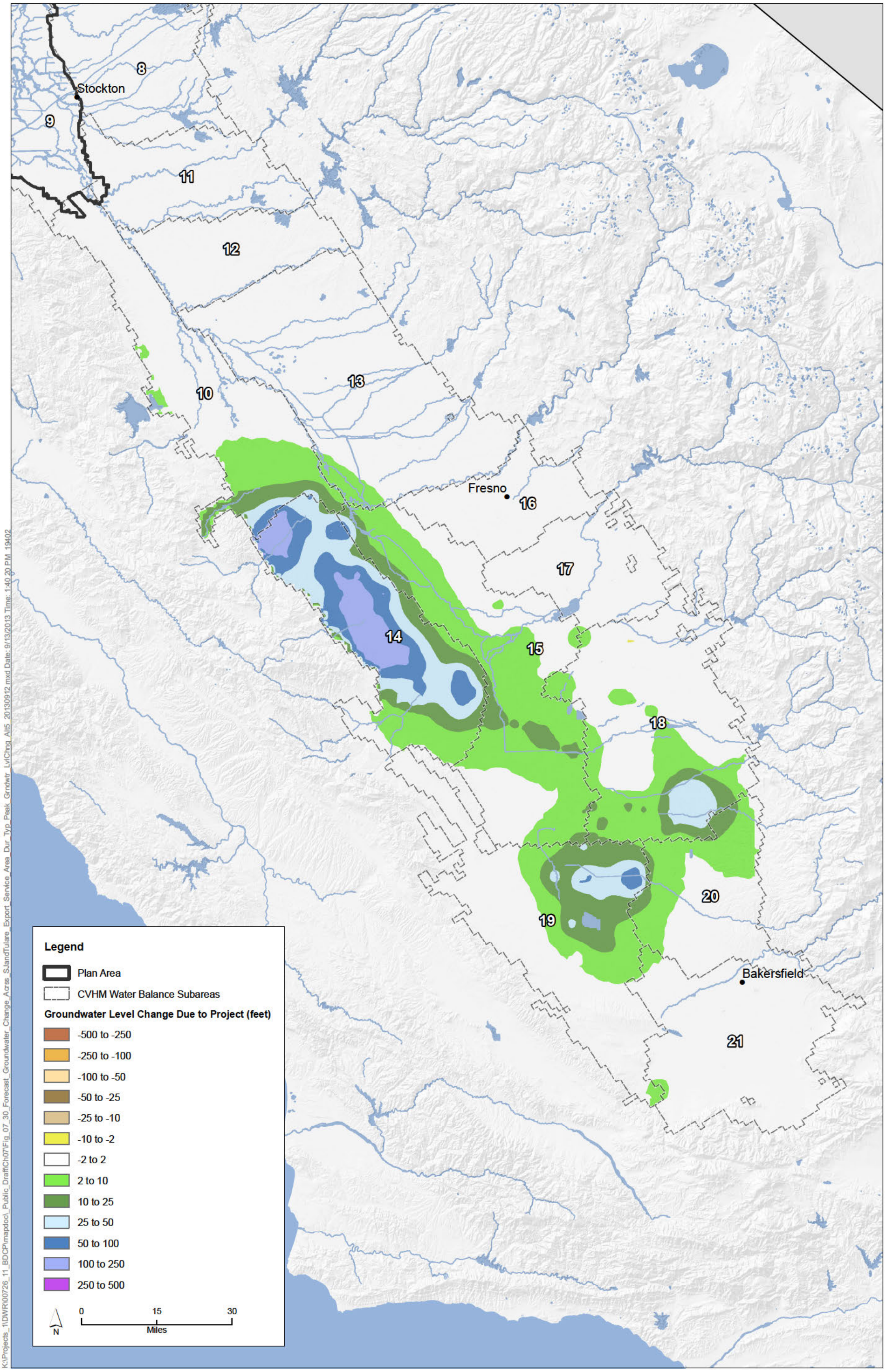
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M HILL 2012

Figure 7-28
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 4 Compared to the No Action Alternative



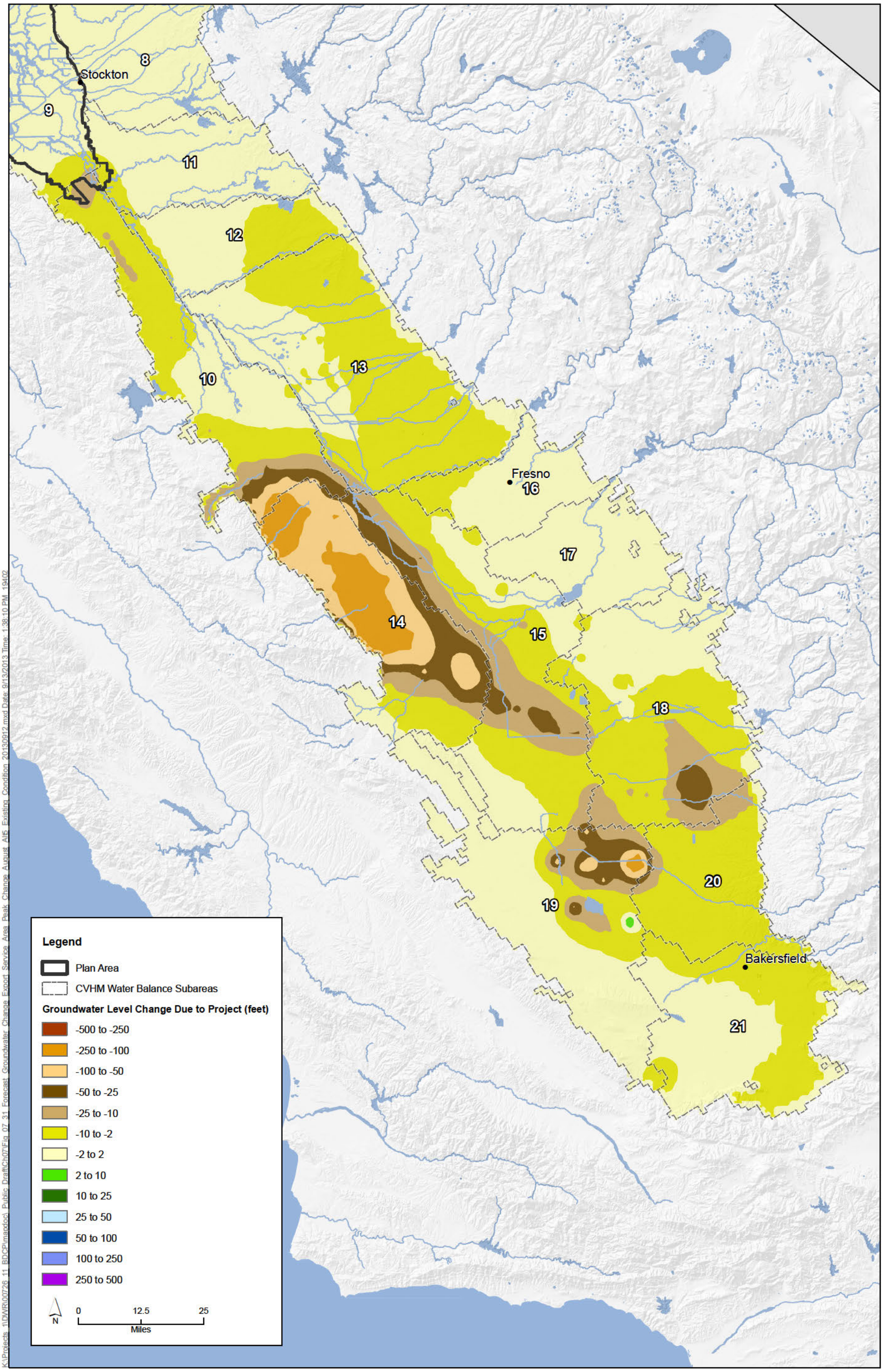
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M Hill 2012

Figure 7-29
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 4 Compared to Existing Conditions



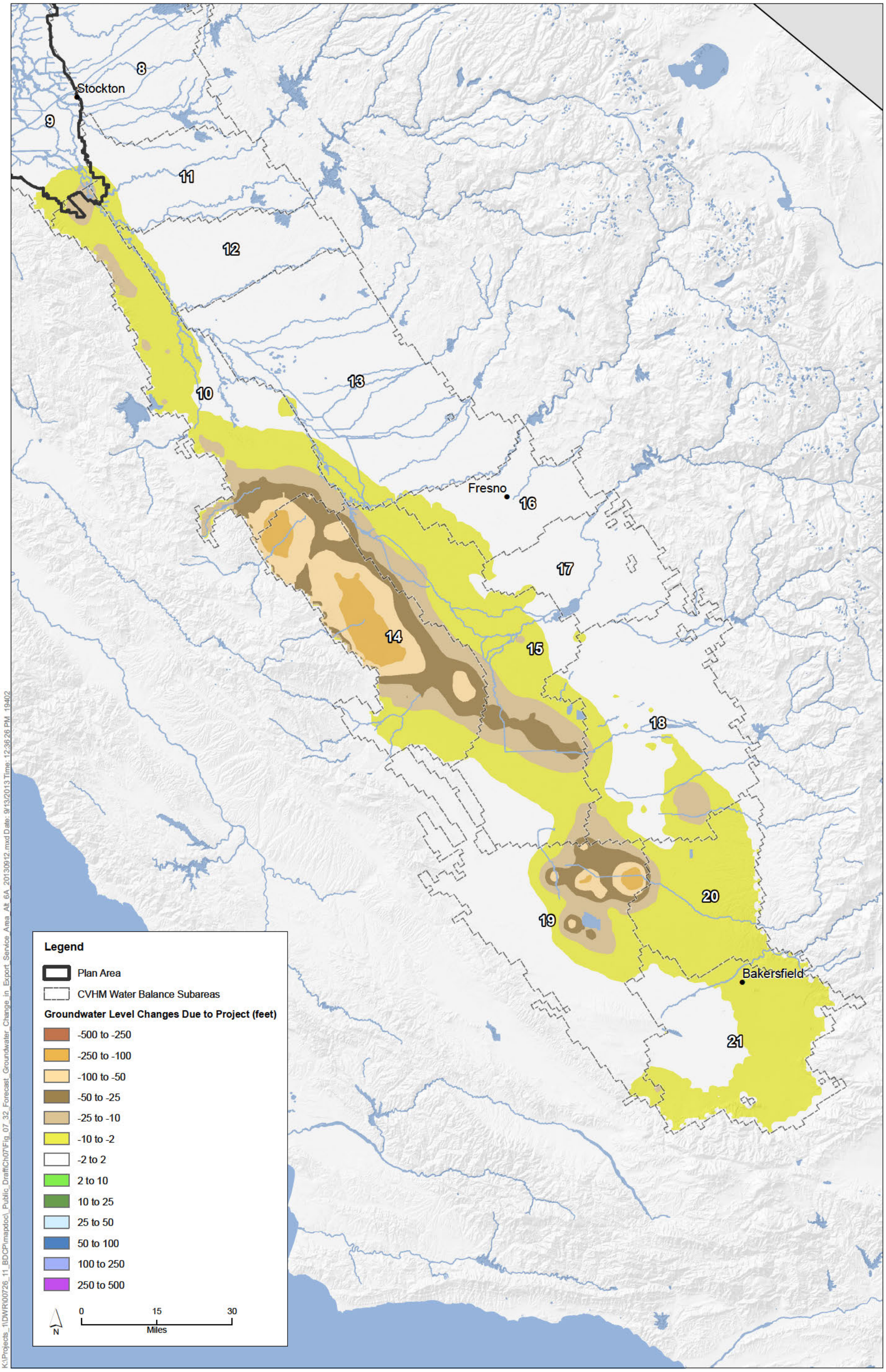
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M HILL 2012

Figure 7-30
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 5 Compared to the No Action Alternative



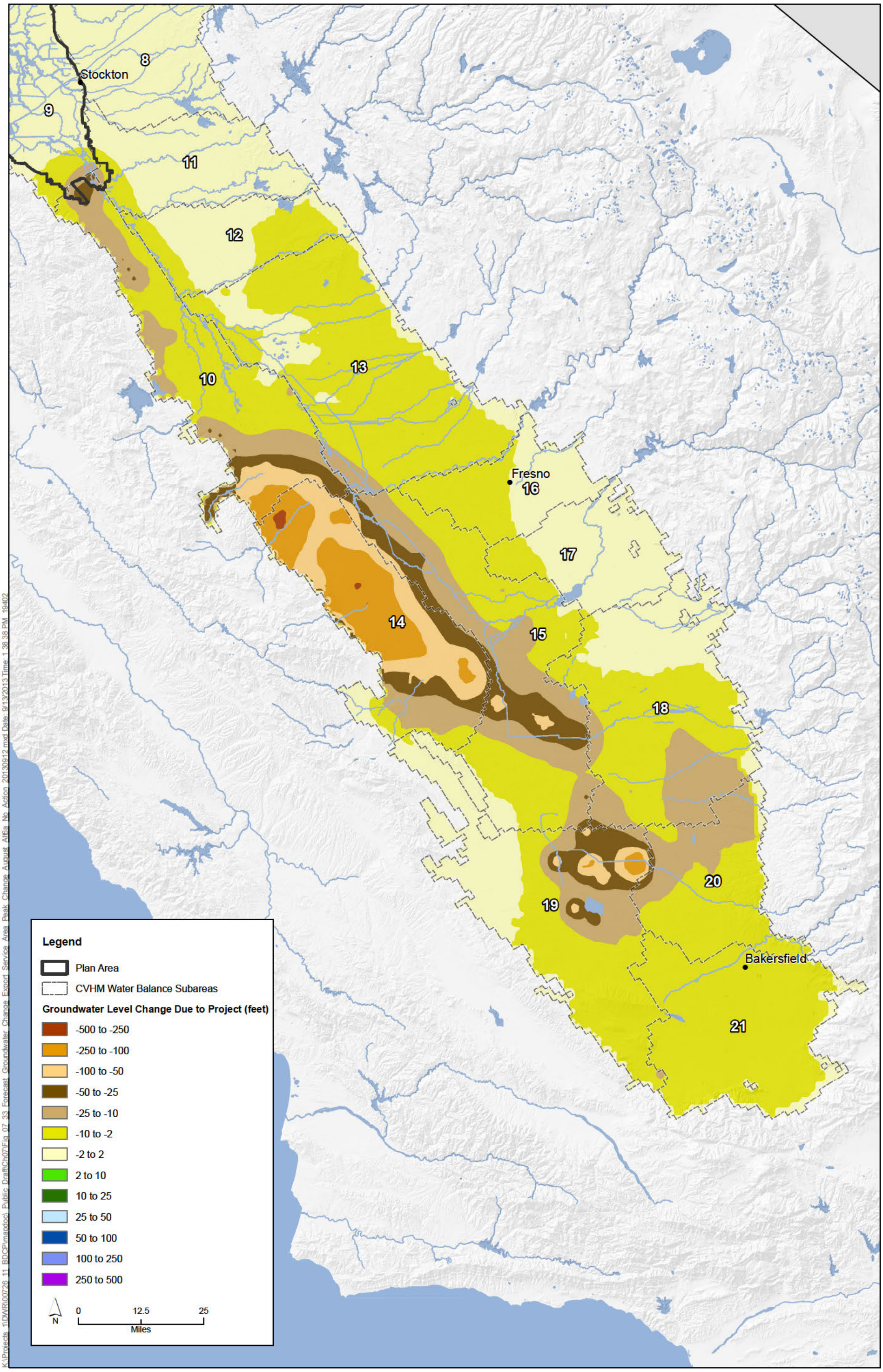
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M Hill 2012

Figure 7-31
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 5 Compared to Existing Conditions



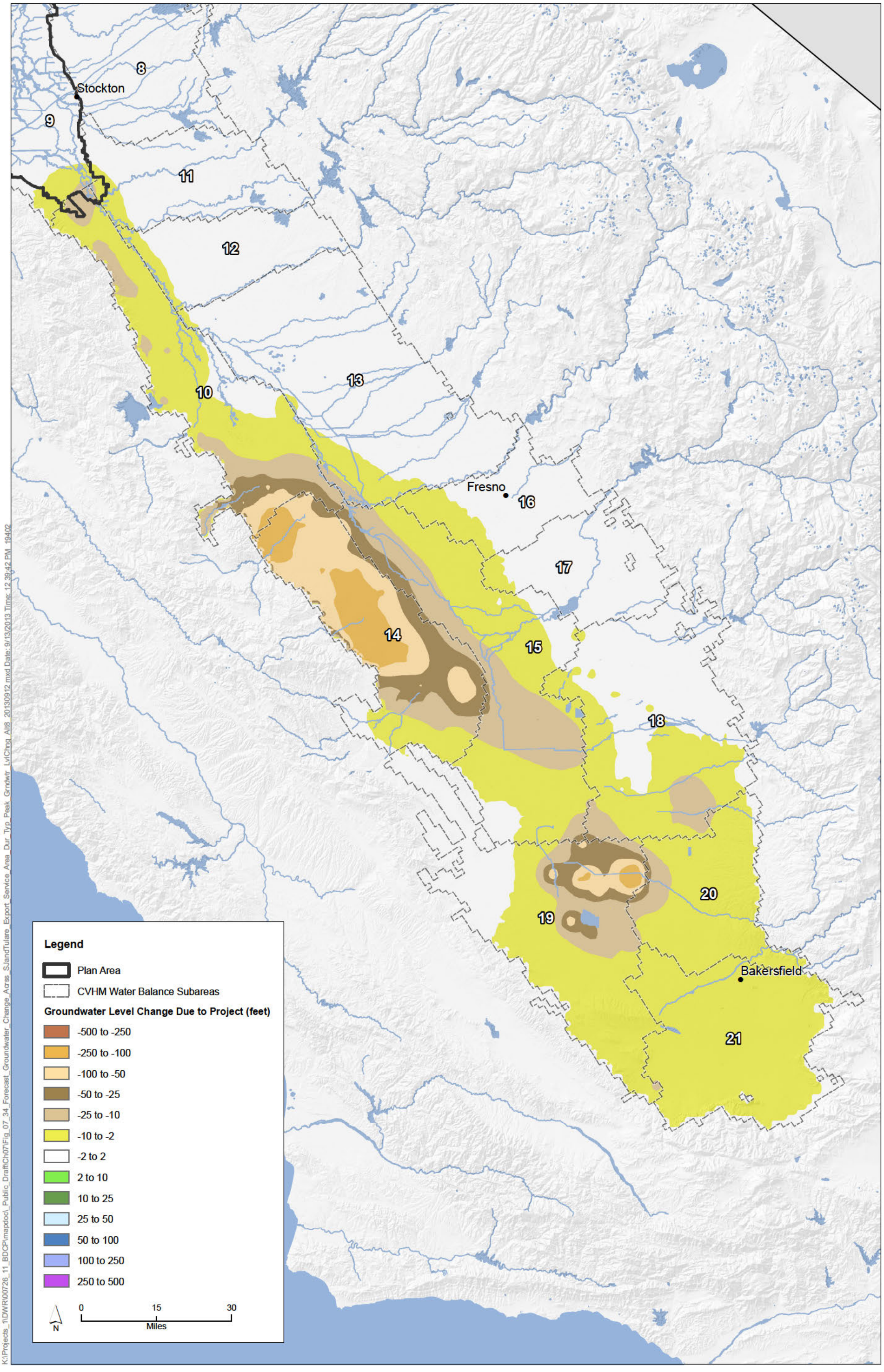
Sources: Plan Area, ICF 2012;
Groundwater-Level Impacts, CH2M HILL 2010

Figure 7-32
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 6A Compared to the No Action Alternative



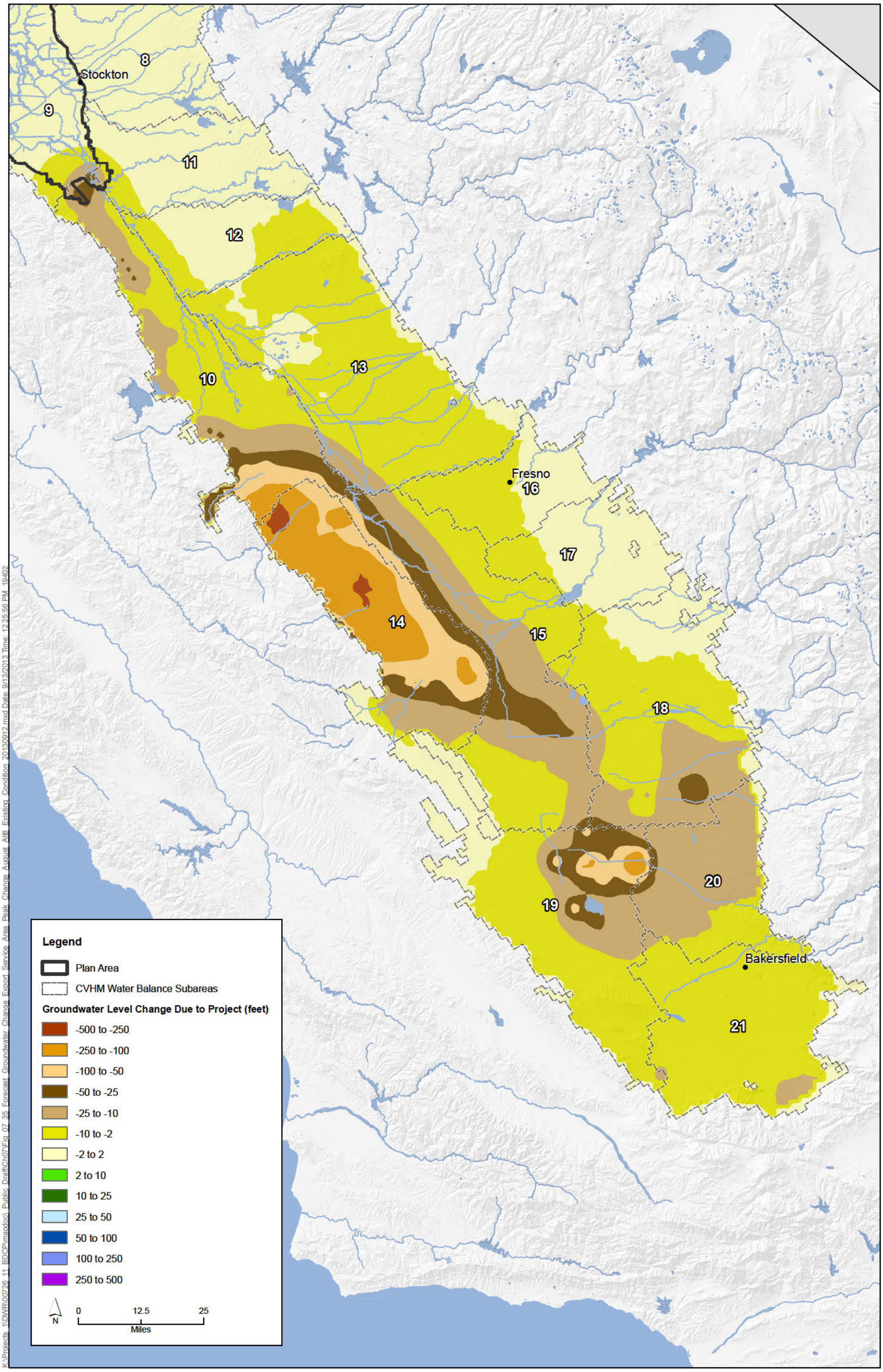
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M Hill 2012

Figure 7-33
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 6A Compared to Existing Conditions



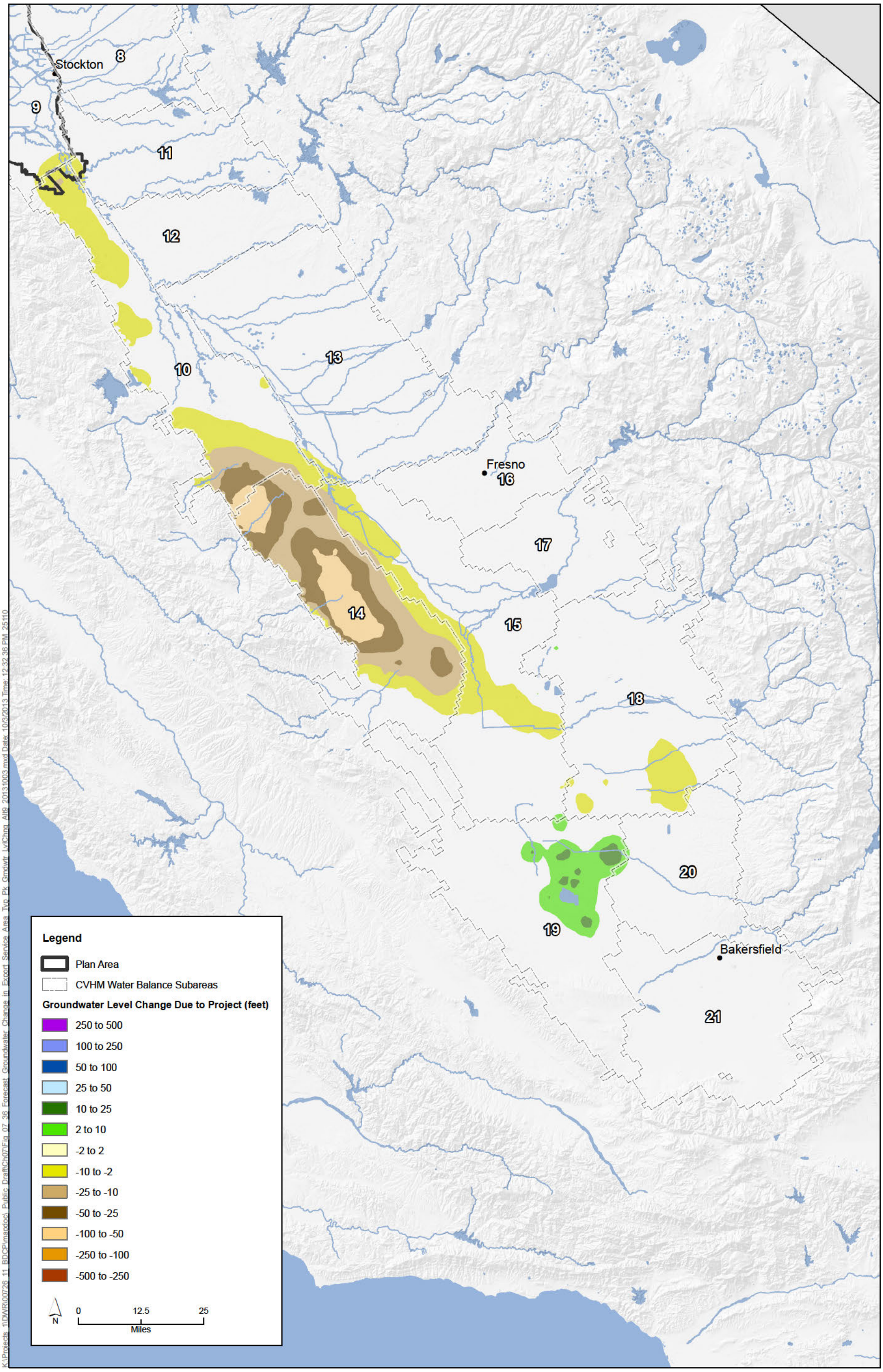
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M HILL 2012

Figure 7-34
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 8 Compared to the No Action Alternative



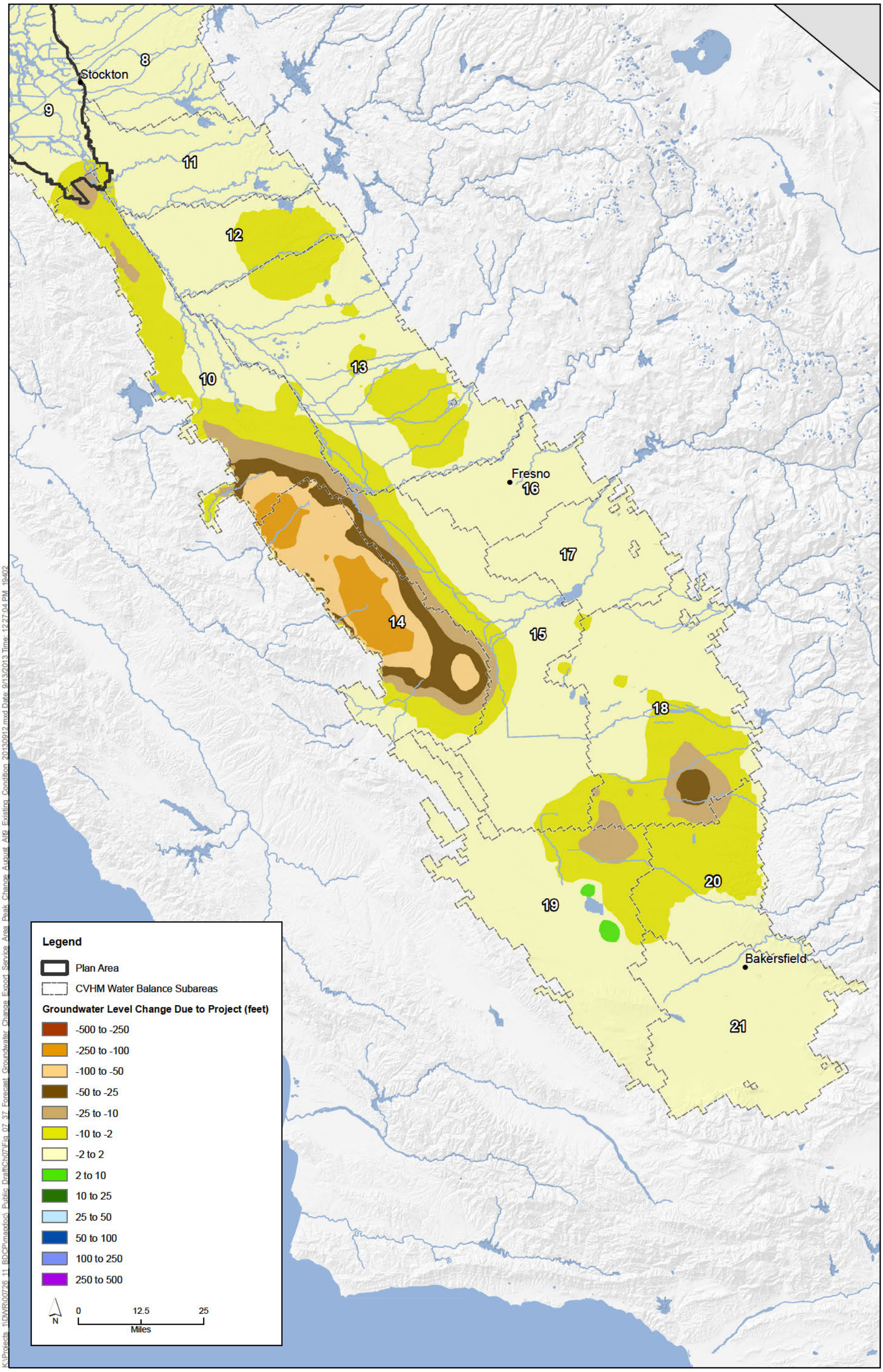
Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M Hill 2012

Figure 7-35
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 8 Compared to Existing Conditions



Sources: Plan Area, ICF 2012
Groundwater-level Impacts, CH2M Hill 2010

Figure 7-36
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 9 Compared to the No Action Alternative



Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M Hill 2012

Figure 7-37
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 9 Compared to Existing Conditions