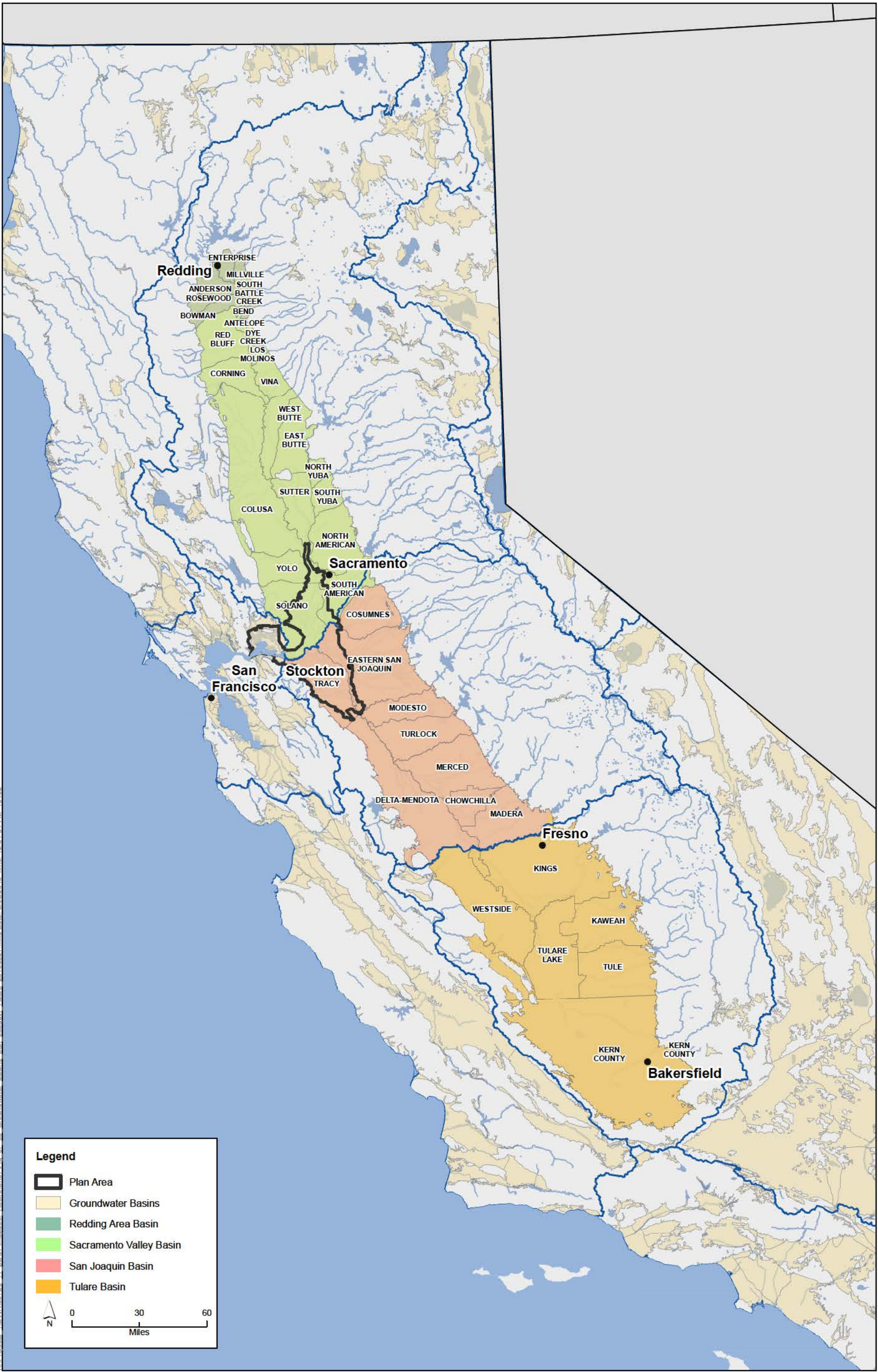




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Sources: Plan Area, ICF 2012; Basins, DWR 2010

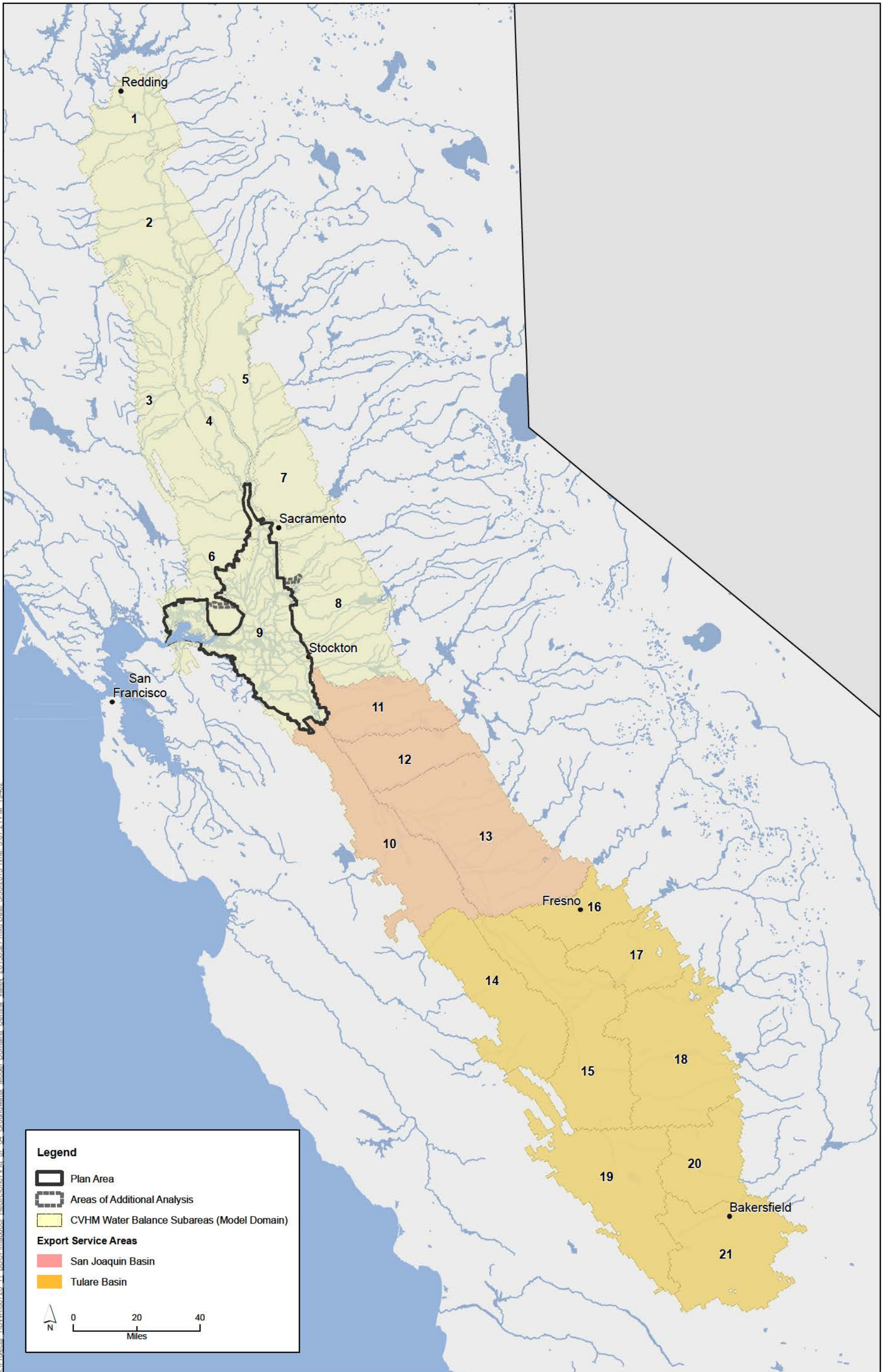
Figure 7-1
California Groundwater Basins



K:\Projects\1\DW\00726_11_BDC\Plan\MapDoc\Recirc\Ch07\Fig_07_03_Groundwater_Basins_San_Joaquin_Tulare_20150327.mxd Date: 3/30/2015 Time: 12:51:54 PM 19402

Sources: Plan Area, ICF 2012; Basins, DWR 2015.

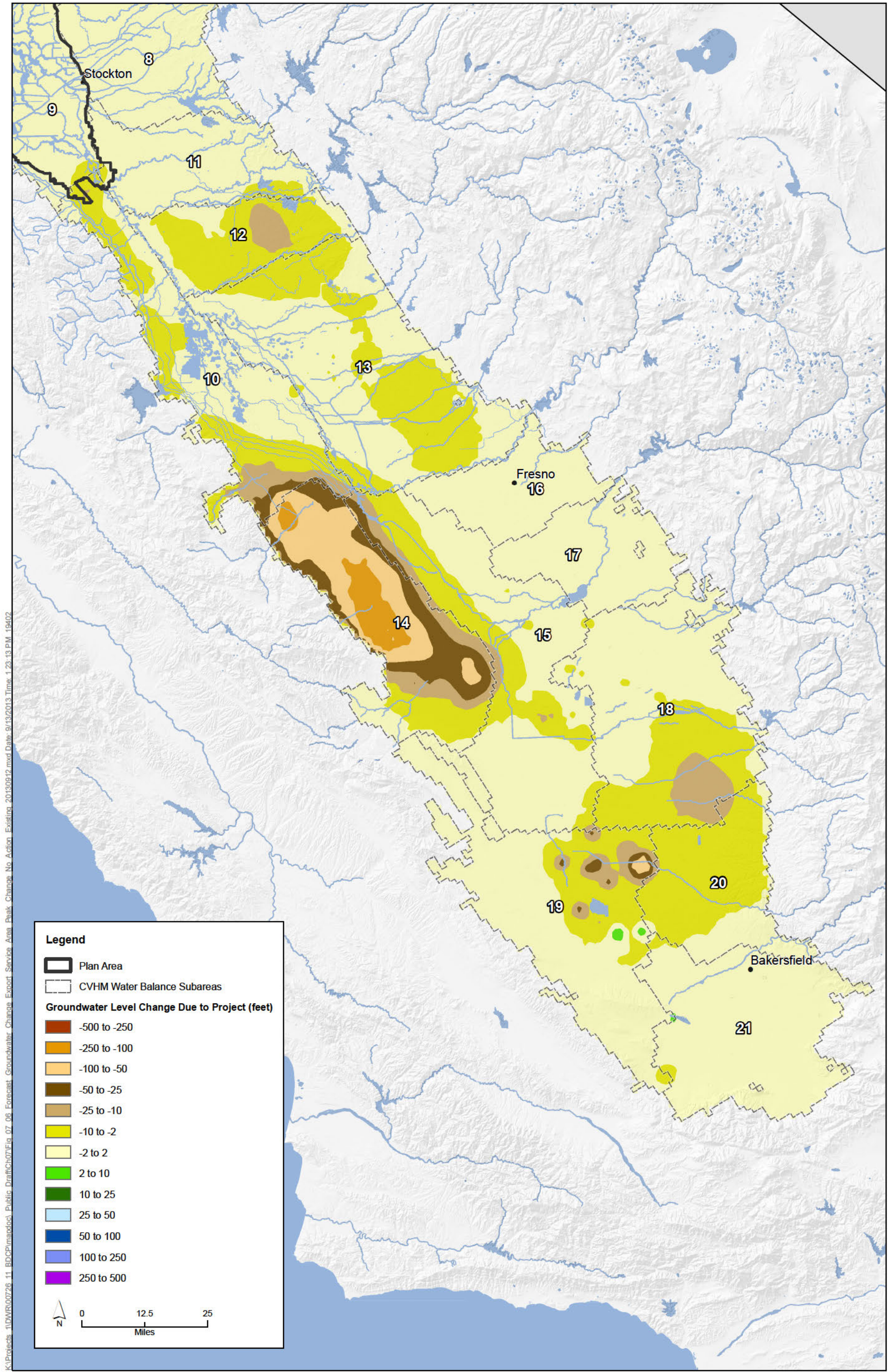
Figure 7-3
Groundwater Subbasins Underlying the Central Valley



K:\Projects\1\DW\00726_11_BDC\PlanArea\04_Groundwater_Model_Domains_Central_Valley_20150327.mxd Date: 3/30/2015 Time: 3:07:21 PM 19402

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

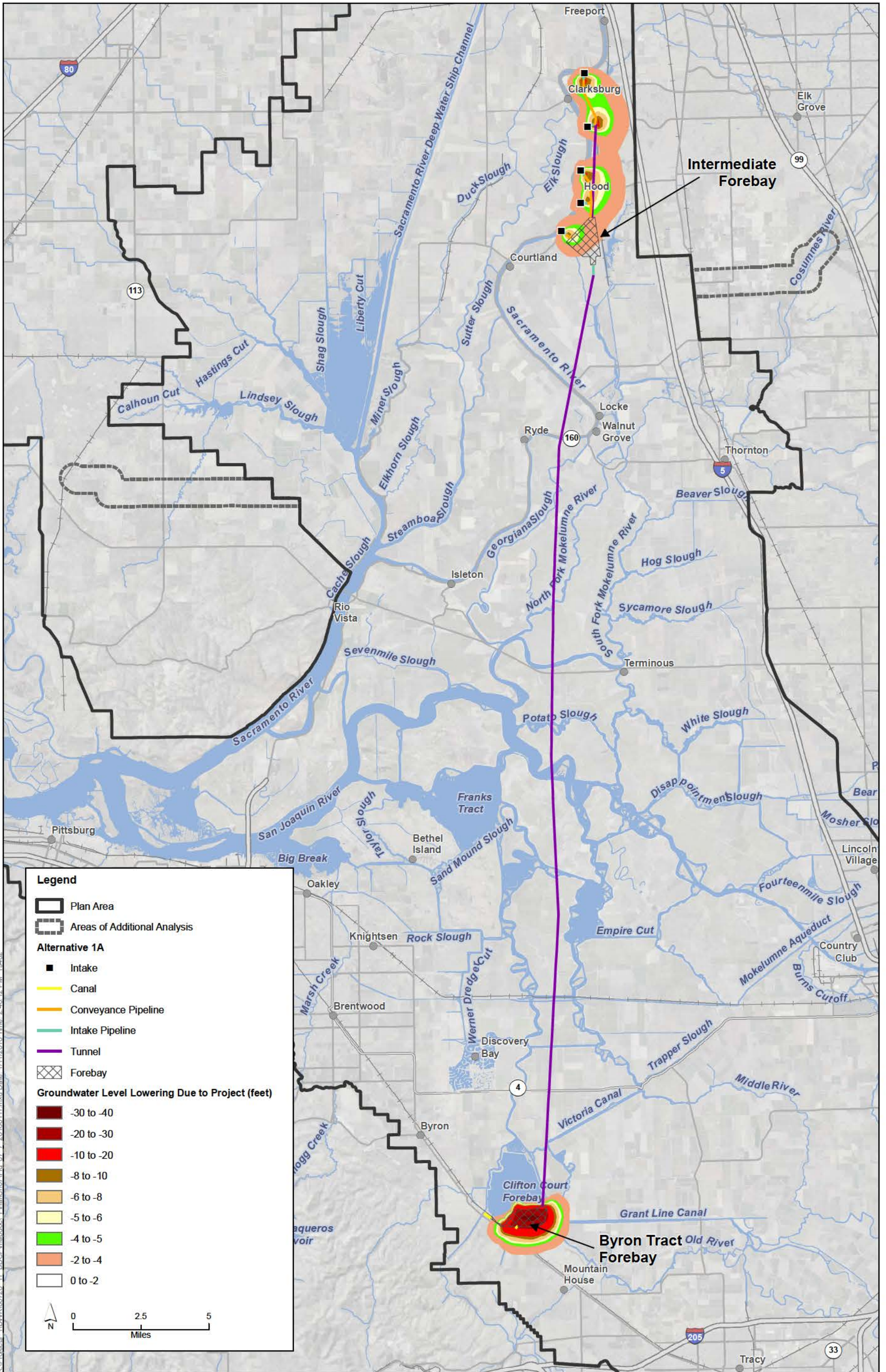
Figure 7-4
Groundwater Model Domain in the Central Valley



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

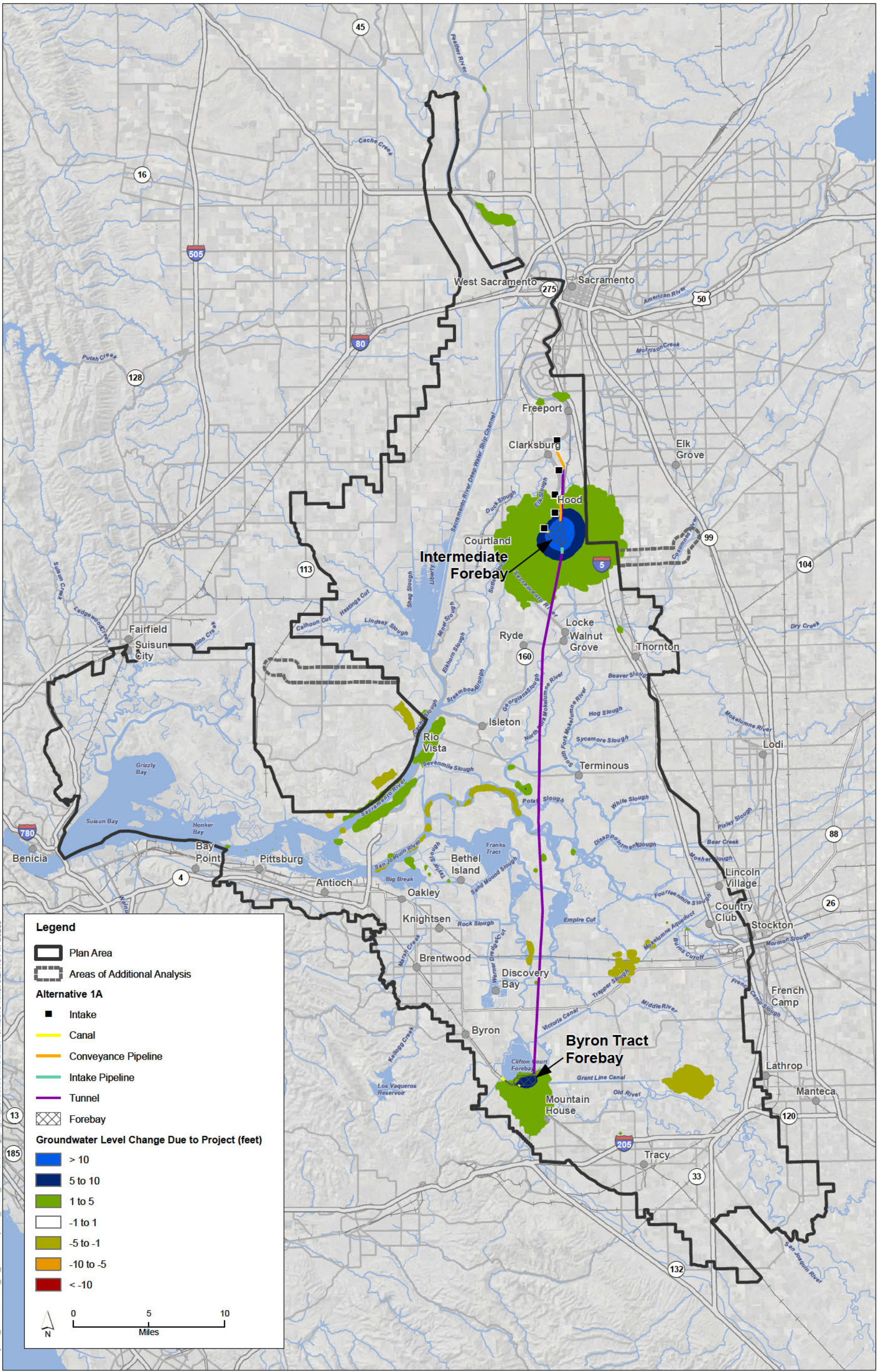
Figure 7-6
Typical Forecasted Peak Groundwater Level Changes in the San Joaquin and Tulare Export Service Areas for the No Action Alternative as Compared to Existing Conditions



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

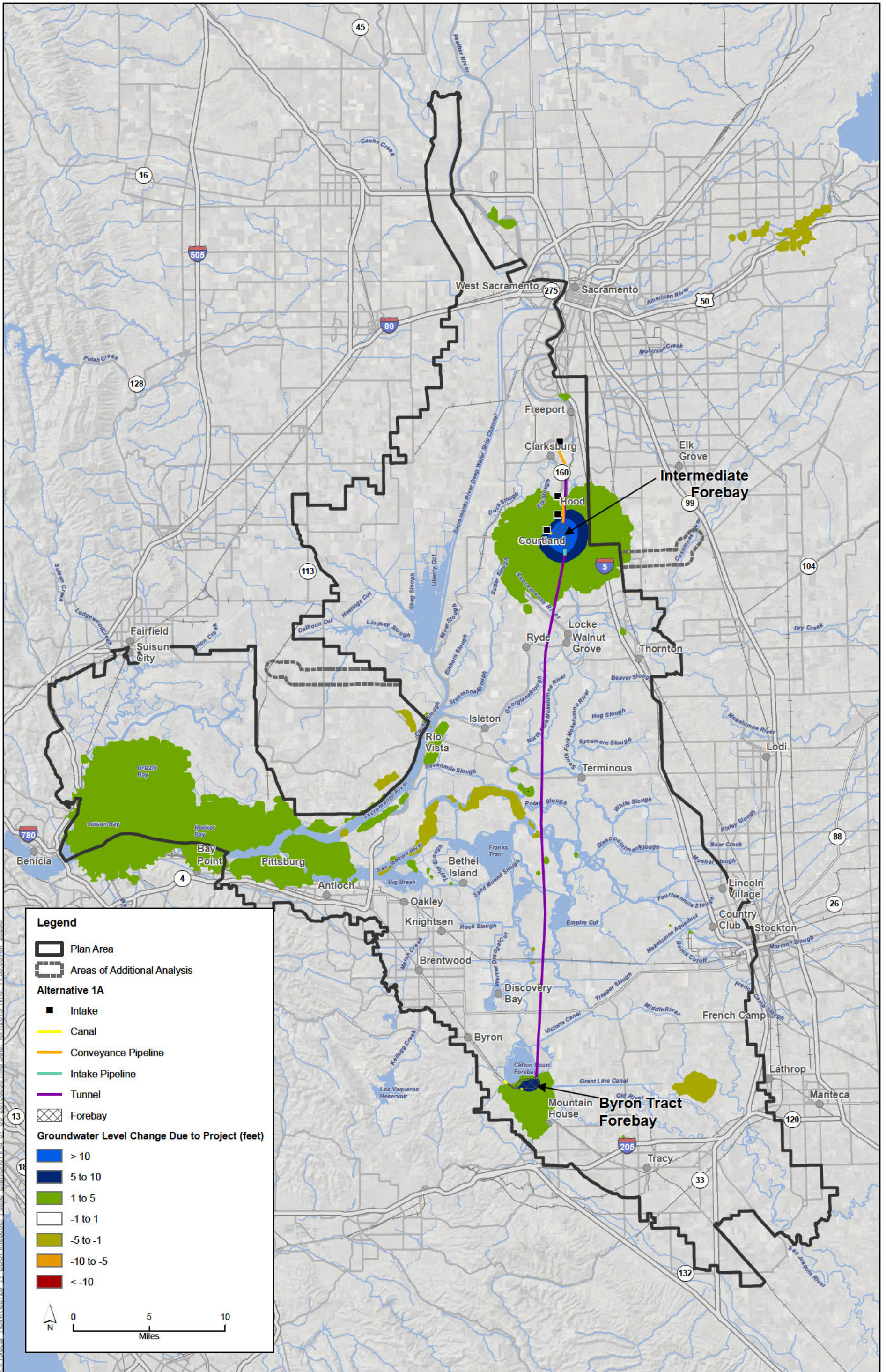
Forecasted Groundwater Level Lowering From Construction Dewatering for Alternative 1A



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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 2012

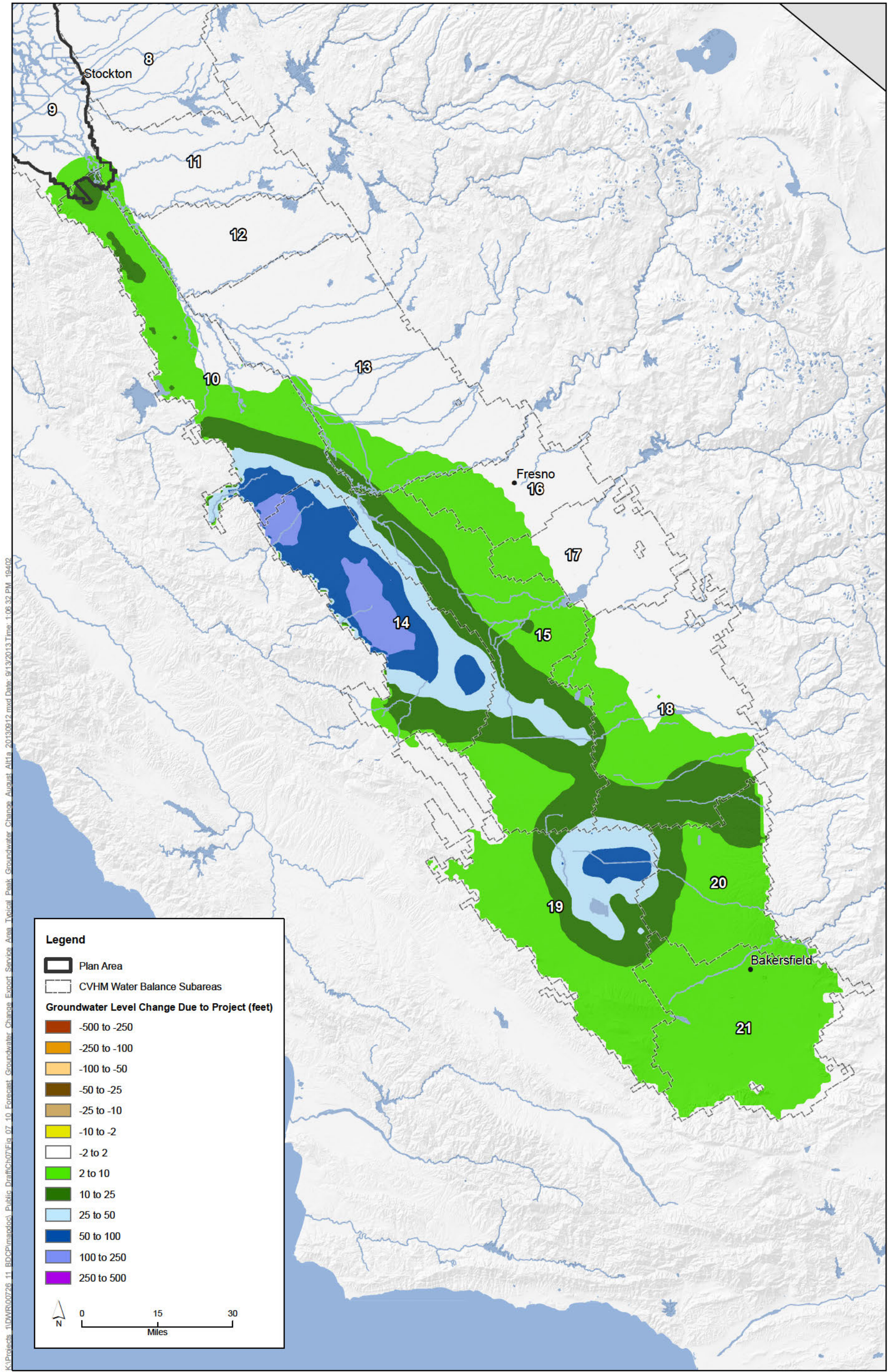
Figure 7-8
Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1A Compared to the No Action Alternative



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

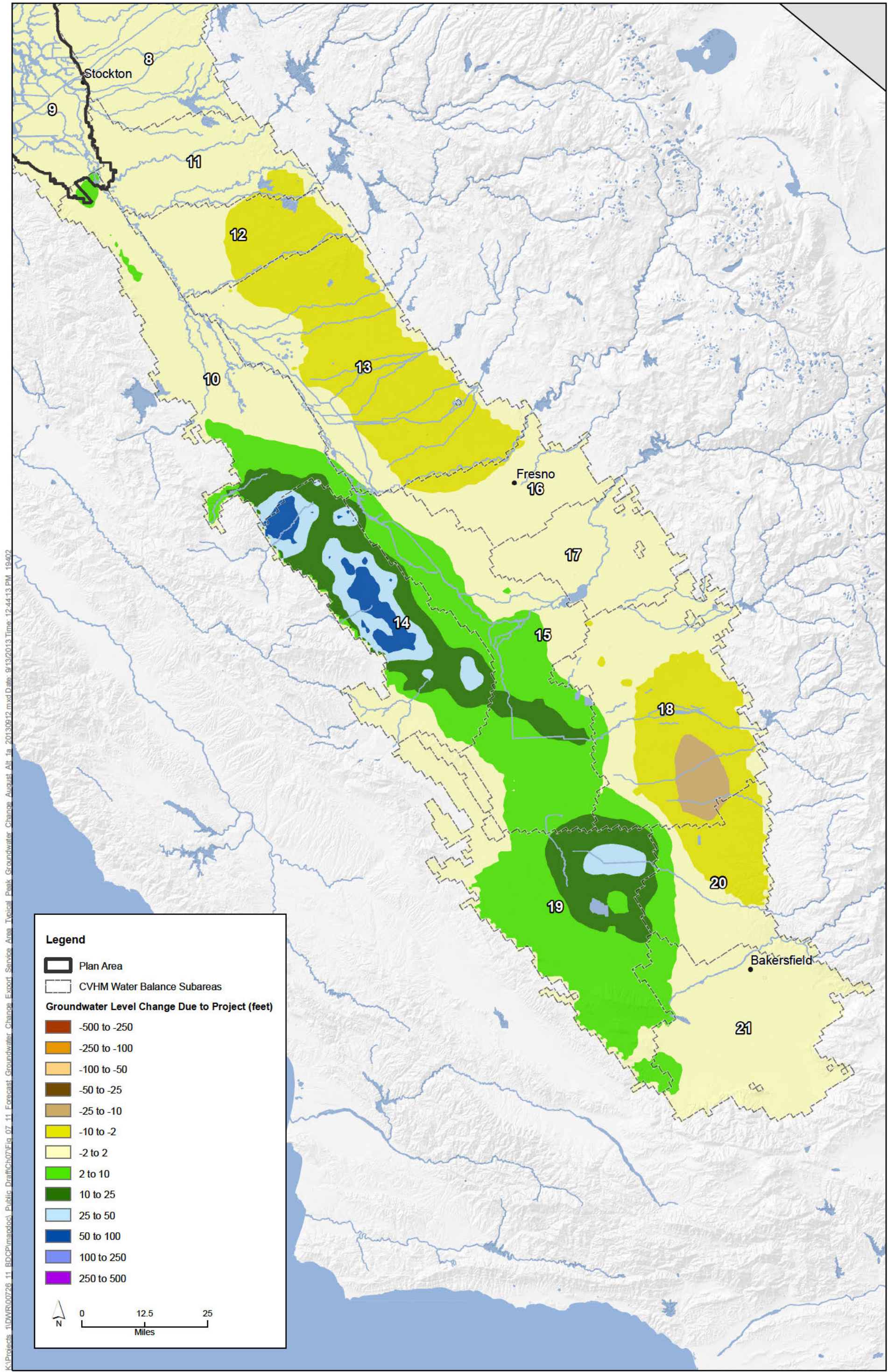
Forecasted Groundwater Level Changes in the Delta During a Typical Peak Groundwater Level Change Condition for Alternative 1A Compared to Existing Conditions



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

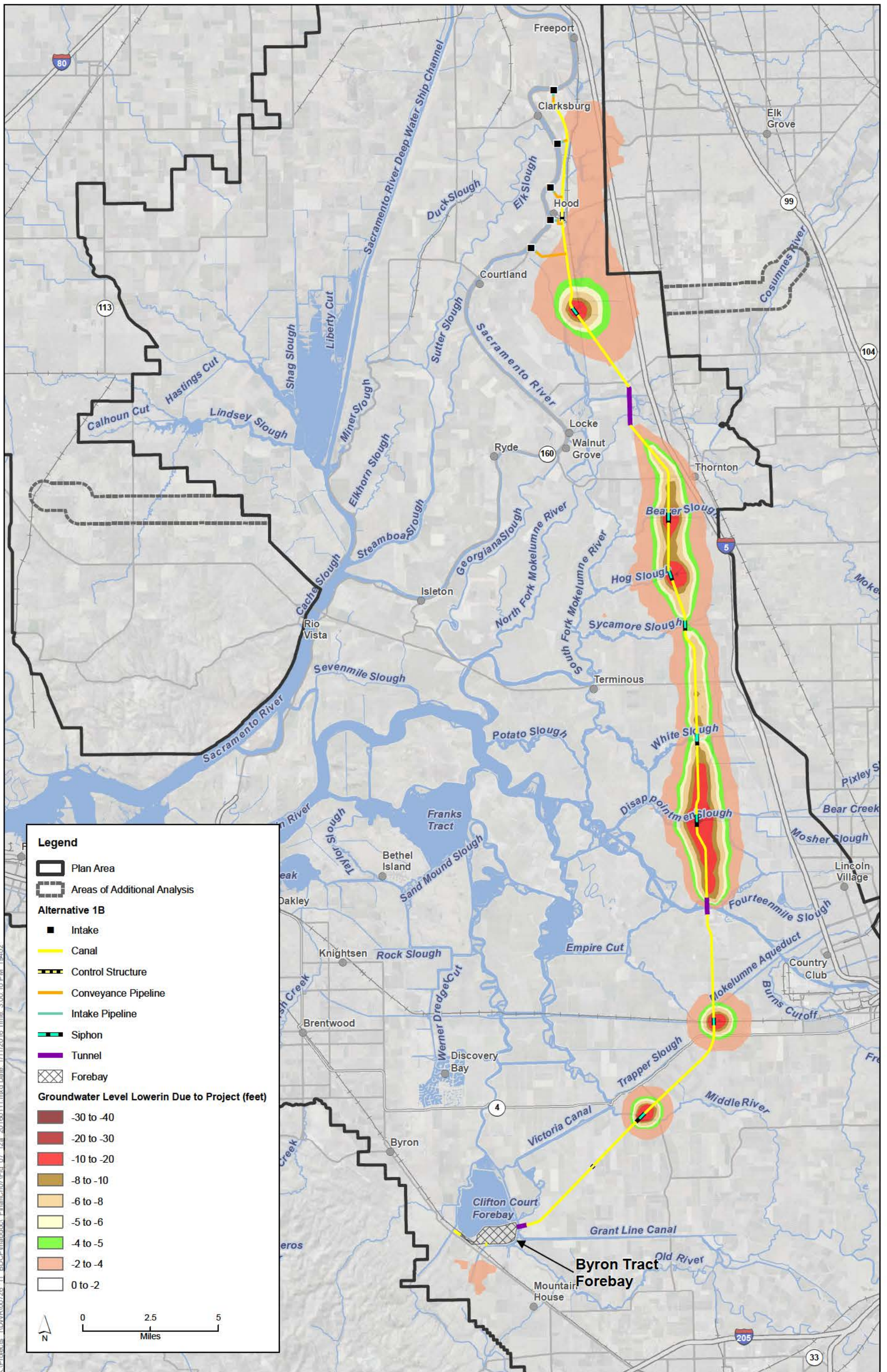
Figure 7-10
Forecasted Groundwater Level Changes in the San Joaquin and Tulare
Export Service Area During a Typical Peak Groundwater Level Change
Condition in August for Alternative 1A Compared to the No Action Alternative



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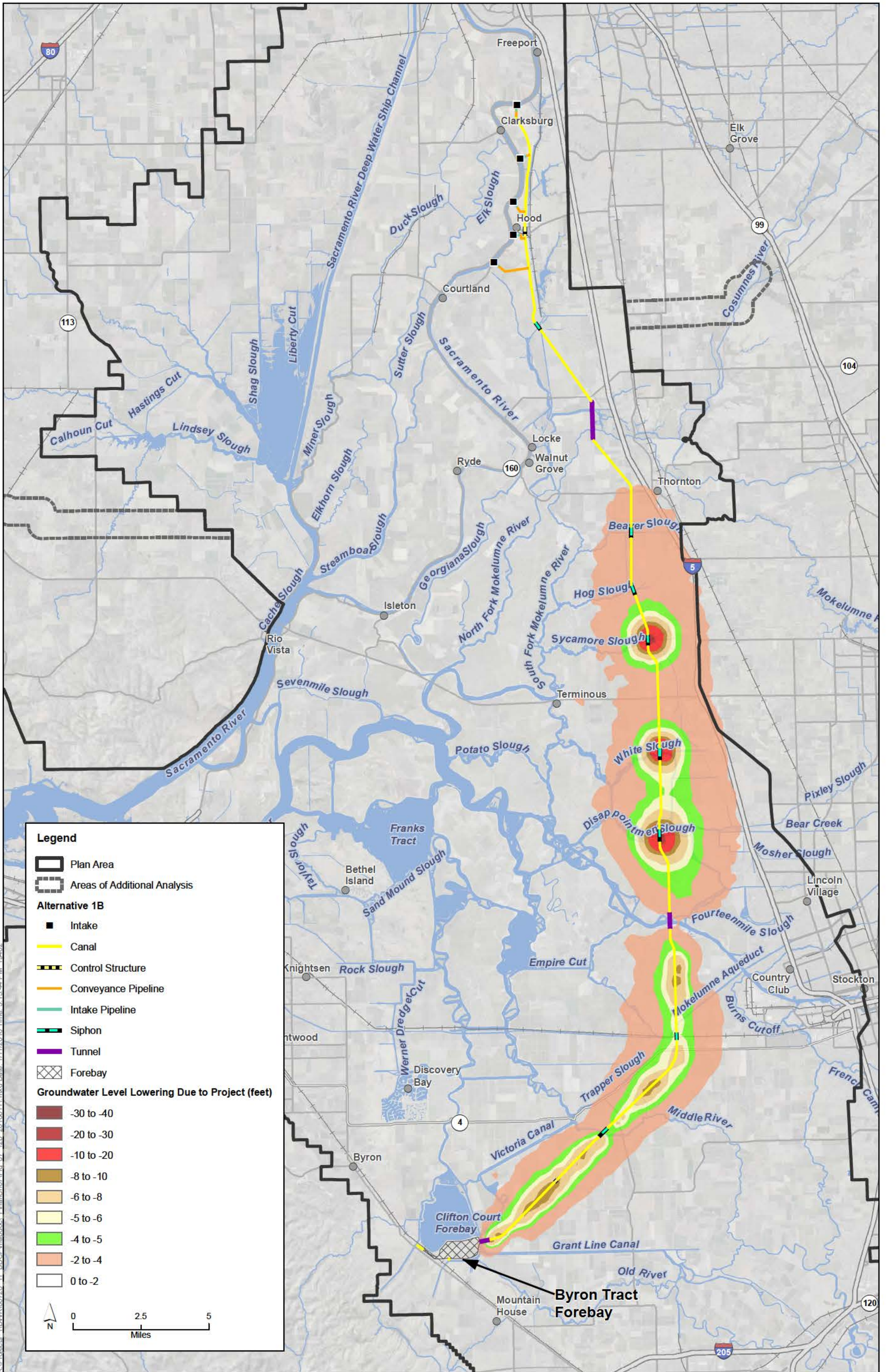
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Groundwater-level Impacts, CH2M Hill 2012

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



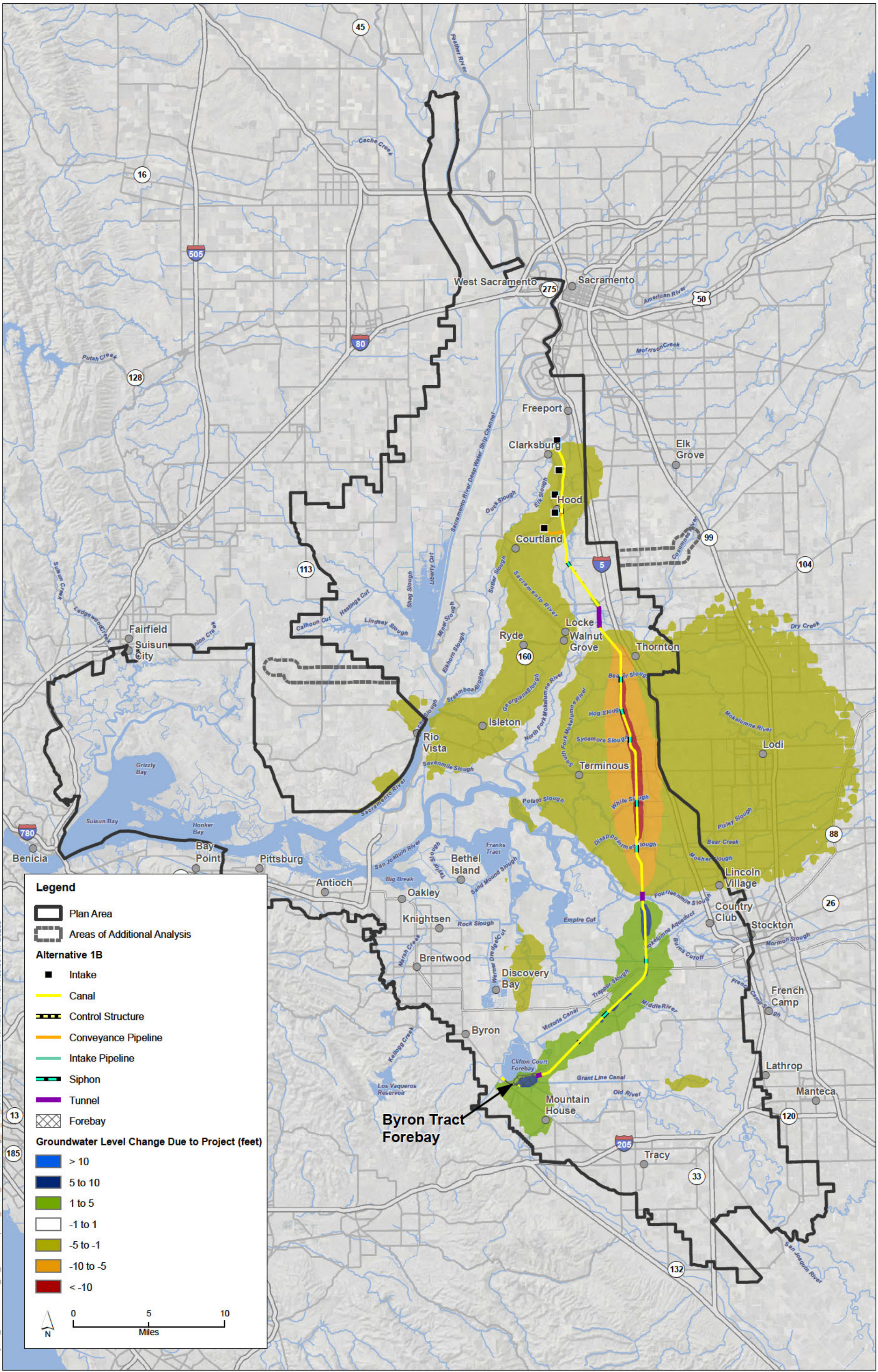
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

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



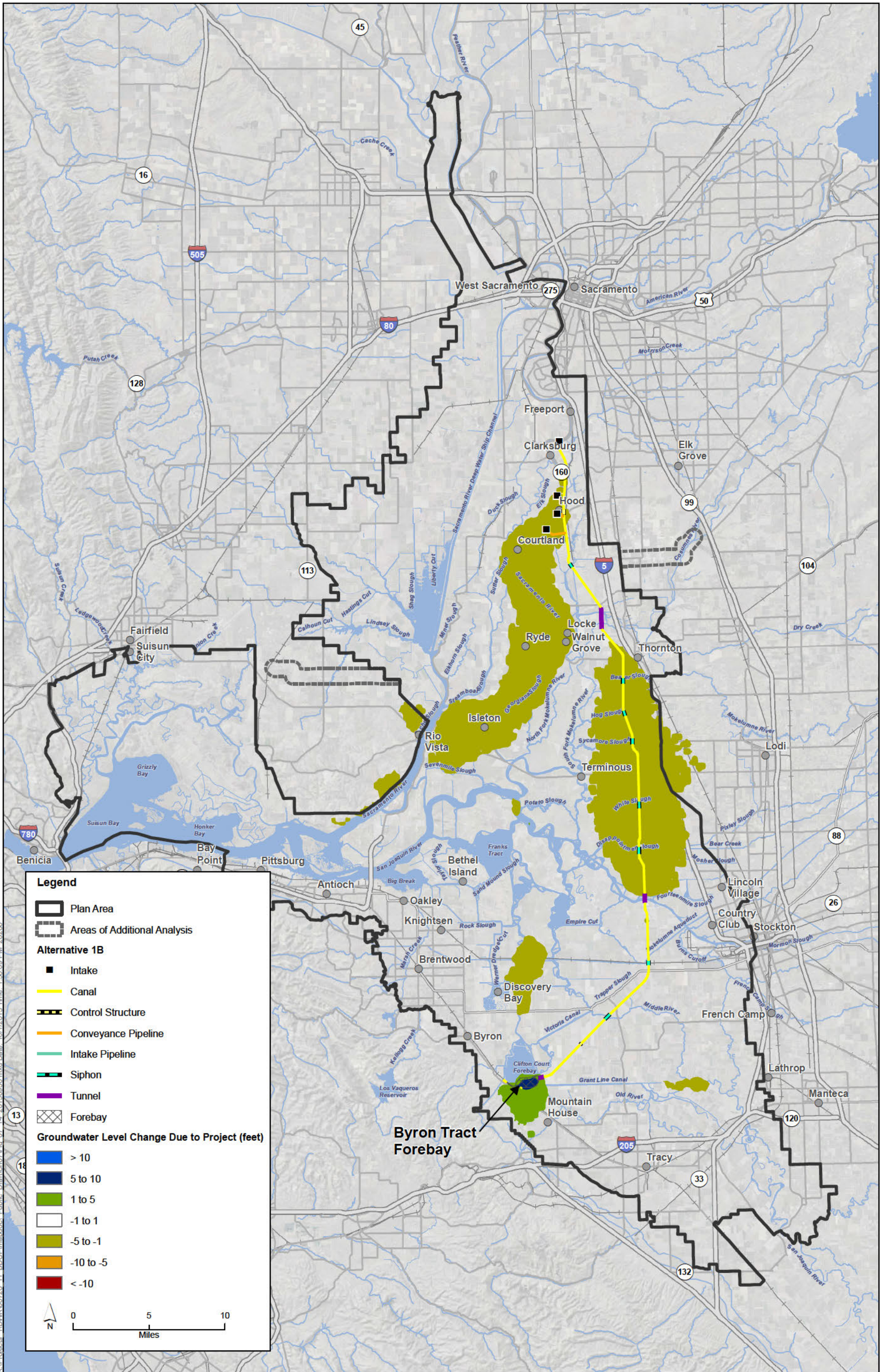
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010.

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



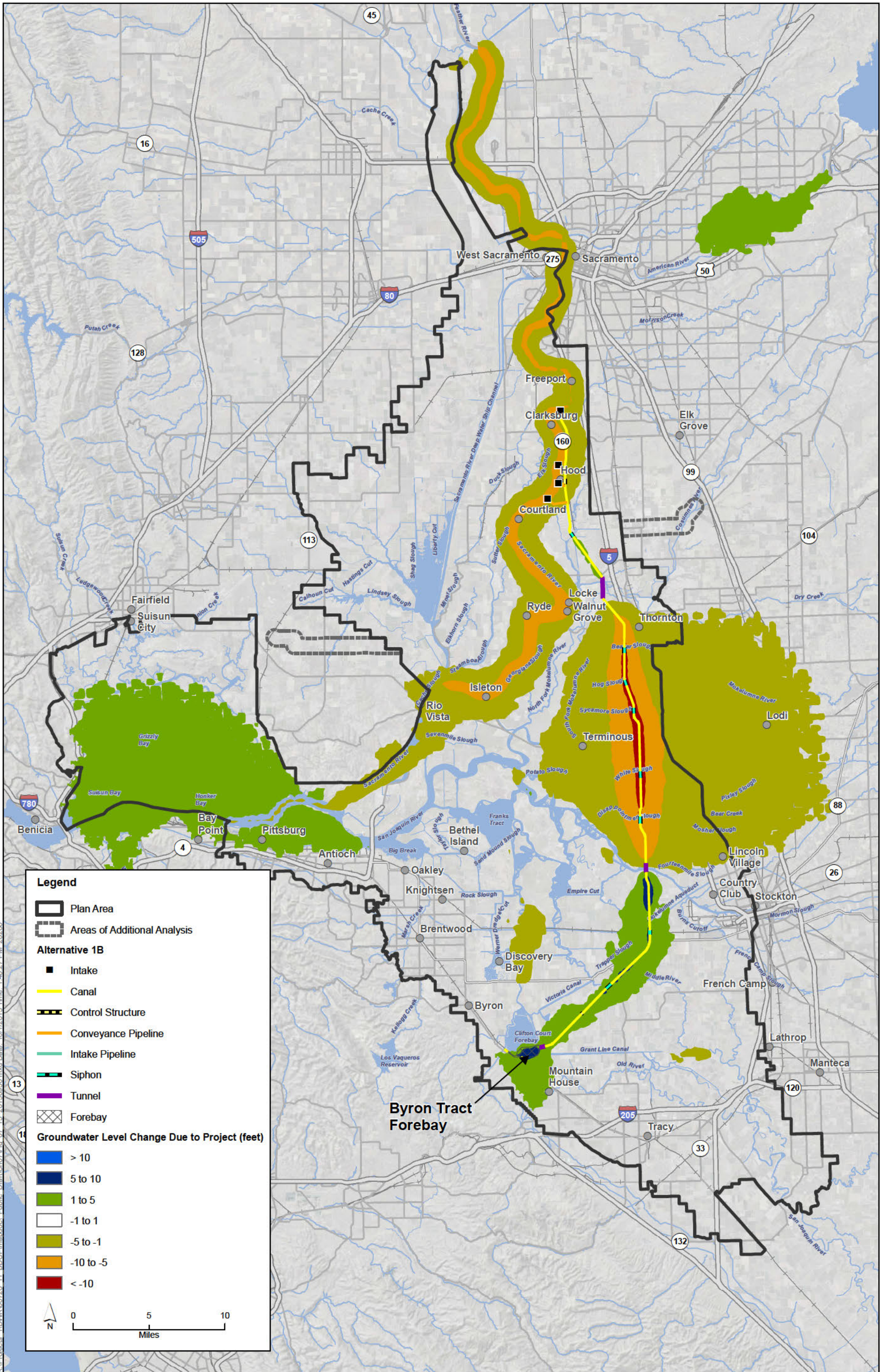
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

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



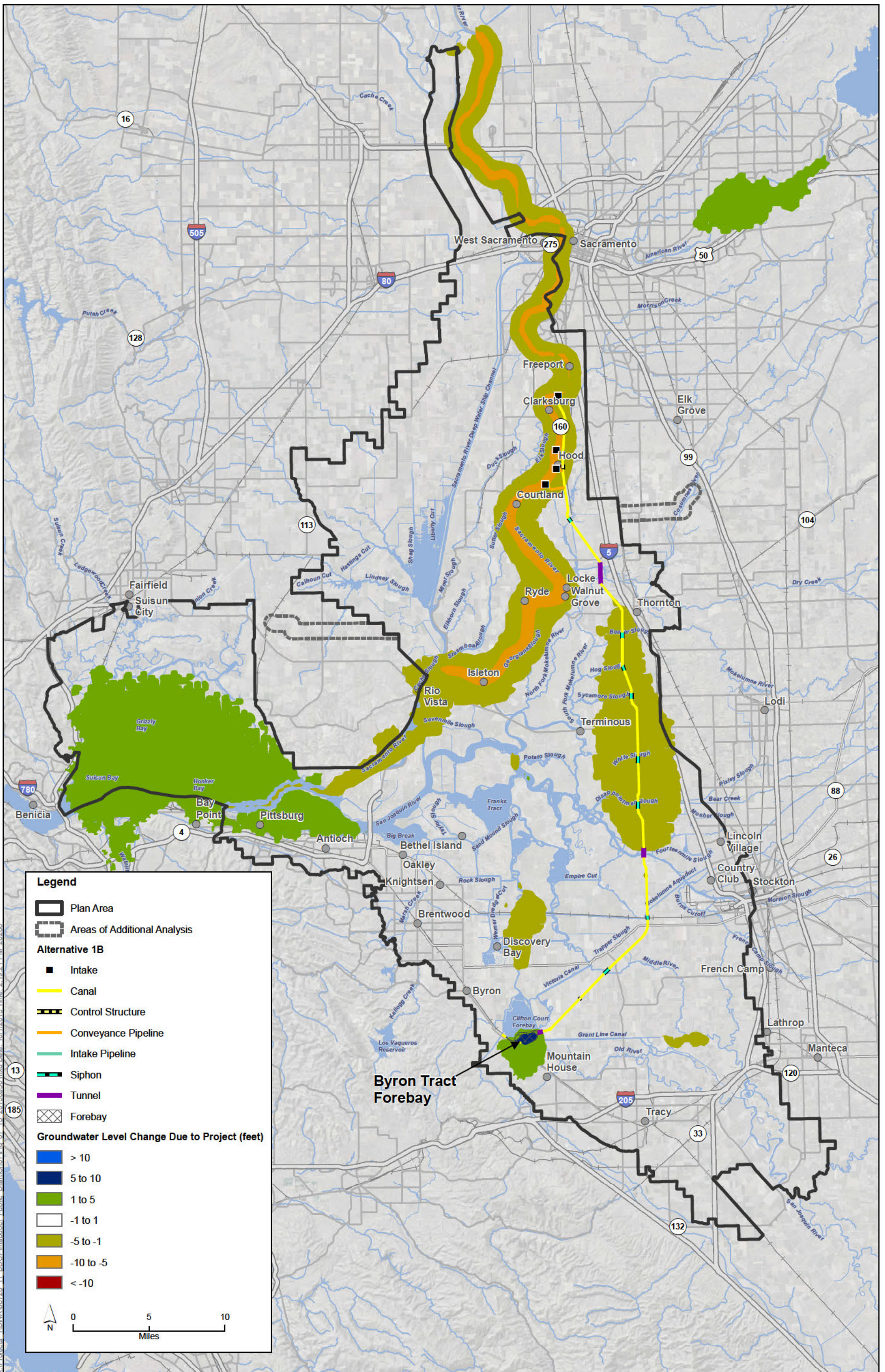
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

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



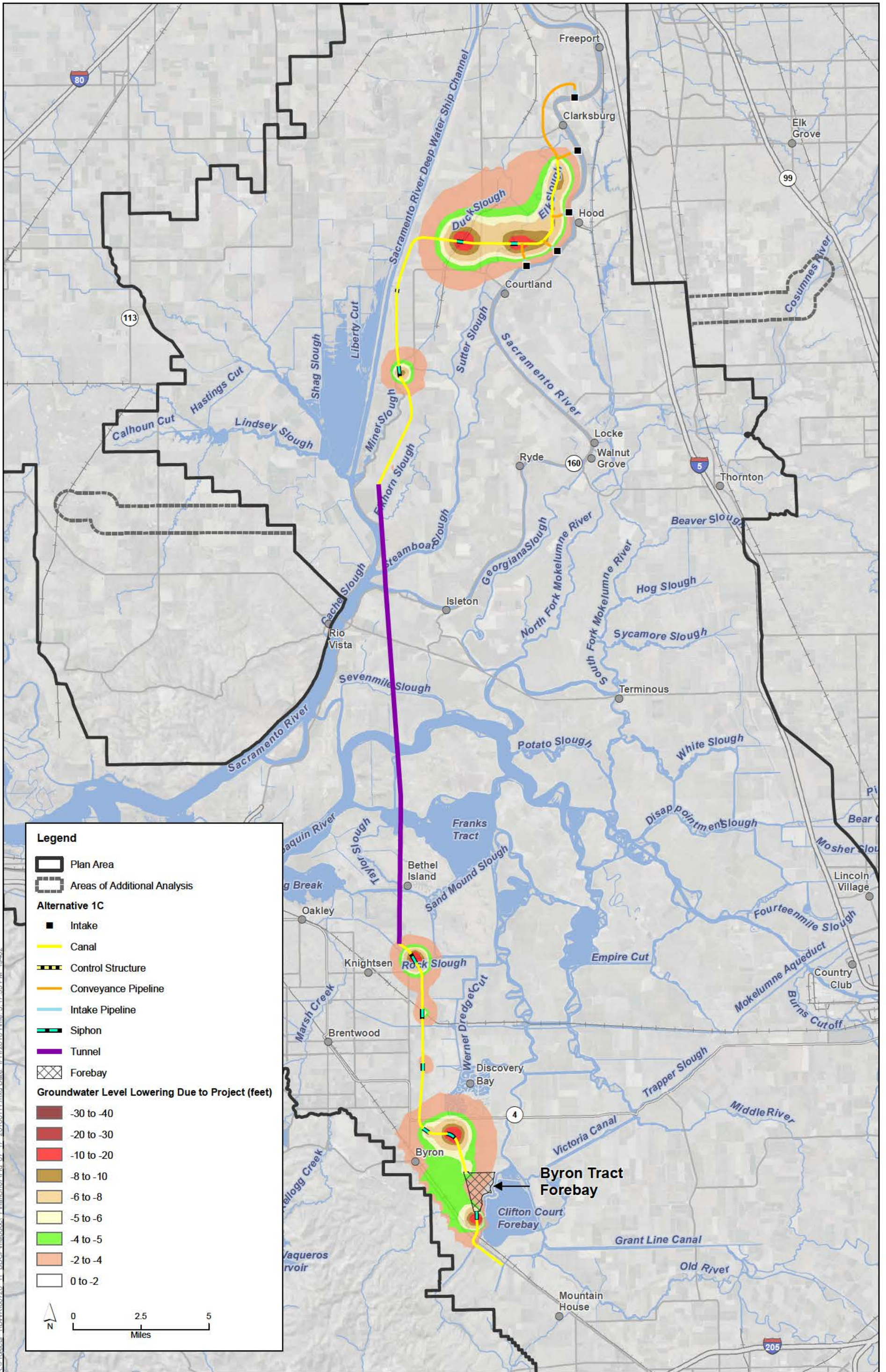
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

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



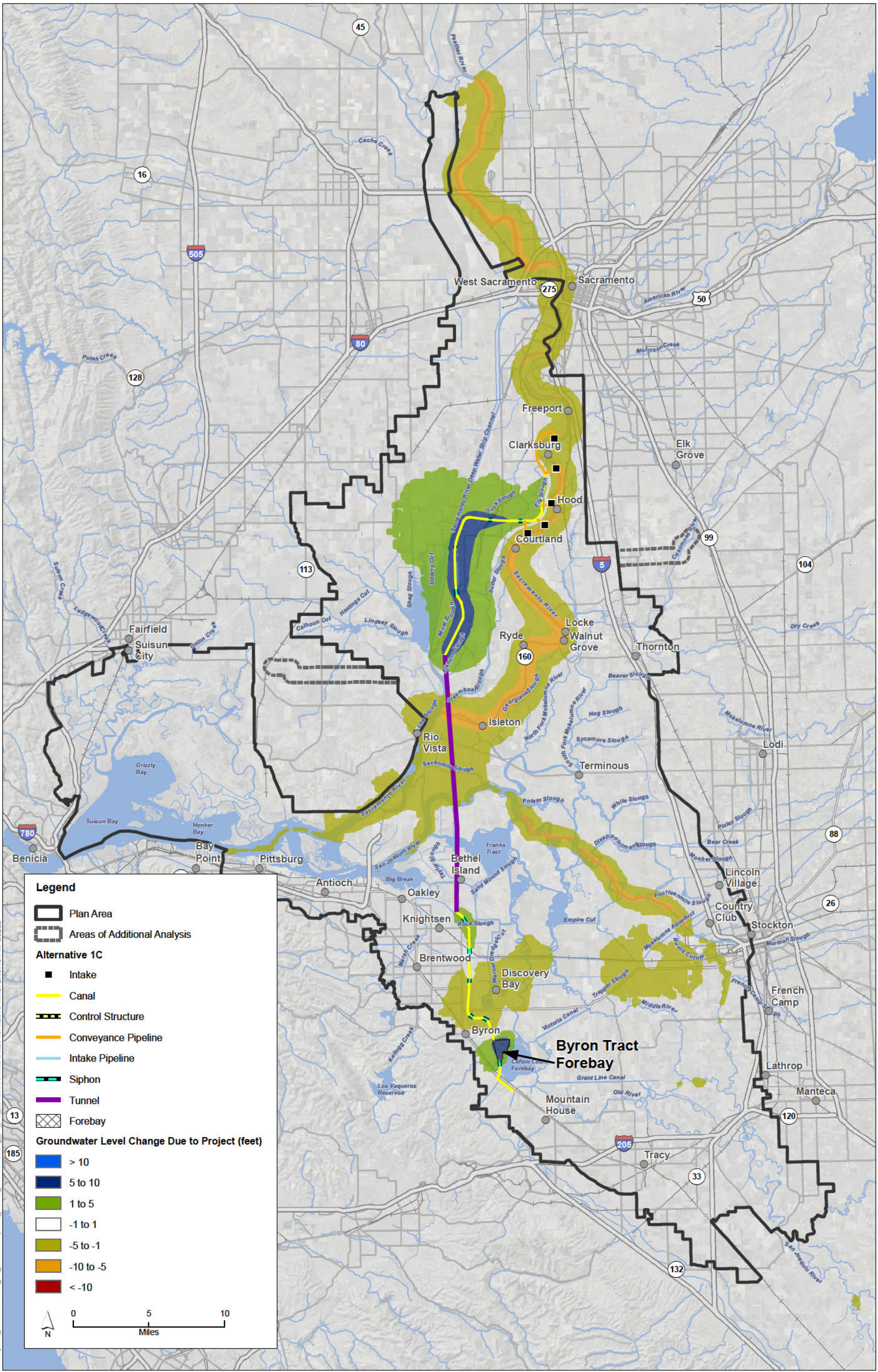
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010;

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



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

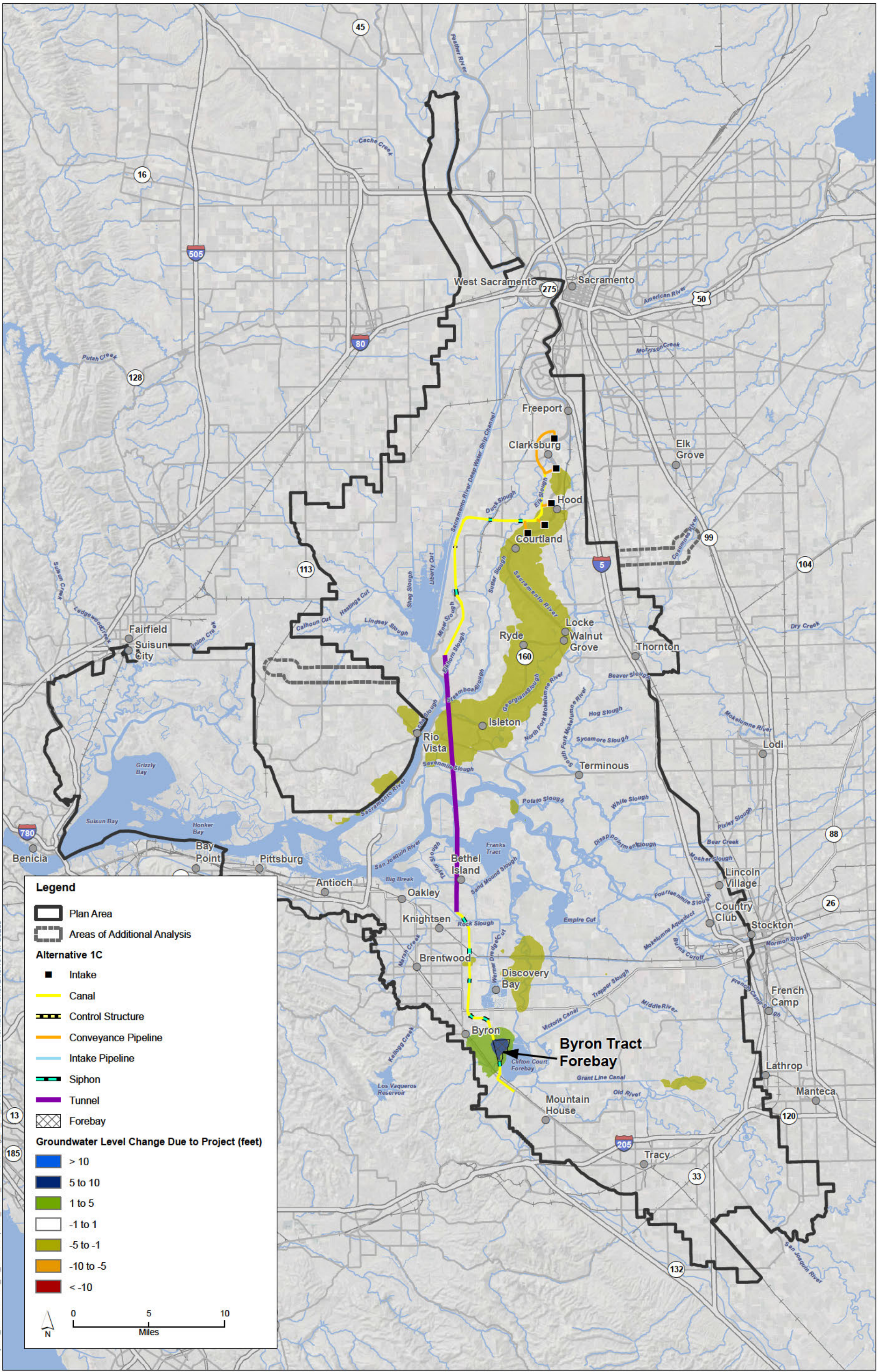
Figure 7-17
Forecasted Groundwater Level Lowering
From Construction Dewatering — Alternative 1C



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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

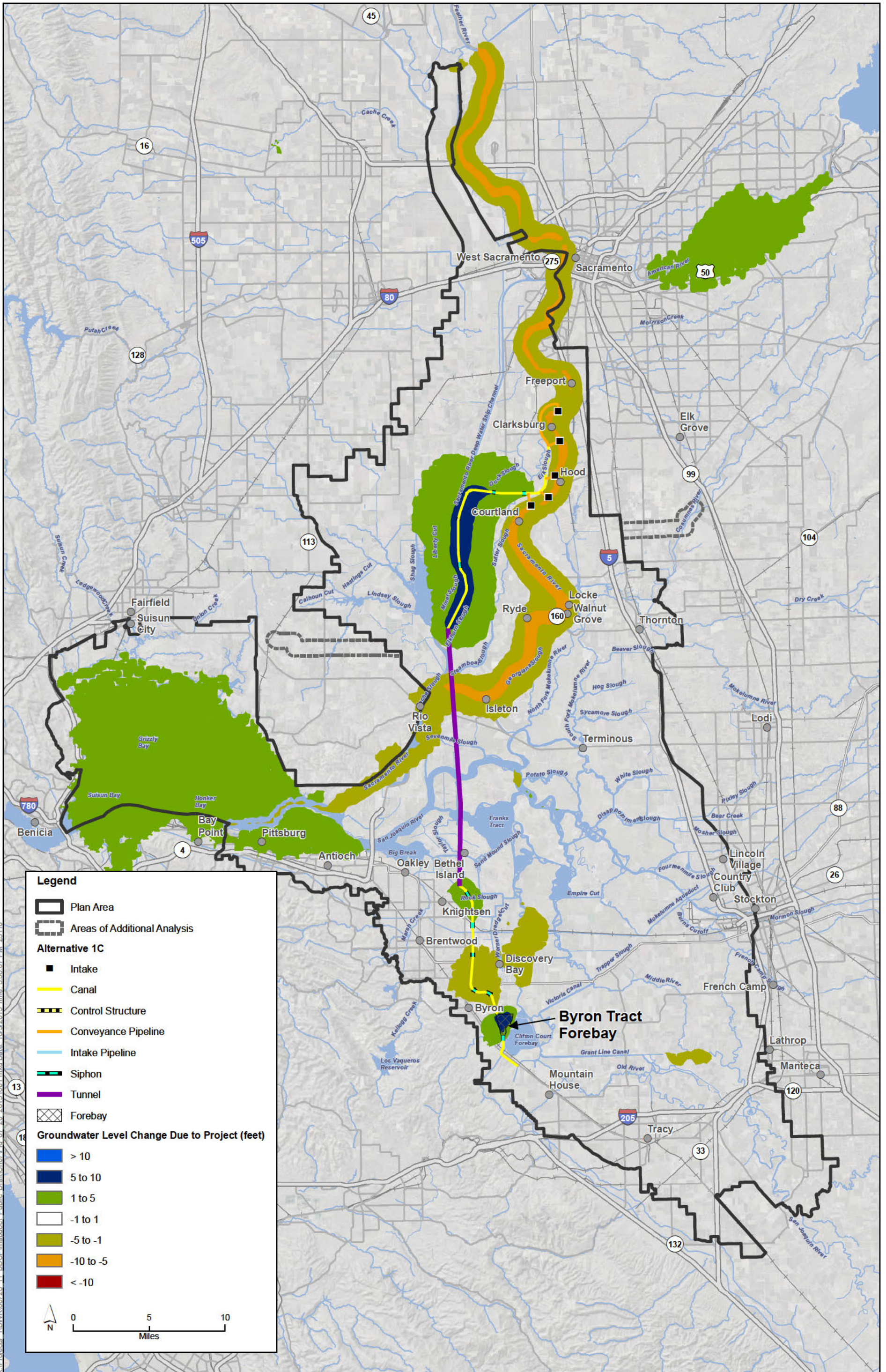
Figure 7-18
Forecasted Groundwater Level Changes in the Delta During a Typical Peak
Groundwater Level Change Condition for Alternative 1C Compared to the No Action Alternative—Unlined Canal



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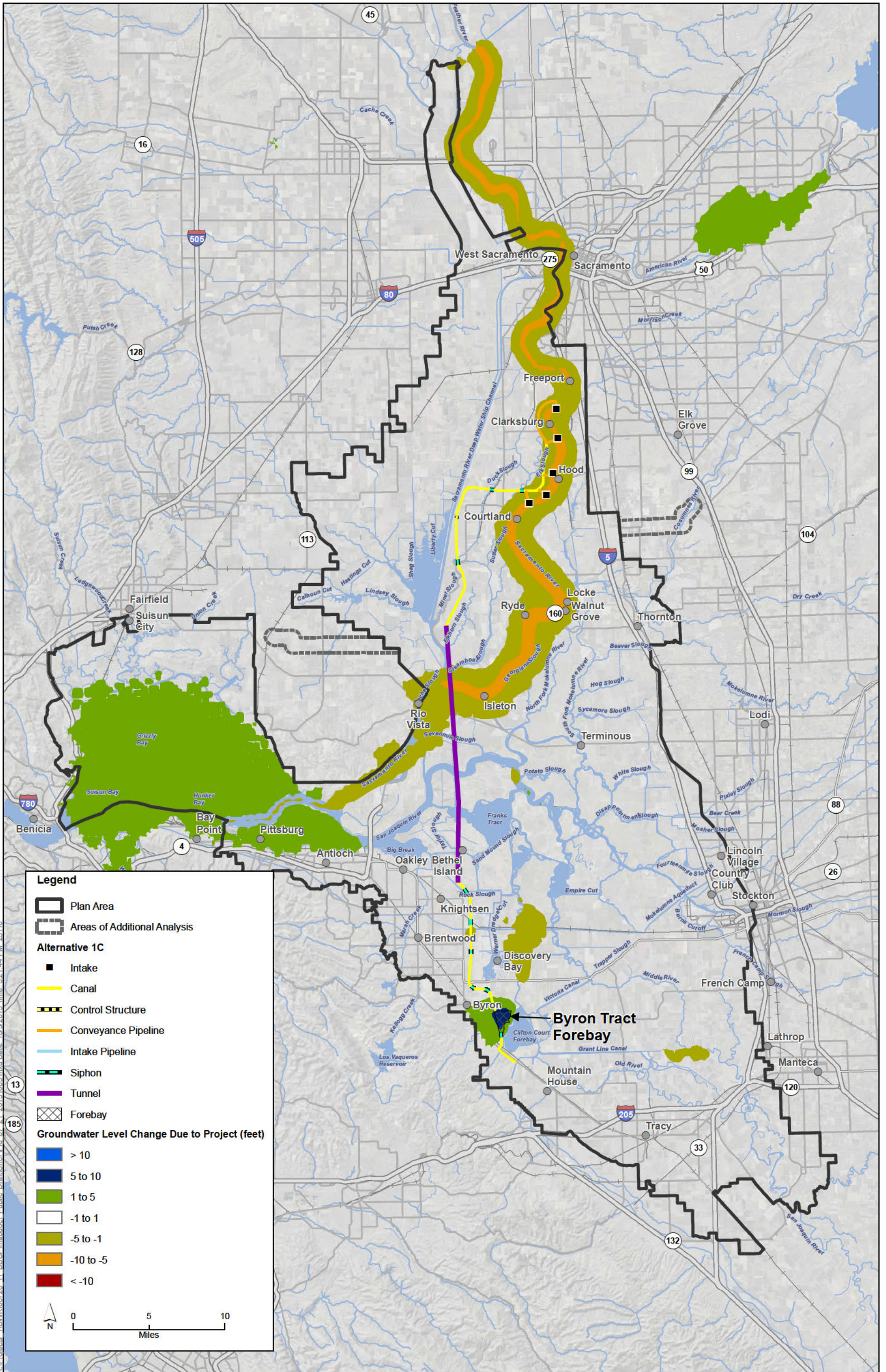
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

Figure 7-19
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



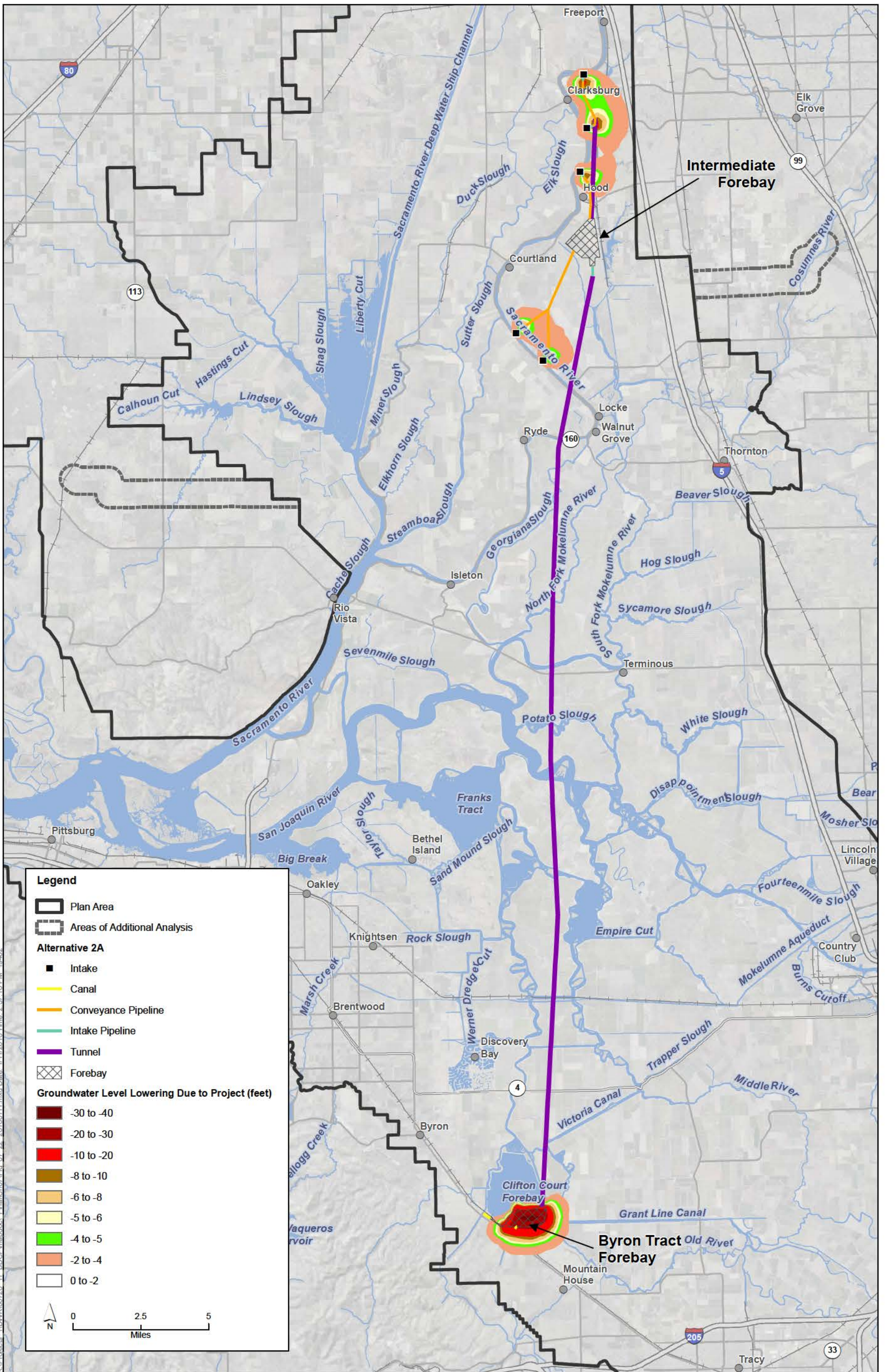
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010

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



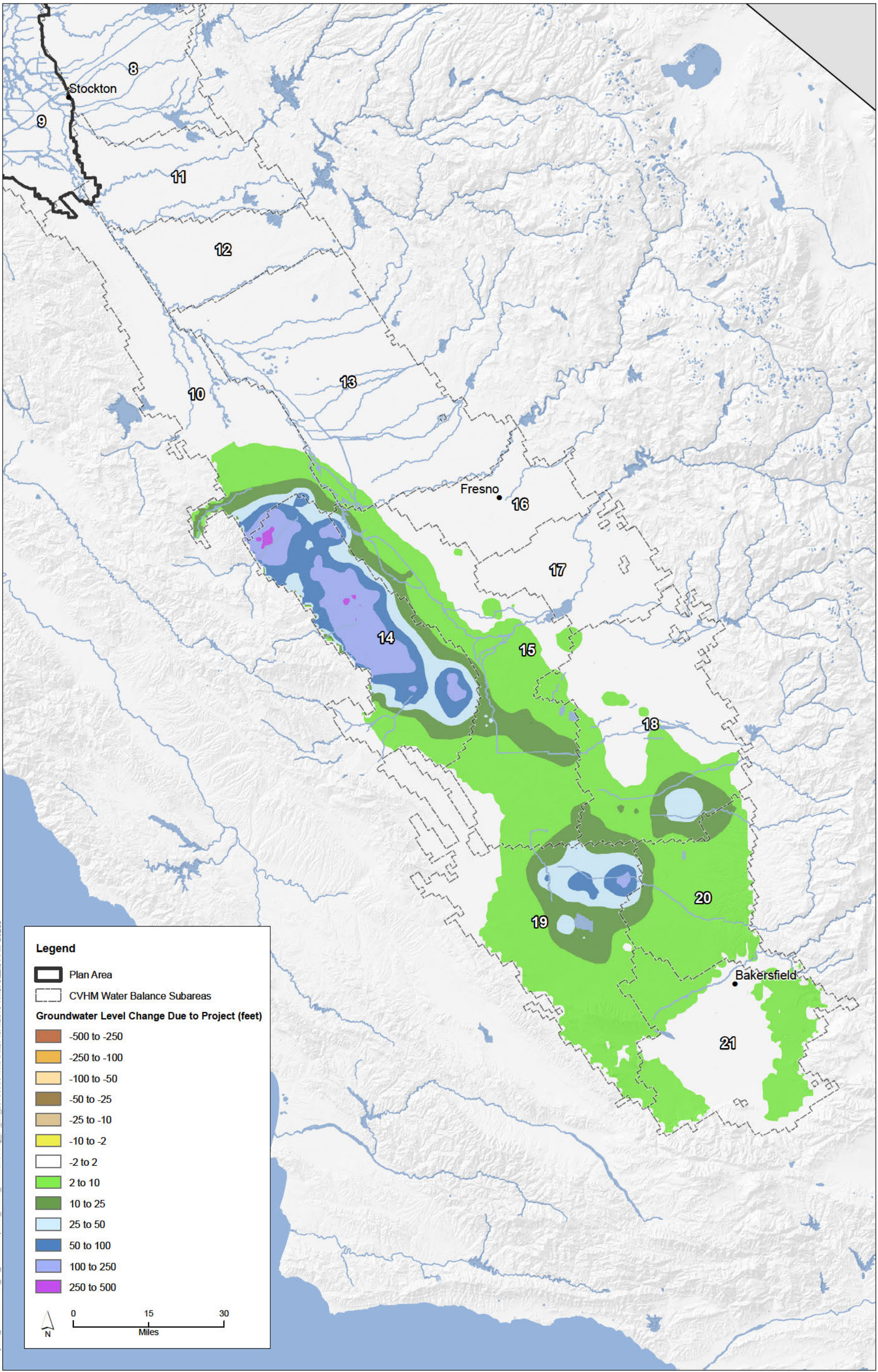
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2011; Groundwater-level Impacts, CH2M Hill 2010;

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.

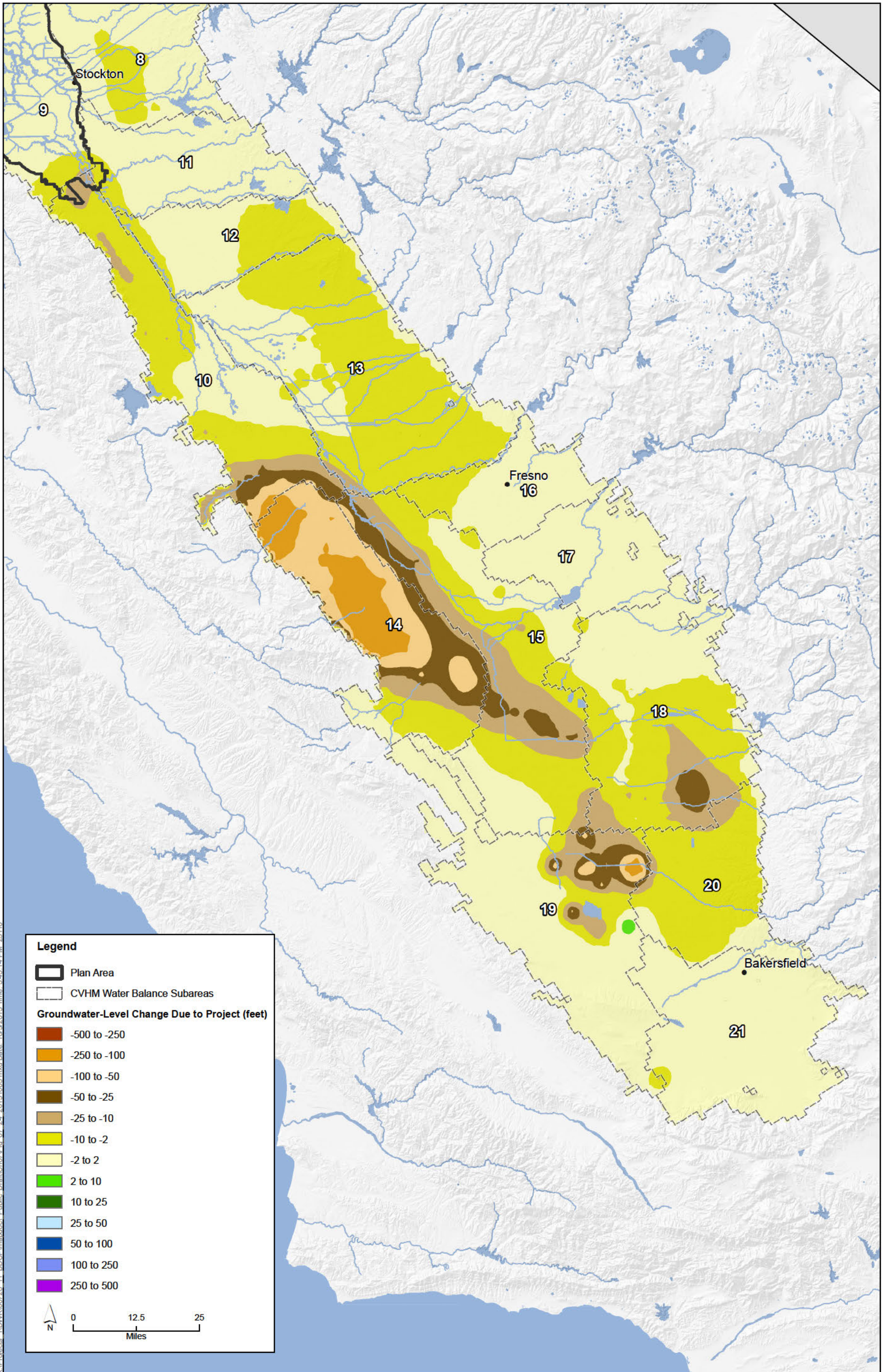
Figure 7-22
Forecasted Groundwater Level Lowering From Construction Dewatering for Alternative 2A



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

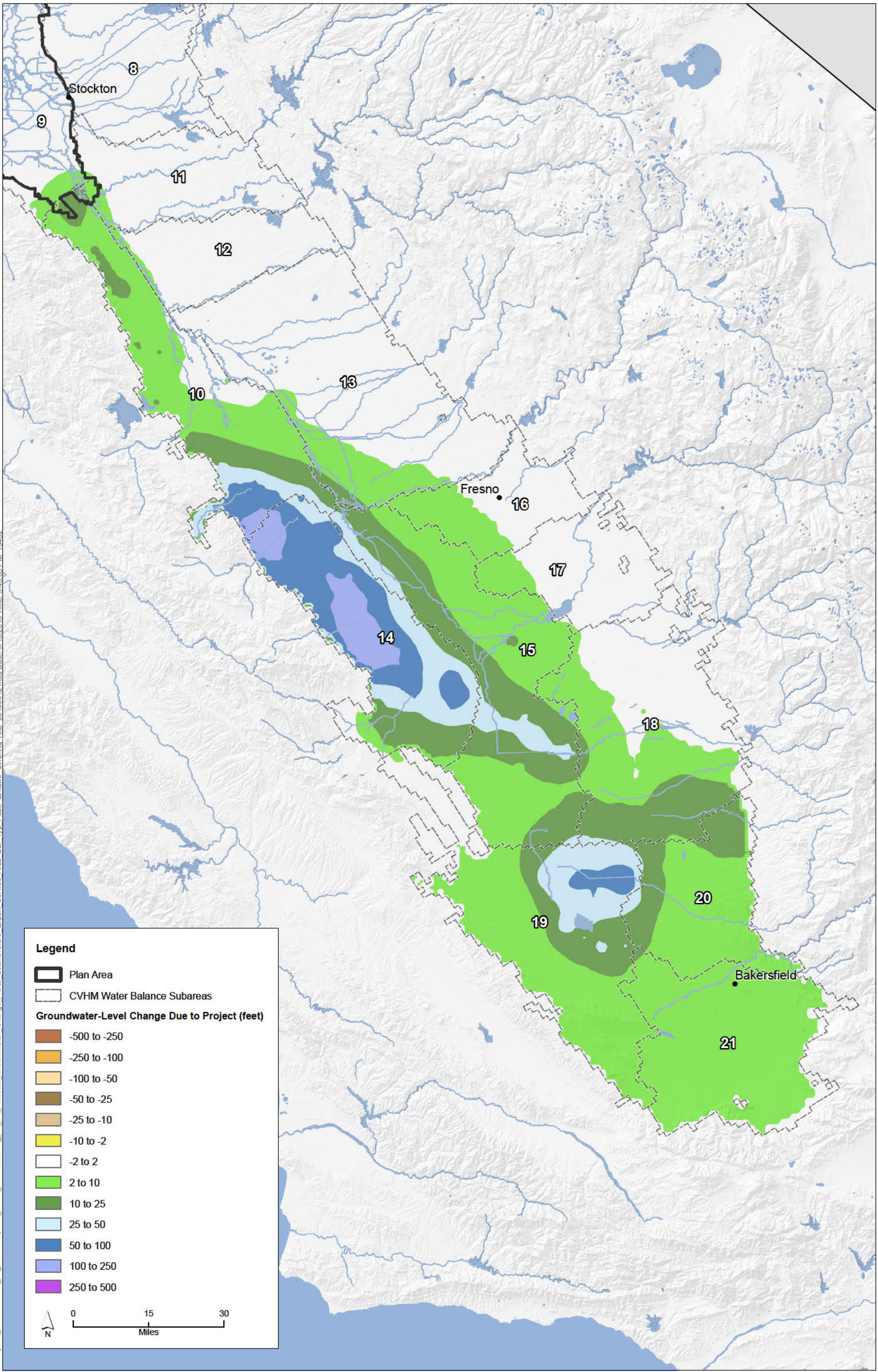
Figure 7-23
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 2A Compared to the No Action Alternative



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

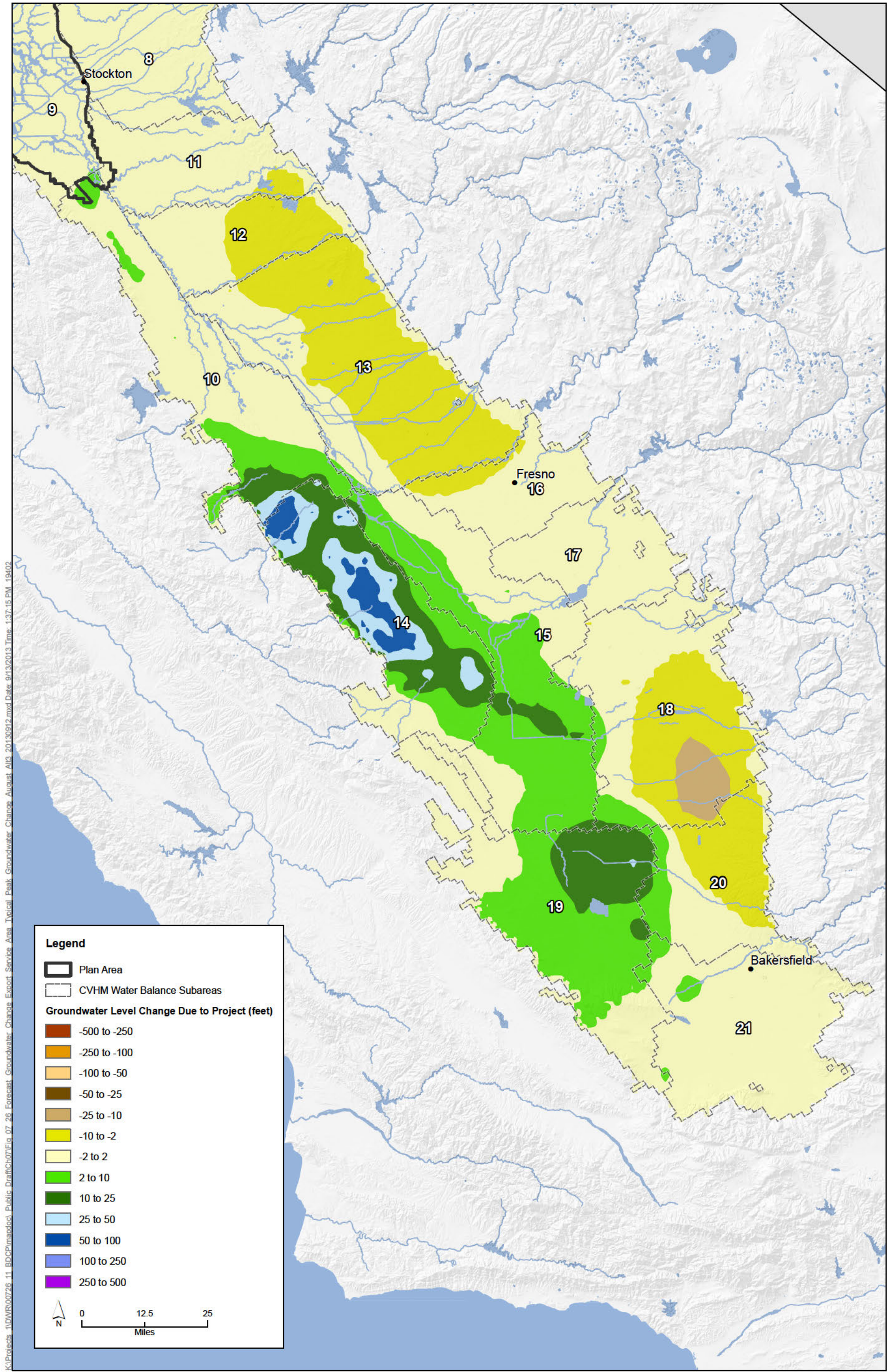
Figure 7-24
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area during a Typical Peak Groundwater Level Change Condition in August for Alternative 2A Compared to Existing Conditions

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

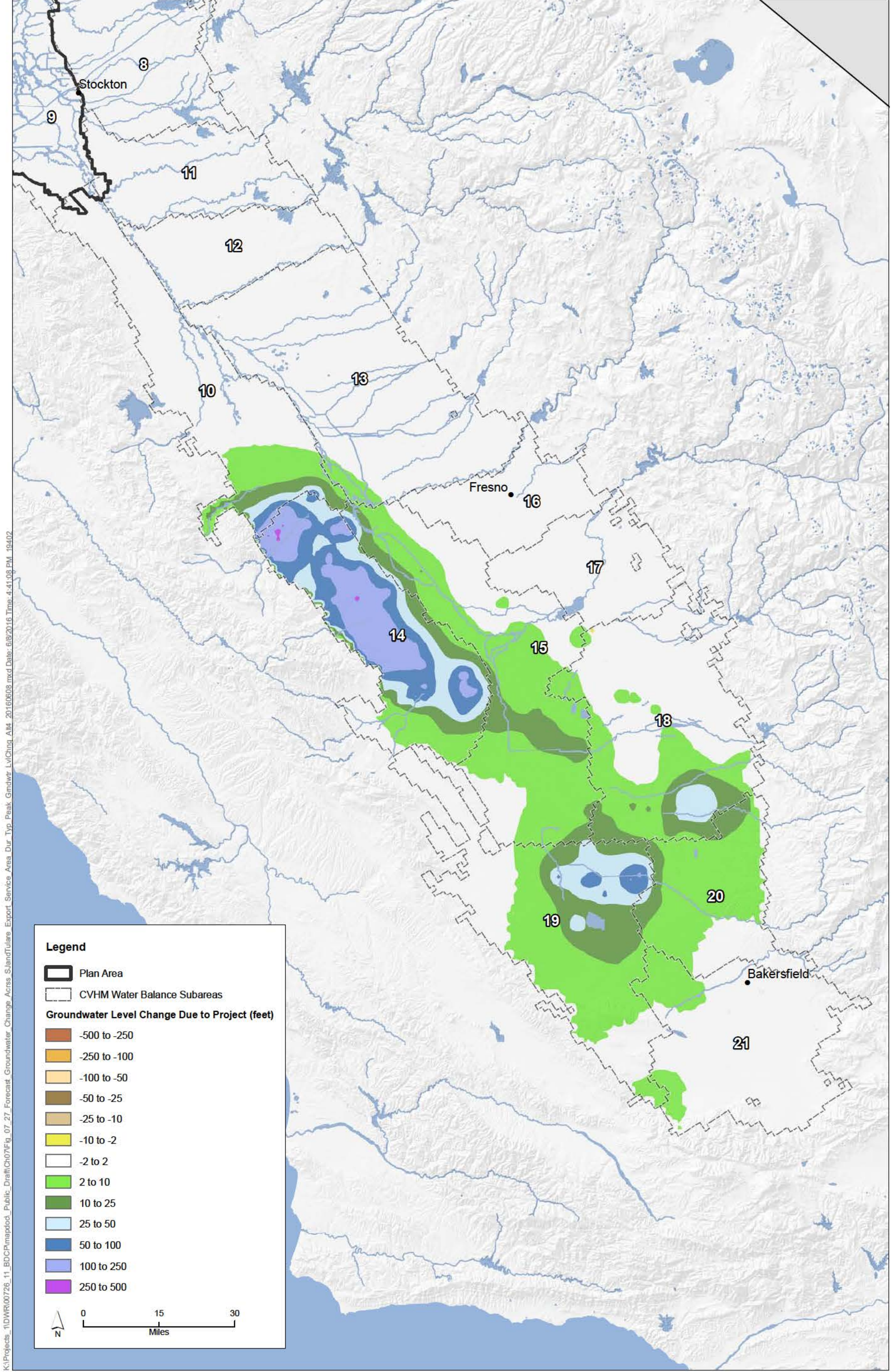
Figure 7-25
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 3 Compared to the No Action Alternative



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

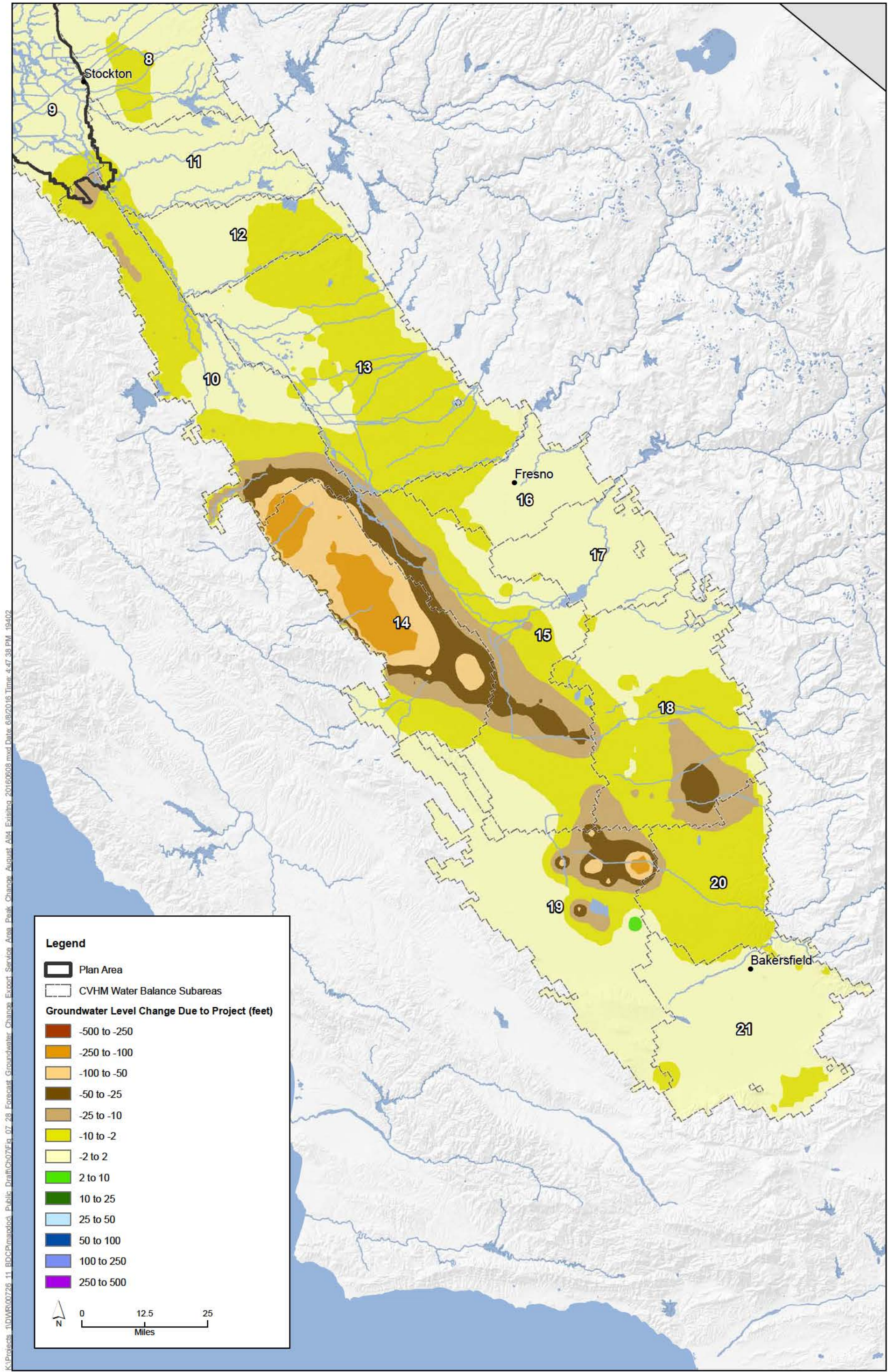
Figure 7-26
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 3 Compared to Existing Conditions



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

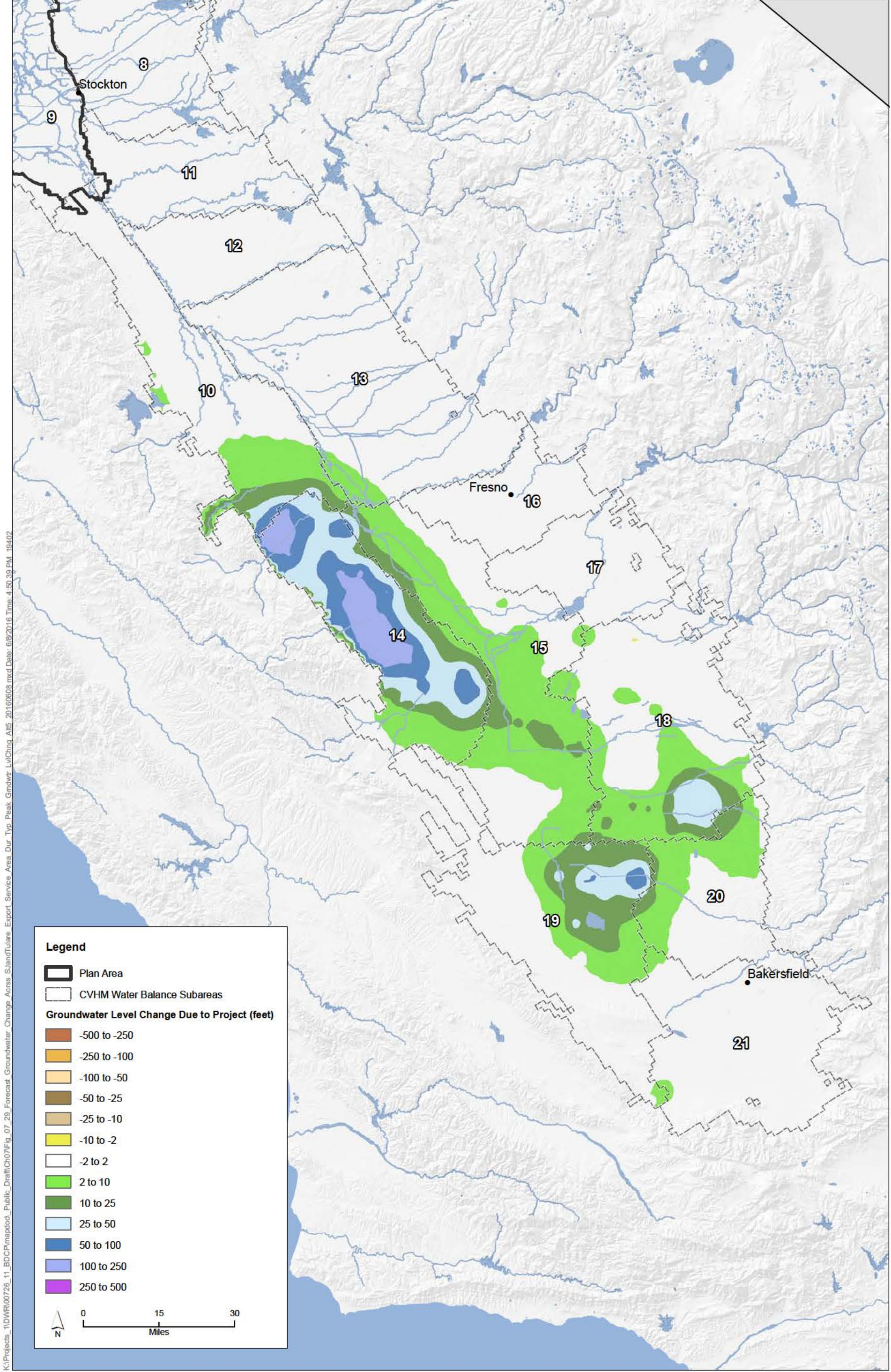
Figure 7-27
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 4 Compared to the No Action Alternative



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

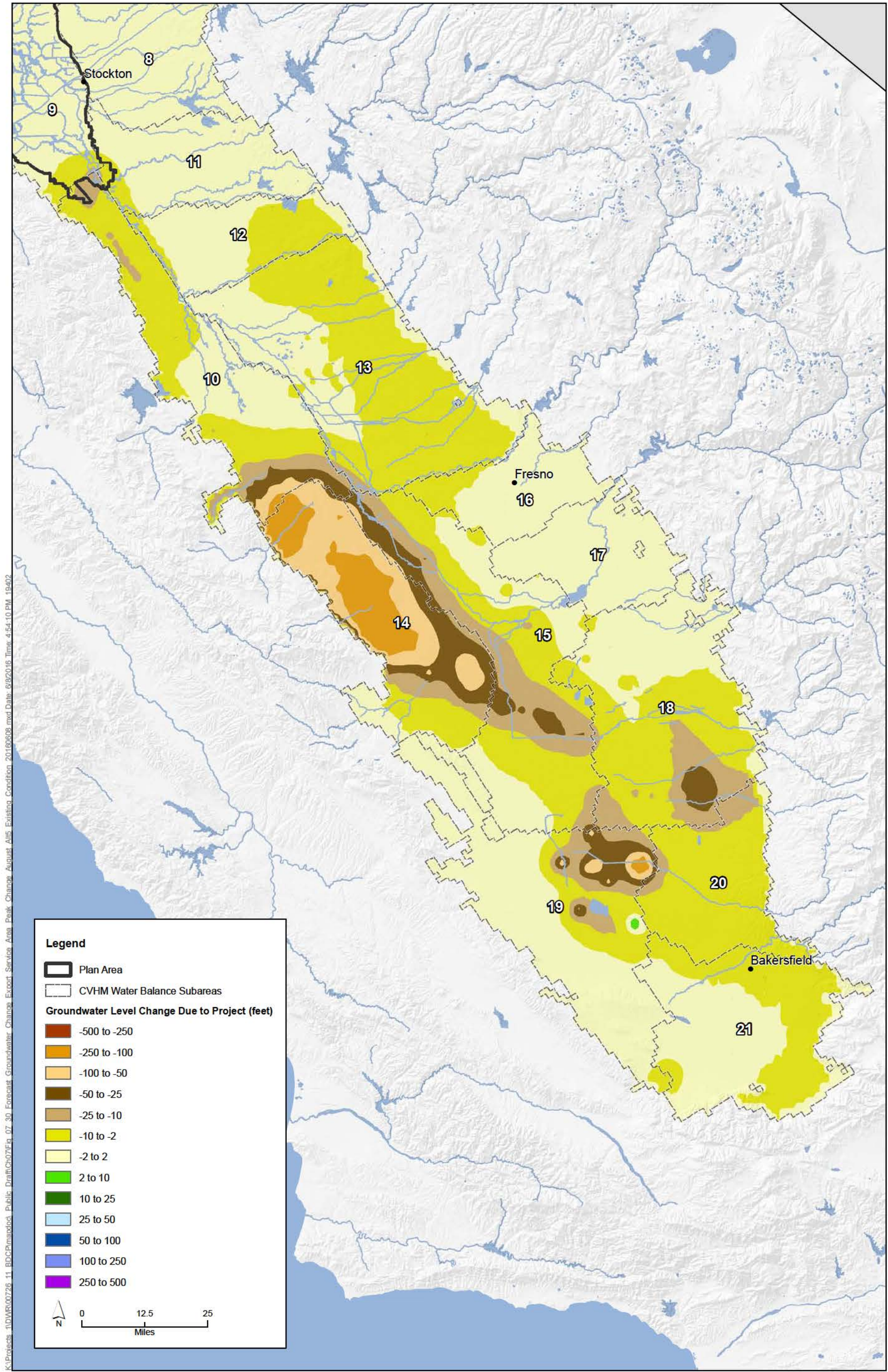
Figure 7-28
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 4 Compared to Existing Conditions



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

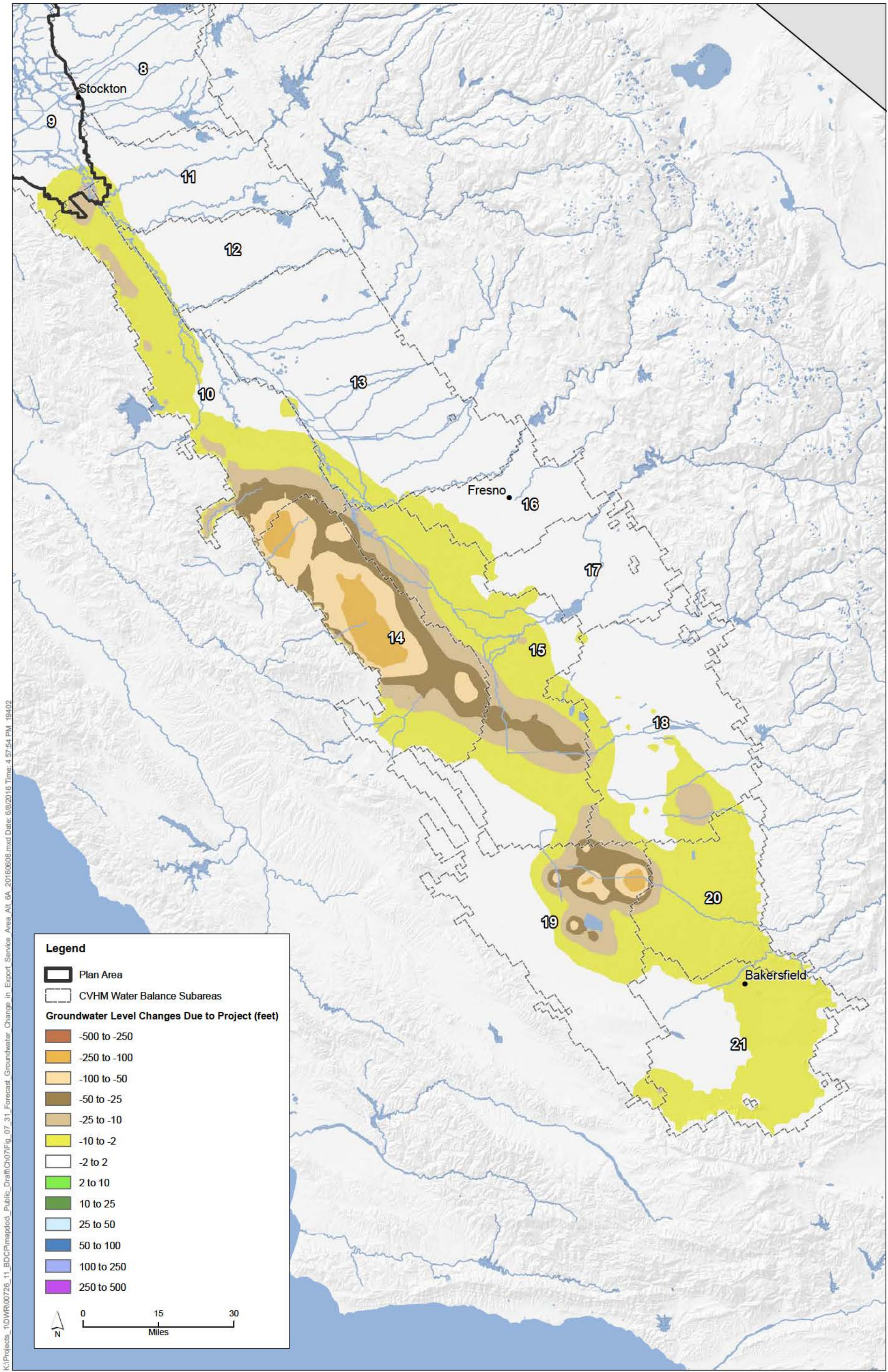
Figure 7-29
Forecasted Groundwater Level Changes in the San Joaquin and Tulare
Export Service Area During a Typical Peak Groundwater Level Change
Condition in August for Alternative 5 Compared to the No Action Alternative



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

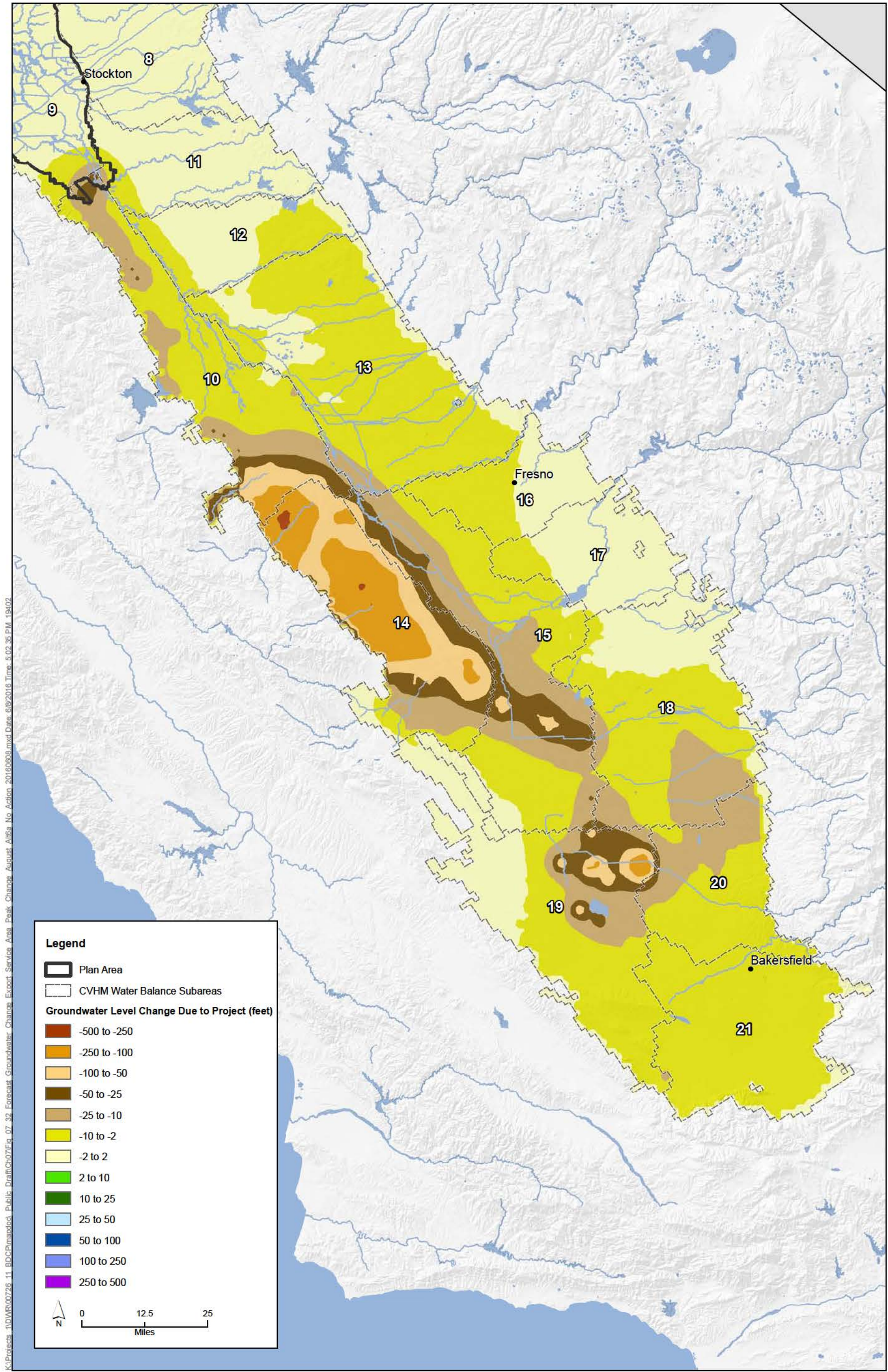
Figure 7-30
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 5 Compared to Existing Conditions



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

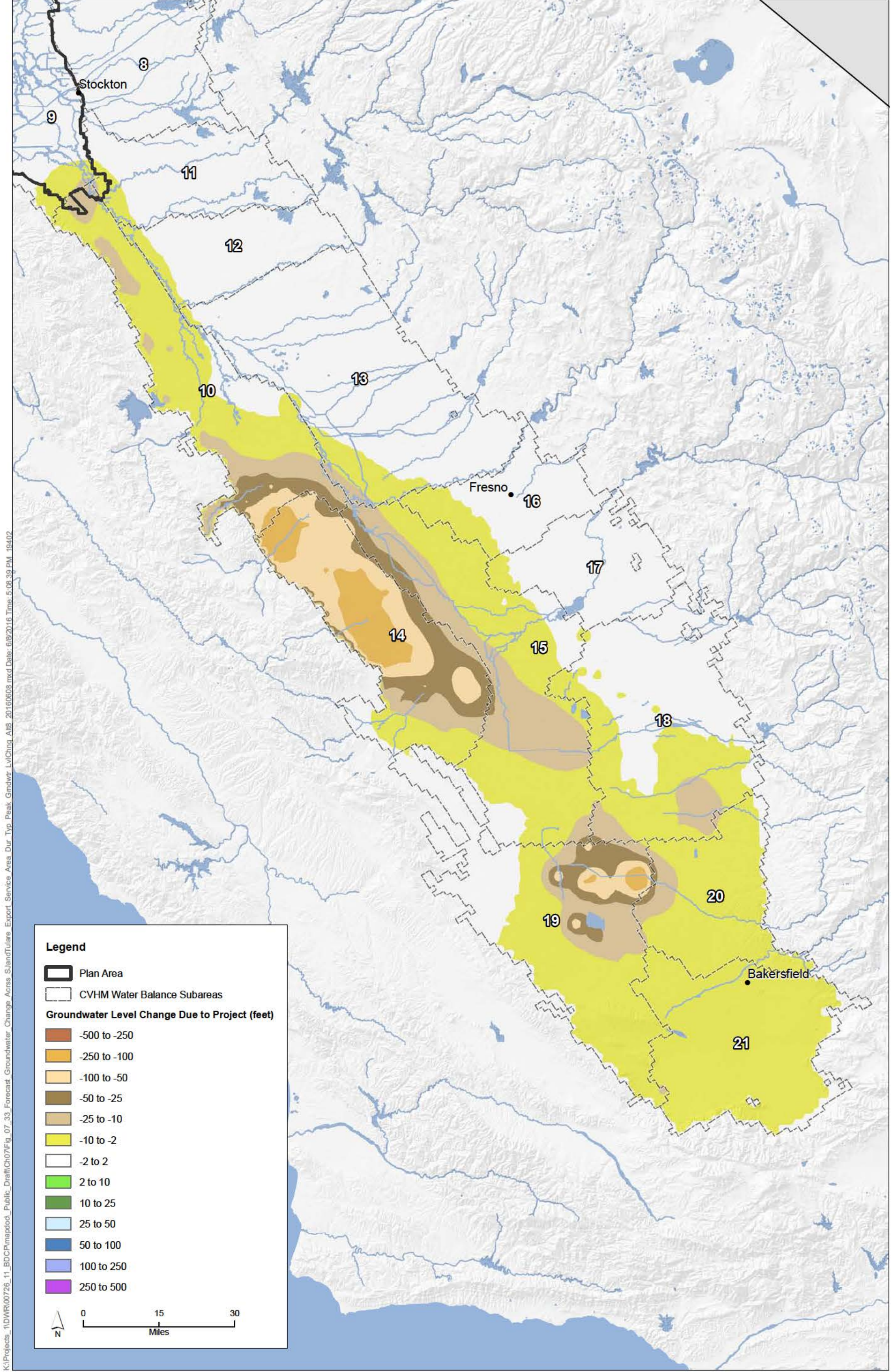
Figure 7-31
Forecasted Groundwater Level Changes in the San Joaquin and Tulare
Export Service Area During a Typical Peak Groundwater Level Change
Condition in August for Alternative 6A Compared to the No Action Alternative



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

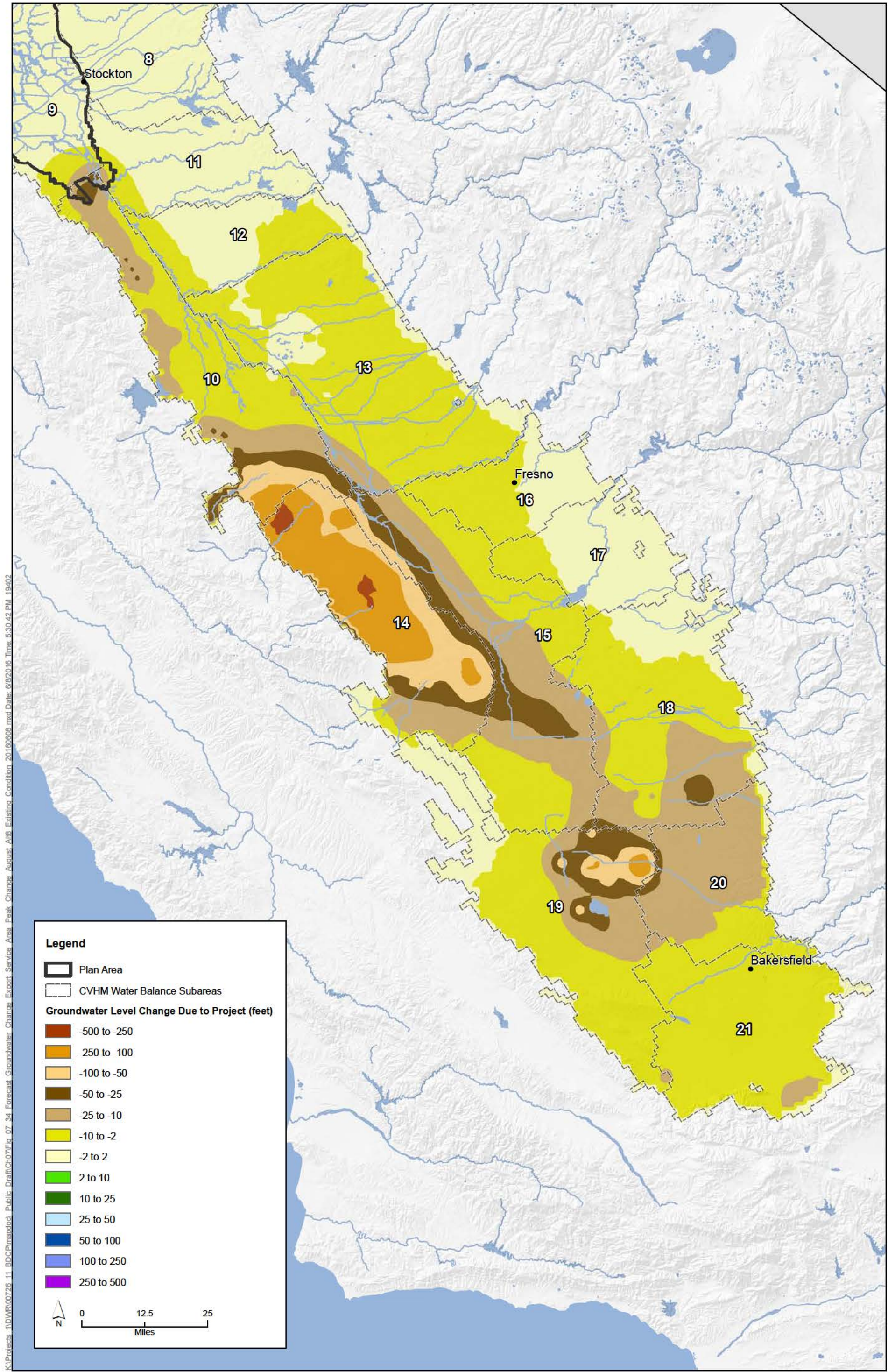
Figure 7-32
Forecasted Groundwater Level Changes in the San Joaquin and Tulare
Export Service Area During a Typical Peak Groundwater Level Change
Condition in August for Alternative 6A Compared to Existing Conditions



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

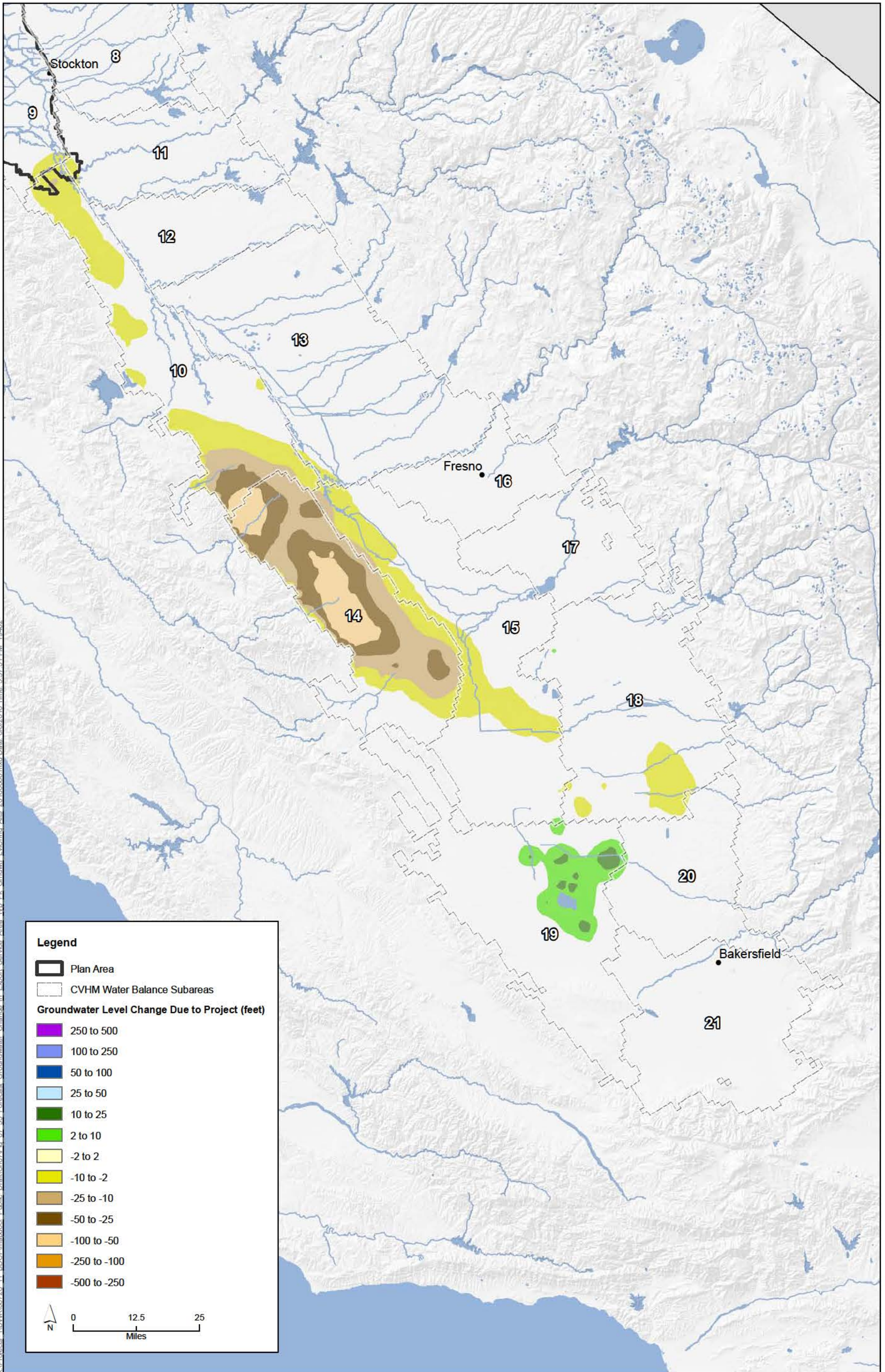
Figure 7-33
Forecasted Groundwater Level Changes in the San Joaquin and Tulare
Export Service Area During a Typical Peak Groundwater Level Change
Condition in August for Alternative 8 Compared to the No Action Alternative



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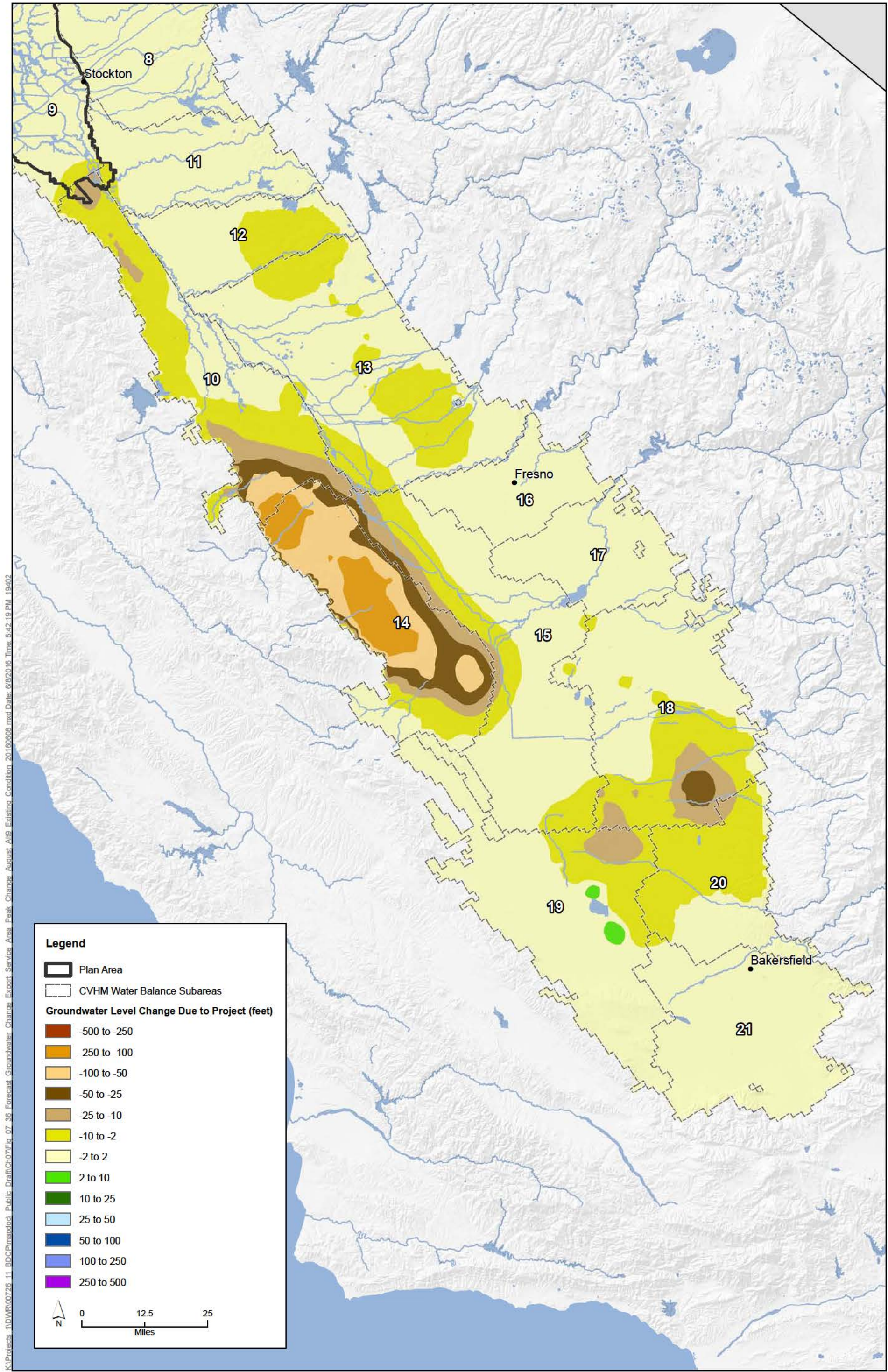
Sources: Plan Area, ICF 2012; Groundwater-level Impacts, CH2M Hill 2012

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 Existing Conditions



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

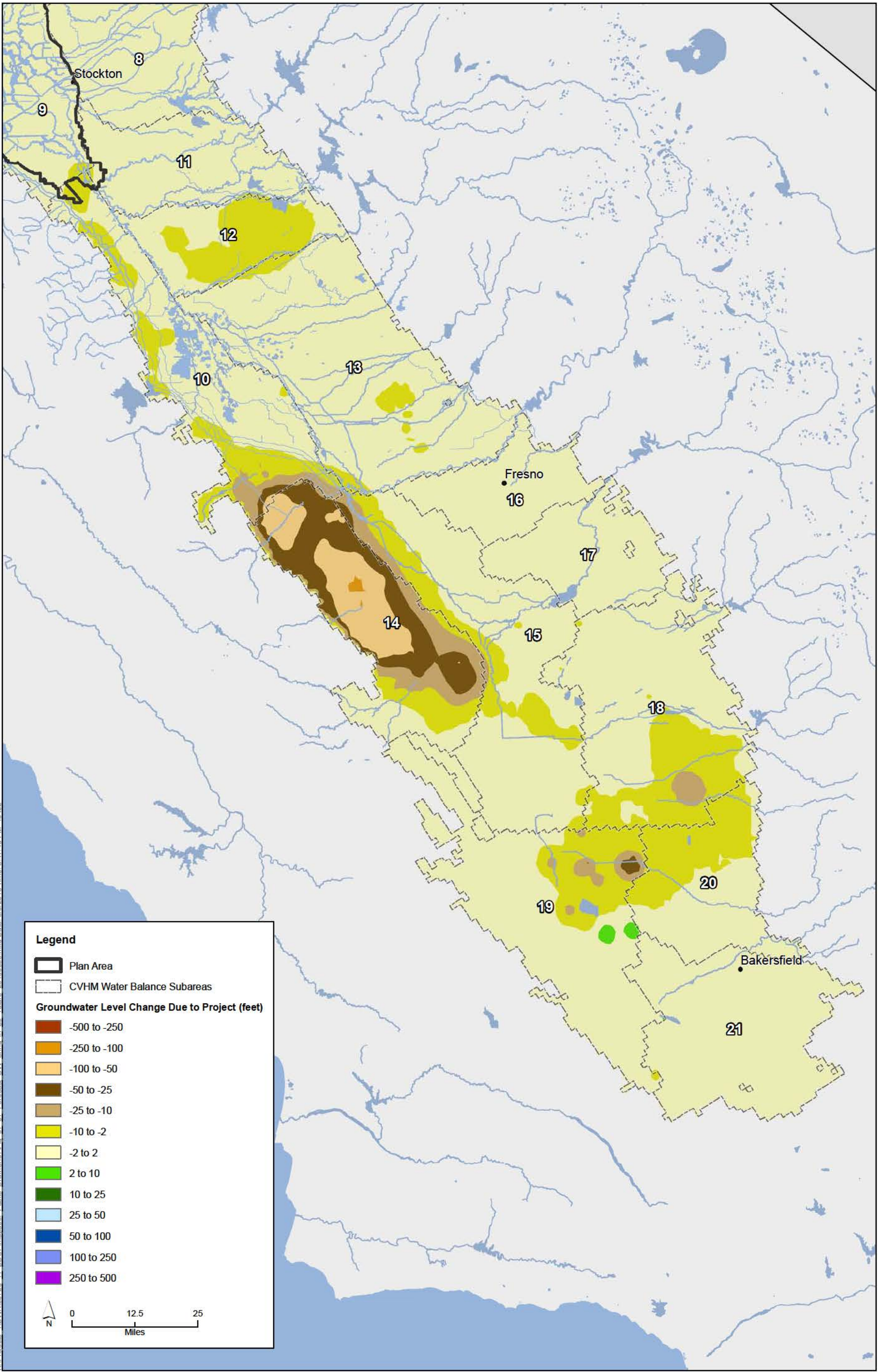
Figure 7-35
Forecasted Groundwater Level Changes in the San Joaquin and Tulare Export Service Area During a Typical Peak Groundwater Level Change Condition in August for Alternative 9 Compared to the No Action Alternative



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

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 Existing Conditions



Sources: Plan Area, ICF 2012;
Groundwater-level Impacts, CH2M Hill 2015

Figure 7-37
Typical Forecasted Peak Groundwater Level Changes in the San Joaquin and Tulare
Export Service Areas for the No Action Alternative (ELT) as Compared to Existing Conditions