

Humboldt Bay Municipal Water District  
828 7<sup>th</sup> Street, Eureka



Agenda for Special Meeting of the Board of Directors  
Meeting Start Time: 5:00 pm  
DUE TO COVID-19 THE DISTRICT WILL HOLD THE MEETING VIA ZOOM  
March 22, 2022

**District Mission**

*Reliably deliver high quality drinking water to the communities and customers we serve in the greater Humboldt Bay Area at a reasonable cost. Reliably deliver untreated water to our wholesale industrial customer(s) at a reasonable cost. Protect the long-term water supply and water quality interests of the District in the Mad River watershed.*

\*\*\*\*\*

**COVID-19 Notice**

Consistent with Cal/OSHA, the California Department of Public Health, and the Humboldt County Public Health Officer's June 18, 2021 COVID-19 Workplace Rules, the meeting location will not be physically open and the Board members will be participating via Zoom. **Members of the public may join the meeting online**

at: <https://us02web.zoom.us/j/86276967871?pwd=ZktWNC8yNlBKTFpyVDQ4c3VFd05TZz09>

**Or participate by phone: 1-669-900-9128 Enter meeting ID: 880 4591 5481 Enter password: 438057**

If you are participating via phone and would like to comment, please press \*9 to raise your hand.

**How to Submit Public Comment:** Members of the public may provide public comment via email until 5 pm. the day before the Board Meeting by sending comments to [office@hbmwd.com](mailto:office@hbmwd.com). Email comments must identify the agenda item in the subject line of the email. Written comments may also be mailed to 828 7th Street, Eureka, CA 95501. Written comments should identify the agenda item number. Comments received prior to the meeting will be read during the meeting. Comments received after the deadline will be included in the record but not read during the meeting. Public comment will also be received during the meeting.

**1. ROLL CALL**

**2. FLAG SALUTE**

**3. ACCEPT AGENDA**

**4. PUBLIC COMMENT**

Members of the public are invited to address the Board on items not listed on the agenda that are within the scope and jurisdiction of the District. At the discretion of the President, comments may be limited to three minutes per person. The public will be given the opportunity to address items that are on the agenda at the time the Board takes up that item. Pursuant to the Brown Act, the Board may not take action on any item that does not appear on the agenda.

**5. CONTINUING BUSINESS**

5.1 Resolution 2022-05 – Extension of AB 361\* - discuss and possibly approve

5.2 12kv Change Order #9\* - discuss and possibly approve

5.3 2020 Census & Redistricting\* - discuss

**ADJOURNMENT**

ADA compliance statement: In compliance with the Americans with Disability Act, if you need special assistance to participate in this meeting, please contact the District office at (707) 443-5018. Notification 48 hours prior to the meeting will enable the District to make reasonable arrangements to ensure accessibility to this meeting. (March 21, 2022)

# CONTINUING BUSINESS

**RESOLUTION NO. 2022-05****A RESOLUTION OF THE BOARD OF DIRECTORS OF THE HUMBOLDT BAY MUNICIPAL WATER DISTRICT PROCLAIMING A LOCAL EMERGENCY PERSISTS, RE-RATIFYING THE PROCLAMATION OF A STATE OF EMERGENCY BY EXECUTIVE ORDER NO. N-33-20 ON MARCH 4, 2020, AND RE-AUTHORIZING REMOTE TELECONFERENCE MEETINGS OF THE LEGISLATIVE BODIES OF HUMBOLDT BAY MUNICIPAL WATER DISTRICT FOR THE PERIOD OF MARCH 22, 2022 THROUGH APRIL 21, 2022 PURSUANT TO BROWN ACT PROVISIONS.**

WHEREAS, the Humboldt Bay Municipal Water District is committed to preserving and nurturing public access and participation in meetings of the Board of Directors; and

WHEREAS, all meetings of the Humboldt Bay Municipal Water District's legislative bodies are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code 54950 – 54963), so that any member of the public may attend, participate, and watch the District's legislative bodies conduct their business; and

WHEREAS, the Brown Act, Government Code section 54953(e), makes provision for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and

WHEREAS, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code section 8558; and

WHEREAS, a proclamation is made when there is an actual incident, threat of disaster, or extreme peril to the safety of persons and property within the jurisdictions that are within the District's boundaries, caused by natural, technological or human-caused disasters; and

WHEREAS, it is further required that state or local officials have imposed or recommended measures to promote social distancing, or, the legislative body meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, the Board of Directors previously adopted a Resolution, Number 2022-03 on March 10, 2022, finding that the requisite conditions exist for the legislative bodies of Humboldt Bay Municipal Water District to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, as a condition of extending the use of the provisions found in section 54953(e), the Board of Directors must reconsider the circumstances of the state of emergency that exists in the District, and the Board of Directors has done so; and

WHEREAS, emergency conditions persist in the District, specifically, as a result of the COVID-19 pandemic, the Governor proclaimed a state of emergency on March 4, 2020 (N-33-20), in accordance with the section 8625 of the California Emergency Services Act, and the state of emergency remains in effect; and

WHEREAS, as a result of the COVID-19 pandemic, the Humboldt County Health Officer has imposed and has recommended measures to promote social distancing as more particularly set forth in his August 6, 2021, Order, among other prior orders and CDC guidance; and

WHEREAS, the Board of Directors does hereby find that as a result of the COVID-19 pandemic, social distancing recommendations and conditions causing imminent risk to attendees has caused, and will continue to cause, conditions of peril to the safety of persons within the District that are likely to be beyond the control

of services, personnel, equipment, and facilities of the District, and desires to affirm a local emergency exists and re-ratify the proclamation of state of emergency by the Governor of the State of California and re-ratify local social distancing recommendations; and

WHEREAS, as a consequence of the local emergency persisting, the Board of Directors does hereby find that the legislative bodies of Humboldt Bay Municipal Water District shall continue to conduct their meetings without compliance with paragraph (3) of subdivision (b) of Government Code section 54953, as authorized by subdivision (e) of section 54953, and that such legislative bodies shall continue to comply with the requirements to provide the public with access to the meetings as prescribed in paragraph (2) of subdivision (e) of section 54953; and

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE HUMBOLDT BAY MUNICIPAL WATER DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:

1. That the Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

2. That the Board of Directors hereby considers the conditions of the state of emergency in the District and proclaims that a local emergency persists throughout the District, and the state of emergency continues to directly impact the ability of the members of the Board to meet safely in person, and further that local officials continue to impose or recommend measures to promote social distancing;

3. That the Board hereby ratifies the Governor of the State of California's Proclamation of State of Emergency, effective as of its issuance date of March 4, 2020;

4. That the staff, General Manager, and legislative bodies of the Humboldt Bay Municipal Water District are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution including, continuing to conduct open and public meetings in accordance with Government Code section 54953(e) and other applicable provisions of the Brown Act.

5. That this Resolution shall take effect immediately upon its adoption and shall be effective until the earlier of April 21, 2022, or such time the Board of Directors adopts a subsequent resolution in accordance with Government Code section 54953(e)(3) to extend the time during which the legislative bodies of Humboldt Bay Municipal Water District may continue to teleconference without compliance with paragraph (3) of subdivision (b) of section 54953.

PASSED AND ADOPTED by the Board of Directors of Humboldt Bay Municipal Water District, this 22nd day of March, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

ATTEST:

---

Sheri Woo, President

---

J. Bruce Rupp, Secretary/Treasurer



# CHANGE ORDER

PROJECT: HBMWD 12 kV Switchgear Relocation

Change Order No.: 9Date: 3/17/22Page No.: 1 of 1**DESCRIPTION OF CHANGE:**

The new switchgear includes current transformers (CTs), which are commonly used to reduce incoming current for various reasons, including protection of equipment. CTs are currently installed on the load side (HBMWD side) of 52-U (the main utility breaker), which is common practice. PG&E previously reviewed the drawings prior to the equipment being manufactured and did not comment on the location of these CTs. However, PG&E recently requested that the CTs be moved from the load side to the line side (PG&E side) of 52-U. PG&E's reasoning for this request is that the Transmission Interconnection Handbook notes that each entity is responsible for protecting its own equipment. PG&E staff are interpreting this to mean that the CTs need to be moved to the line side of 52-U. While this interpretation is debatable, PG&E is requiring this change prior to providing permission to energize the new switchgear.

The cost for this change order as provided in the attached quote covers all work associated with moving the CTs from the load side to the line side of 52-U.

CONTRACTOR: Sequoia Construction Specialties

Adjustment of contract sum	
Original Contract Sum	\$2,448,063.00
Prior Adjustments	\$394,095.13
Contract Sum Prior to this Change	\$2,842,158.13
Adjustment for this Change	\$6,867.00
Revised Contract Sum	\$2,849,025.13

Adjustment of contract completion dates	
Original Contract Completion Date	Nov. 26, 2020
Prior Adjustments in Calendar Days	581
Adjustment in Calendar Days for this Change Order	0
Revised Contract Completion Date	June 30, 2022

**NOTE:** CONTRACTOR WAIVES ANY CLAIM FOR FURTHER ADJUSTMENTS FOR THE CONTRACT SUM RELATED TO THE ABOVE-DESCRIBED CHANGE IN THE WORK.

RECOMMENDED BY:

*Nathan Stevens*\_\_\_\_\_  
Engineer – Nathan StevensDATE: 3/17/22

APPROVED BY:

\_\_\_\_\_  
Owner – John Friedenbach, General Manager

DATE: \_\_\_\_\_

ACCEPTED BY:

\_\_\_\_\_  
Contractor – Brian Pritchard, President

DATE: \_\_\_\_\_

# Potential Change Order/Proposal

SEQUOIA CONSTRUCTION SPECIALTIES

PO Box 6061  
 310 Redmond Rd  
 Eureka, CA. 95503  
 Phone: (707)442-3596      Fax: (707)442-0304

<b>Proposal Number:</b>	14
<b>Date:</b>	3/14/2022
<b>Requested by:</b>	

**Issued To:**  
 HBMWD

Project: 12kV Switchgear Relocation

Description	Amount
Labor and Materials to move customer CT's	\$ -
Colburn Electric	\$ 6,540.00
	\$ -
	\$ -
<i>Sub Total</i>	\$ 6,540.00
5% O&P	\$ 327.00
<b>Total Price</b>	<b>\$ 6,867.00</b>

Additional working days required: TBD

---

Attachments: Colburn Proposal

---



---



---

Signed: Brian Pritchard

---

**Proposal**  
**ROBERT COLBURN ELECTRIC, INC.**  
*California Contractor License No. 750471*  
 PO Box 3667  
 Eureka, CA 95502  
 Phone: (707) 445-8474 Fax: (707) 445-8475  
 www.colburn-electric.com

To: **Sequoia Construction Co.** Date: **3/11/2022**

Attn: **Brian** Job Location: **HBMWD 12kv Switchgear Relocation**

Email COR: **14**

We hereby propose to furnish all materials, equipment, and labor necessary to perform the following work:

**Labor, Materials and Equipment required to move CT's from the load side to the line side on the IPA requested by PG & E - per the attached:**

<b>Total Adder</b>	<b>\$ 6,540.00</b>
--------------------	--------------------

You, the Customer (buyer) or tenant have the right to require the contractor to furnish you with a performance bond. You, the buyer, may cancel this transaction at any time prior to midnight of the third business day after the date of this transaction. Cancellation by the buyer after the right to rescind has passed, shall be deemed a material breach of this agreement and entitles the contractor to damages. Contractors are required by law to be licensed and regulated by the Contractors' State License Board which has jurisdiction to investigate complaints against contractors if a complaint regarding a patent act or omission is filed within four years of the date of alleged violation. A complaint regarding a latent act or omission pertaining to structural defects must be filed within 10 years of the date of the alleged violation. Any questions concerning a contractor may be referred to the Registrar, Contractors' State License Board, PO Box 26000, Sacramento, California 95826, or call the CSLB at 1-800-321-CLSB (2752) or visit the CSLB Internet Web site at www.cslb.ca.gov.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance.

*Acceptance of Proposal-* The above prices, specifications and conditions are satisfactory to do the work as specified. Payment to be made as outlined above.

Authorized Signature Bob Colburn  
 Robert Colburn Electric, Inc.

Our workers are fully covered by Workmen's Compensation Insurance.

This proposal may be withdrawn by us if not accepted within 30 days.

ACCEPTED BY: \_\_\_\_\_

Signature \_\_\_\_\_

Date of Acceptance \_\_\_\_\_

ROBERT COLBURN ELECTRIC, INC.  
 Calif. Contractors License No. 750471  
 P.O. Box 3667 Eureka, California 95502

office phone (707) 445-8474 office fax (707) 445-8475

WORK SHEET

DATE: March 11, 2022

FOR JOB	HBMWD	email:
LOCATION	7270 West End Rd	
CITY	Arcata	
	Labor, Materials and Equipment required to move CT's from the load side to the line side on the IPA requested by PG & E - per the attached:	

Quantity	ARTICLE	Unit Price		TOTALS
1	Campton Electric's Quote Dated 3/11/22	5400.00	E/	5,400.00
		Subtotal		5,400.00
		Tax 9.25%		-
3	Hours Labor	110/HR,	E/	330.00
		Quote OHP	15%	810.00
		<b>Total</b>		6,540.00





Powering Business Worldwide

Eaton Corporation  
 Electrical Services & Systems Division  
 26850 SW Kinsman Rd  
 Wilsonville, OR 97070  
 Cell: (M)720-476-8257  
 Email: DavidJEglington@Eaton.com

3/11/2022

**PROPOSAL**

TO: Barry Pires  
 Campton Electric

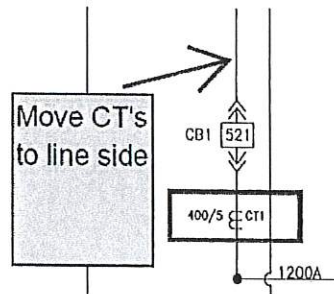
RE: **Negotiation Number: POK8-220311-01-DJE**  
**Subject: HBMWD CT Movement**  
**Jobsite Location: Arcata, CA**

Eaton's Electrical Services & Systems (EESS) is pleased to provide the following proposal for the work scope described herein.

#### SCOPE OF WORK

Eaton's Electrical Services & Systems will provide the necessary field service personnel, tools, materials, and approved test equipment to perform the following:

- Eaton services (EESS) to move Load side Current Transformers to Line side per request.



Eaton services will require a full outage of the LINE and LOAD bus to accomplish this work scope due to proximity to bus and needing to remove any shutter/Glastic barriers to move Current Transformers.

A detailed report of all findings and test results will be provided.

#### PRICING

To provide the services as described above, Eaton Corporation would charge:

Price for the above scope of work is based on performing site work on a weekday-day turn. If the work cannot be performed during regular working hours (6am-5pm) or must be performed on weekends or holidays, you must contact us to adjust the price accordingly.

#### DELIVERY

**Schedule:** The scheduling of work will be mutually agreed upon between the customer and Eaton's Electrical Engineering Services & Systems. Three weeks advance notice is required for scheduling.

#### CLARIFICATIONS AND EXCEPTIONS

Negotiation Number: POK8-220311-01-DJE

Negotiation Number: POK8-220311-01-DJE

Page 2 of 3

- Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.
- EESS will initiate minor corrective actions to equipment to facilitate repairs to the equipment; however, any parts/materials identified during the inspection requiring replacement, such as control power module, fuses, etc., will be submitted on a separate proposal with cost.
- Eaton has not included any applicable sales tax in this proposal
- All testing will be performed per Eaton standard testing guidelines
- All device settings to be supplied by others
- This service is weather permitting if this is outdoor equipment.

**SAFETY CLARIFICATIONS**

- Eaton will not perform work activities in situations where the proper level of PPE is not practical. At no time will work be performed when the arc-flash exposure levels are above 40 cal/cm<sup>2</sup>.
- To establish an electrically safe work condition, the customer is to provide an up-to-date site electrical one-line diagram(s) for lockout/tagout purposes showing all sources of power.
- For electrical outages requiring utility isolation, the customer and utility shall coordinate lockout/tagout requirements with Eaton in a written plan of execution.
- Customer shall be responsible to perform all switching. Any requirement of Eaton for perform switching will require customer signature and a minimum of two EESS personnel present. Additional charges will apply.
- The customer supplied Arc-Flash study along with their labeled equipment to meet NFPA requirements will be used to determine the Personal Protective Equipment (PPE) required to perform the work required for this proposal. When a current study and labeling is not available, the time required to determine the proper PPE will be at the current rate per hour, unless included within the Eaton scope of work. Eaton will not perform work activities in situations where the proper level of PPE is not practical. At no time will work be performed when the arc-flash exposure levels are above 40 cal/cm<sup>2</sup>.

**CUSTOMER-REQUIRED SUPPORT**

- The owner/contractor shall make all equipment available upon arrival of EESS personnel, including removal from service, to permit continuous progression of work. Stand by or delays that are out of the control of EESS will be charged at published services rates plus applicable expenses.
- The owner/contractor shall be responsible for maintaining power to vital or necessary plant equipment and processes.
- The owner/contractor will coordinate all outages and perform all switching to de-energize/isolate equipment to be serviced.
- The owner/contractor shall supply a suitable and stable source of power for operation of test equipment at each test site when normal power is removed. EESS shall specify requirements.
- The owner/engineer will supply a complete set of electrical plans, including the plant single-line diagram, specifications and any pertinent change orders EESS prior to commencement of work.
- Customer shall ensure copies of Operations and Maintenance Manuals and related literature for equipment being serviced is available on site for use by EESS personnel.
- The owner / contractor shall provide the assistance of a qualified electrician / individual from a contractor or the facility familiar with the electrical system to provide access to electrical equipment and assistance to Eaton field service personnel, as required during the time that service is performed, per NFPA70E and OSHA 1910.269.
- The owner / contractor shall be responsible for proper waste disposal of all waste by-products produced in the performance of this work.

**SAFETY TRAINING OF EESS FIELD PERSONNEL**

- All EESS field personnel received training to comply with OSHA CFR1910.269 Electrical Safety Standard, which sets minimum safety rules and practices for the design, operation, and maintenance of high-voltage systems (over 600 volts).

**PROCESS ADJUSTMENTS**

- This proposal was prepared based upon EESS understanding of the documentation and discussions listed in EESS Scope of Work. If a change to the system functionality, hardware and/or software is to be used, or work scope is

Negotiation Number: POK8-220311-01-DJE

Page 3 of 3

presented to EESS, then EESS will respond by issuing an addendum to this proposal describing the impact on the schedule and cost of the system or work additions or subtractions.

- Work related to the changes will not begin until the impact is mutually agreed upon by customer and EESS.

**STAND-BY TIME**

- Stand-by time is defined as EESS time spent on-site waiting for personnel or access to equipment necessary to perform the required steps for the service work outlined within this proposal.
- Under the terms of this proposal, stand-by time is not included within the Scope of Work.
- Stand-by or delays that are outside the immediate control of EESS will be charged separately at published services rates plus any applicable expenses.

**PROPRIETARY AND CONFIDENTIAL INFORMATION**

- This submittal contains Eaton proprietary and confidential information, which may only be used by the addressee to evaluate and respond to this submittal. By accepting this submittal from Eaton, the addressee agrees to not use this submittal, or any information contained herein, in any manner adverse to Eaton's interests; to keep in confidence the submittal and all information contained; and to not disclose to any third party or publish this submittal, any portion thereof, or any information contained herein without Eaton's prior written consent.

**TERMS AND CONDITIONS**

Any order arising out of this offer will be governed by the conditions contained in Eaton Selling Policy 25-000 dated September 1, 2021. This offer is valid for 30 days from date of issue unless otherwise extended, modified or withdrawn, in writing, by Eaton Corporation. Payments are due and payable net within thirty (30) days from the date of each invoice.

To accept this proposal, please:

1. Reference: **POK8-220311-01-DJE**
2. Issue a purchase order to **EATON CORPORATION**
  - Email purchase order to [DavidJEglinton@Eaton.com](mailto:DavidJEglinton@Eaton.com)
3. Acceptance of proposal signature
  - a. \_\_\_\_\_

A HARDCOPY OF THE PURCHASE ORDER MUST BE RECEIVED BY EESS PRIOR TO SERVICE BEING SCHEDULED.

Should there be any further questions or needs, please contact at any time. It is a privilege to have this opportunity to be of service. Eaton's Electrical Services & Systems looks forward to working with you on this project.

Sincerely,

*David Eglinton (POK8)*

**David Eglinton (POK8)**

**DavidJEglinton@Eaton.com**

**(M)720-476-8257**

Service Sales Engineer

Eaton Corporation

Electrical Services and Systems Division

**Customer Quote For: COLBURN ELECTRIC**

CED-CAMPTON ELECTRIC

Quote: Q1014769 Revision #: 001



605 W CLARK STREET  
 EUREKA CA 95501  
 Tel: (707)442-6446 Fax: (707)445-8250

Contact Name: BARRY PIRES

Quote Date: 03/11/22  
 Updated On: 03/11/22  
 Expires On: 04/10/22

Job Name:  
 Attn:  
 Ship To: 12KV HUMBOLDT BAY WATER  
 7270 WEST END ROAD  
 ARCATA, CA 95521-0000

Customer PO #: MOVE CTS  
 Customer PO Date:  
 FOB: SHIPPING POINT  
 Freight: PREPAID

LN	Product	Qty	Price	Per *	Ext Price
01	EATON EESS MOVE CTS TO LOAD SIDE	1	\$5,400.00	E	\$5,400.00
02	PER POK8-220311-01-DJE ATTACHED				

Merchandise: \$5,400.00  
 Tax: \$0.00  
 Total: \$5,400.00

**PLEASE NOTE: THIS IS NOT AN OFFER TO CONTRACT, BUT MERELY A QUOTATION OF CURRENT PRICES FOR YOUR CONVENIENCE AND INFORMATION. ORDERS BASED ON THIS QUOTATION ARE SUBJECT TO YOUR ACCEPTANCE OF THE TERMS AND CONDITIONS LOCATED AT SALES.OUR-TERMS.COM, WHICH WE MAY CHANGE FROM TIME TO TIME WITHOUT PRIOR NOTICE. WE MAKE NO REPRESENTATION WITH RESPECT TO COMPLIANCE WITH JOB SPECIFICATIONS.**

\* Per E = Each, C = Hundred, M = Thousand

**HUMBOLDT BAY MUNICIPAL WATER DISTRICT**

To: Board of Directors  
 From: Sherrie Sobol  
 Date: March 19, 2022  
 Subject: 2020 Census and Division Boundaries

\*\*\*\*\*

**Background:**

At the regular March meeting, the Board requested the ability to see how changes would impact the Division maps and populations. GHD staff has the ability to do some of the changes and will be attending the meeting to make additional changes as requested by Directors.

**Current:**

Below is comparative information regarding the population of each Division from the 2010 and 2020 census. The 2020 census shows Division 1 and 4 with a decrease in population while Divisions 2, 3 and 5 show an increase in population compared to the 2010 census.

	2010				2020			
	Pop	Variance	Division % Difference	Population % Difference	Pop	Variance	Division % Difference	Population % Difference
Division 1	17,839	-268	-1.50%	-0.30%	17,651	-1,206	-6.83%	-1.28%
Division 2	17,335	-772	-4.45%	-0.85%	18,709	-148	-0.79%	-0.16%
Division 3	16,823	-1,284	-7.63%	-1.42%	17,355	-1,502	-8.65%	-1.59%
Division 4	17,796	-311	-1.75%	-0.34%	17,789	-1,068	-6.00%	-1.13%
Division 5	20,743	2,636	12.71%	2.91%	22,779	3,922	17.22%	4.16%
Grand Total	90,536				94,283			
<b>Avg</b>	<b>18,107</b>				<b>18,857</b>			

The Humboldt County Elections Department requires the District finalize it's redistricting by April 17, 2022.

As noted previously, the requirement is to "...adjust the boundaries of any divisions so that the divisions are, as far as practicable, equal in population..."

**Scenario 2** depicts changes where Division 5 is reduced and shares a portion of Arcata with Division 1 and Division 2. Division 3 now includes the Blue Lake area. The Board seemed to like this scenario as the populations for each division are equalized.

**Scenario 4** , **Figure 3** depicts changes where Division 5 is reduced, Division 1 expands north up the coast and borders Division 2, Division 2 expands south on the eastern boundary, Division 3 expands eastward, Division 4 moves north and encompasses portion of the Arcata Bottoms. This is the starting point for the Board to move precincts around and if desired, establish an alternate scenario.

**Next Steps:**

At the Special meeting, the Directors can see what the requested changes will look like and how the population per Division is impacted by the changes. We will have GHD staff able to show the different maps as requested.

The second Public Hearing to consider and finalize division boundaries will be held on April 14<sup>th</sup>, 2022. If the Board approves any changes via Resolution, the information will be provided to the Humboldt County Elections Department by the April 17<sup>th</sup> deadline.

## Scenario 2

<b>Row Labels</b>	<b>Sum of Population</b>
Division 1	18856
Division 2	18859
Division 3	18858
Division 4	18857
Division 5	18853
(blank)	
<b>Grand Total</b>	<b>94283</b>

## Scenario 4

<b>Row Labels</b>	<b>Sum of Population</b>
Division 1	18669
Division 2	20847
Division 3	17675
Division 4	17439
Division 5	19653
(blank)	
<b>Grand Total</b>	<b>94283</b>

# Scenario 2



OID_	PRECINCT	Population	<i>Sorted</i> Scenario_2	Scenario_4
1	3PA-5	0	Division 1	Division 1
2	4E-53	1103	Division 1	Division 1
3	1E-35	713	Division 1	Division 1
4	1E-36	377	Division 1	Division 1
5	4E-15	93	Division 1	Division 1
6	4E-23	1042	Division 1	Division 3
7	4E-24	978	Division 1	Division 1
8	4E-25	1147	Division 1	Division 1
9	1E-28	4	Division 1	Division 3
10	4E-54	1167	Division 1	Division 1
11	4E-49	0	Division 1	Division 1
12	1SB-1	46	Division 1	Division 3
13	1E-29	38	Division 1	Division 3
14	1SB-5	0	Division 1	Division 3
16	1E-27	97	Division 1	Division 3
17	3MA-2	183	Division 1	Division 1
18	4PE	150	Division 1	Division 1
19	4PEF	438	Division 1	Division 1
20	3MA-1	588	Division 1	Division 1
21	3PESF	36	Division 1	Division 1
22	4E-20	135	Division 1	Division 1
23	4E-58	182	Division 1	Division 1
24	4E-11	1642	Division 1	Division 1
25	4E-56	1381	Division 1	Division 1
26	4E-14	347	Division 1	Division 1
28	4E-31	169	Division 1	Division 1
29	4E-32	1564	Division 1	Division 1
30	4E-21	841	Division 1	Division 1
31	4E-12	1047	Division 1	Division 1
32	4E-22	933	Division 1	Division 1
33	4E-13	1793	Division 1	Division 1
35	1E-26	70	Division 1	Division 1
36	1E-30	177	Division 1	Division 1
37	4E-51	375	Division 1	Division 1
38	5MK-9A	44	Division 2	Division 2
39	5MKS9	12	Division 2	Division 2
40	5FBS	822	Division 2	Division 2
41	5FB	35	Division 2	Division 2
42	5MK-7	1261	Division 2	Division 2
43	5MK-3	990	Division 2	Division 2
44	5MK-1	2056	Division 2	Division 2
45	5AS-5	106	Division 2	Division 2
46	5AS-4	2	Division 2	Division 2
47	5BLS	216	Division 2	Division 2
48	5PA-3A	23	Division 2	Division 1
49	5PAS	157	Division 2	Division 2
50	5AS-6	86	Division 2	Division 2
51	5MK-8	1193	Division 2	Division 2
52	5BLFS	27	Division 2	Division 2
53	5MK-2	1342	Division 2	Division 2
54	5AS-7	52	Division 2	Division 2
55	3PA-3B	137	Division 2	Division 5
56	3PAE	156	Division 2	Division 2
57	5BLFS-1	310	Division 2	Division 2

OID_	PRECINCT	Population	Scenario_2	Scenario_4
58	5BLF-1	84	Division 2	Division 2
59	5BL-1	0	Division 2	Division 2
60	5MKS8-1	42	Division 2	Division 2
61	5MK-5A	1526	Division 2	Division 2
62	5MK-5	1512	Division 2	Division 2
63	5MK-6	2023	Division 2	Division 2
64	5MK-6A	1210	Division 2	Division 2
65	5MK-4	834	Division 2	Division 2
66	5MK-4A	1126	Division 2	Division 2
67	5MK-4B	1077	Division 2	Division 2
68	3AS-7	176	Division 2	Division 2
69	5AS-5A	0	Division 2	Division 2
70	5MK-9B	5	Division 2	Division 2
71	5BLF-2	217	Division 2	Division 2
72	3AS-4	36	Division 3	Division 5
73	3B--1	1174	Division 3	Division 2
74	3A--8	369	Division 3	Division 5
75	3AS-1	4	Division 3	Division 5
76	3JCFR	670	Division 3	Division 3
77	3JCF	52	Division 3	Division 5
78	3A-J1	480	Division 3	Division 4
79	5MCK	29	Division 3	Division 3
80	3A-JW	186	Division 3	Division 3
81	3JC-R	57	Division 3	Division 3
82	3JCWR	648	Division 3	Division 3
83	3JCFRB	9	Division 3	Division 3
84	3A-JWA	10	Division 3	Division 3
85	3JCFRB	5	Division 3	Division 3
86	3JCWF	0	Division 3	Division 3
87	3FWW	0	Division 3	Division 3
88	3JCW	139	Division 3	Division 3
89	3FW	351	Division 3	Division 3
91	3GFF-A	299	Division 3	Division 3
92	1SB-6	1669	Division 3	Division 3
93	1SB-4	293	Division 3	Division 3
94	1CS-4	1479	Division 3	Division 3
95	1SB-9	461	Division 3	Division 3
96	1SB10	1418	Division 3	Division 3
97	1SB17	0	Division 3	Division 3
99	1SB12	170	Division 3	Division 3
100	1SB-7	106	Division 3	Division 3
101	1SB13	8	Division 3	Division 3
102	1SB-2	1393	Division 3	Division 3
103	1SB11A	3	Division 3	Division 3
104	3AS-9	121	Division 3	Division 2
105	3FWF-A	866	Division 3	Division 3
106	3AS10	4	Division 3	Division 2
107	3ES-7	445	Division 3	Division 4
108	1SB-3	919	Division 3	Division 3
109	1SB-8	302	Division 3	Division 3
110	1ES-3	17	Division 3	Division 3
111	1SB-8A	67	Division 3	Division 3
112	3FWF	259	Division 3	Division 3
113	3GFF	27	Division 3	Division 3

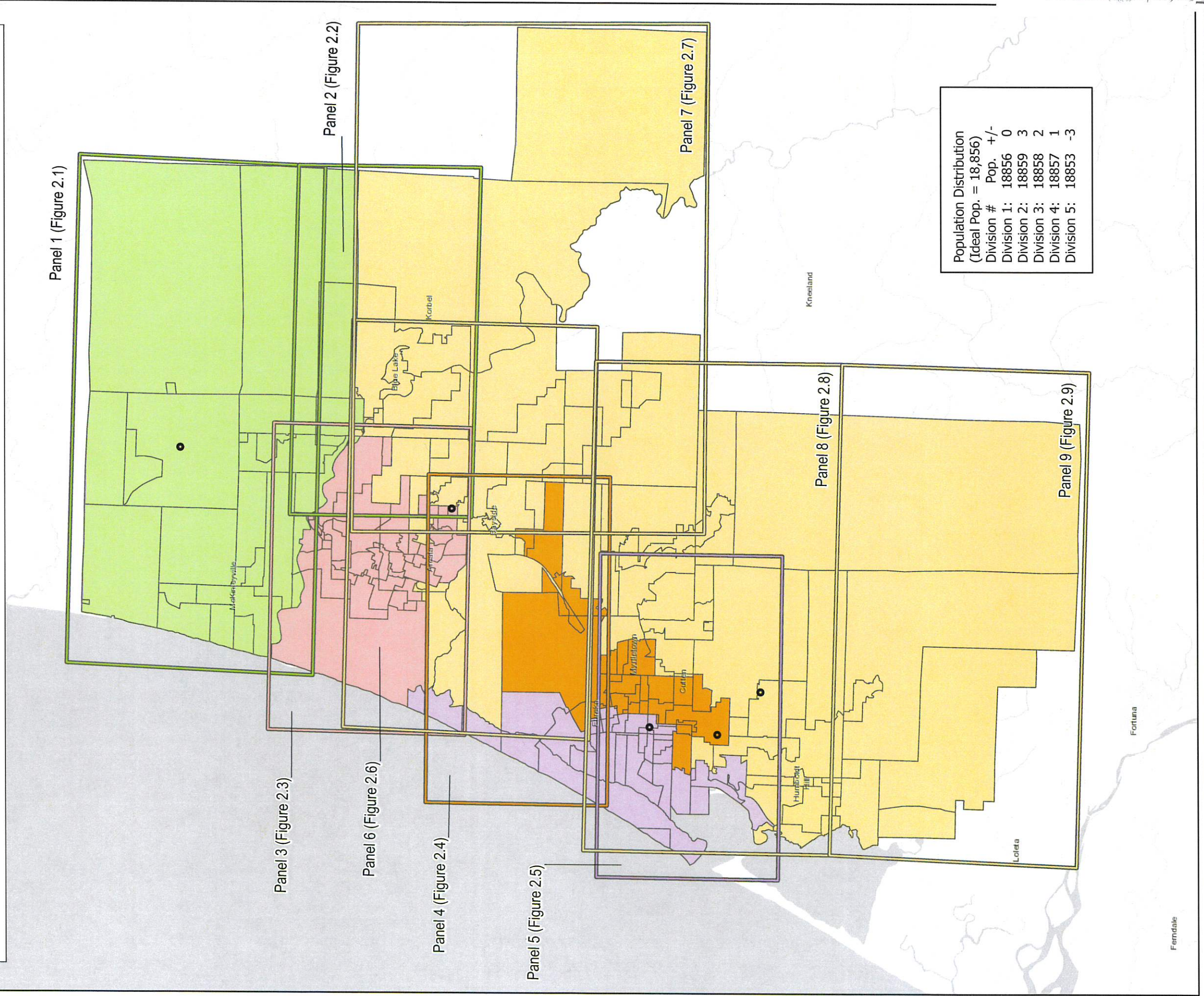
OID_	PRECINCT	Population	Scenario_2	Scenario_4
114	1CS-3	1027	Division 3	Division 3
115	3ESS6	413	Division 3	Division 3
116	1SB11	23	Division 3	Division 3
117	1SB-7A	0	Division 3	Division 3
118	3MA-3	6	Division 3	Division 1
119	5BL	84	Division 3	Division 3
120	3JCM	31	Division 3	Division 3
121	3JCM-1	4	Division 3	Division 3
122	1SB15	35	Division 3	Division 3
123	3GF	38	Division 3	Division 3
124	1SB14	128	Division 3	Division 3
125	5BLF	410	Division 3	Division 2
126	5AS-9	174	Division 3	Division 2
127	3BLF	0	Division 3	Division 2
128	3BLFS	0	Division 3	Division 2
129	3A--3A	415	Division 3	Division 5
130	3ES-9	48	Division 3	Division 3
131	3FWS	828	Division 3	Division 3
132	3ES-6	39	Division 3	Division 3
133	3JCM-2	0	Division 3	Division 3
134	3A-J3	206	Division 3	Division 3
136	3A-J5	0	Division 3	Division 3
137	3A-J4	30	Division 3	Division 3
138	3AS-8	211	Division 3	Division 2
139	1SB-3A	0	Division 3	Division 3
140	5BLF-3	17	Division 3	Division 2
141	3AS-11	0	Division 3	Division 2
143	3ES-11	140	Division 3	Division 3
144	3ES-10	6	Division 3	Division 3
145	3ES-12	0	Division 3	Division 3
146	3JCFRA	134	Division 4	Division 3
147	3E-4J	0	Division 4	Division 4
148	4E-4J	14	Division 4	Division 4
149	4FWS	0	Division 4	Division 4
150	4E-52	813	Division 4	Division 1
151	4E-44	1099	Division 4	Division 4
152	4E-43	720	Division 4	Division 4
153	4ES-4	946	Division 4	Division 4
154	4ES-5	904	Division 4	Division 4
155	4E-45	189	Division 4	Division 4
156	1E-37	1178	Division 4	Division 4
157	4ES-8	192	Division 4	Division 4
158	1E-47	1229	Division 4	Division 4
159	1E-38	1151	Division 4	Division 4
160	1ES-2	1457	Division 4	Division 4
161	1CS-1	1427	Division 4	Division 4
162	1ES-1	526	Division 4	Division 4
163	4E-4FW	0	Division 4	Division 4
164	4E-41	1511	Division 4	Division 4
165	4ES-3	873	Division 4	Division 4
166	4E-4F	4	Division 4	Division 4
167	4ES-6	1474	Division 4	Division 4
168	3JCWRA	86	Division 4	Division 3
170	4FW	0	Division 4	Division 4

OID_	PRECINCT	Population	Scenario_2	Scenario_4
171	1CS-2	1288	Division 4	Division 3
172	1E-48	154	Division 4	Division 4
173	4E-34	473	Division 4	Division 4
174	4E-46	393	Division 4	Division 4
175	4E-42	22	Division 4	Division 1
176	4E-57	108	Division 4	Division 4
177	4E-33	155	Division 4	Division 4
178	1E-39	88	Division 4	Division 4
179	4E-55	18	Division 4	Division 4
180	1ES-4	231	Division 4	Division 4
181	3PA-3A	176	Division 5	Division 1
183	3PA-3	48	Division 5	Division 5
184	3A-P8	402	Division 5	Division 5
185	3A-P2A	1422	Division 5	Division 5
186	3A-P7	0	Division 5	Division 5
187	3PA-2	422	Division 5	Division 5
188	3A-P6	469	Division 5	Division 5
189	3A-P3	327	Division 5	Division 5
190	3AS-3	82	Division 5	Division 5
191	3PA-1	142	Division 5	Division 5
192	3PA-6	12	Division 5	Division 5
193	3A-P4	464	Division 5	Division 5
194	3AS-2	15	Division 5	Division 5
195	3A-14	1264	Division 5	Division 5
196	3A-13	1131	Division 5	Division 5
197	3A-10	532	Division 5	Division 5
198	3A-11	1166	Division 5	Division 5
199	3A--9	940	Division 5	Division 5
200	3A-12	1087	Division 5	Division 5
201	3A-P1	0	Division 5	Division 5
202	3A--5A	674	Division 5	Division 5
203	3A--7	972	Division 5	Division 5
204	3A--6	600	Division 5	Division 5
205	3A--4	1398	Division 5	Division 5
206	3AS-5	113	Division 5	Division 5
207	3A--1	673	Division 5	Division 5
208	3A--3	863	Division 5	Division 5
209	3A--2	1119	Division 5	Division 5
210	3A-J2	264	Division 5	Division 5
211	3A-P5	10	Division 5	Division 5
212	3A-P2	1014	Division 5	Division 5
213	3PA-4	401	Division 5	Division 5
214	5PA-3	37	Division 5	Division 2
215	3A--5	485	Division 5	Division 5
216	3A-P10	0	Division 5	Division 5
217	3A-P9	91	Division 5	Division 5
218	3AS-12	38	Division 5	Division 5

**Legend**

<b>Board Member Location</b>	<b>Scenario 2</b>	<b>Division of Interest</b>	<b>Panel 6: Division 3</b>
● Division 1	■ Division 1	■ Panel 1: Division 2	■ Panel 7: Division 3
● Division 2	■ Division 2	■ Panel 2: Division 2	■ Panel 8: Division 3
● Division 3	■ Division 3	■ Panel 3: Division 5 and 1	■ Panel 9: Division 3
● Division 4	■ Division 4	■ Panel 4: Division 1 and 4	
● Division 5	■ Division 5	■ Panel 5: Division 1 and 4	

Each of the Panels correspond with a figure in the map book.



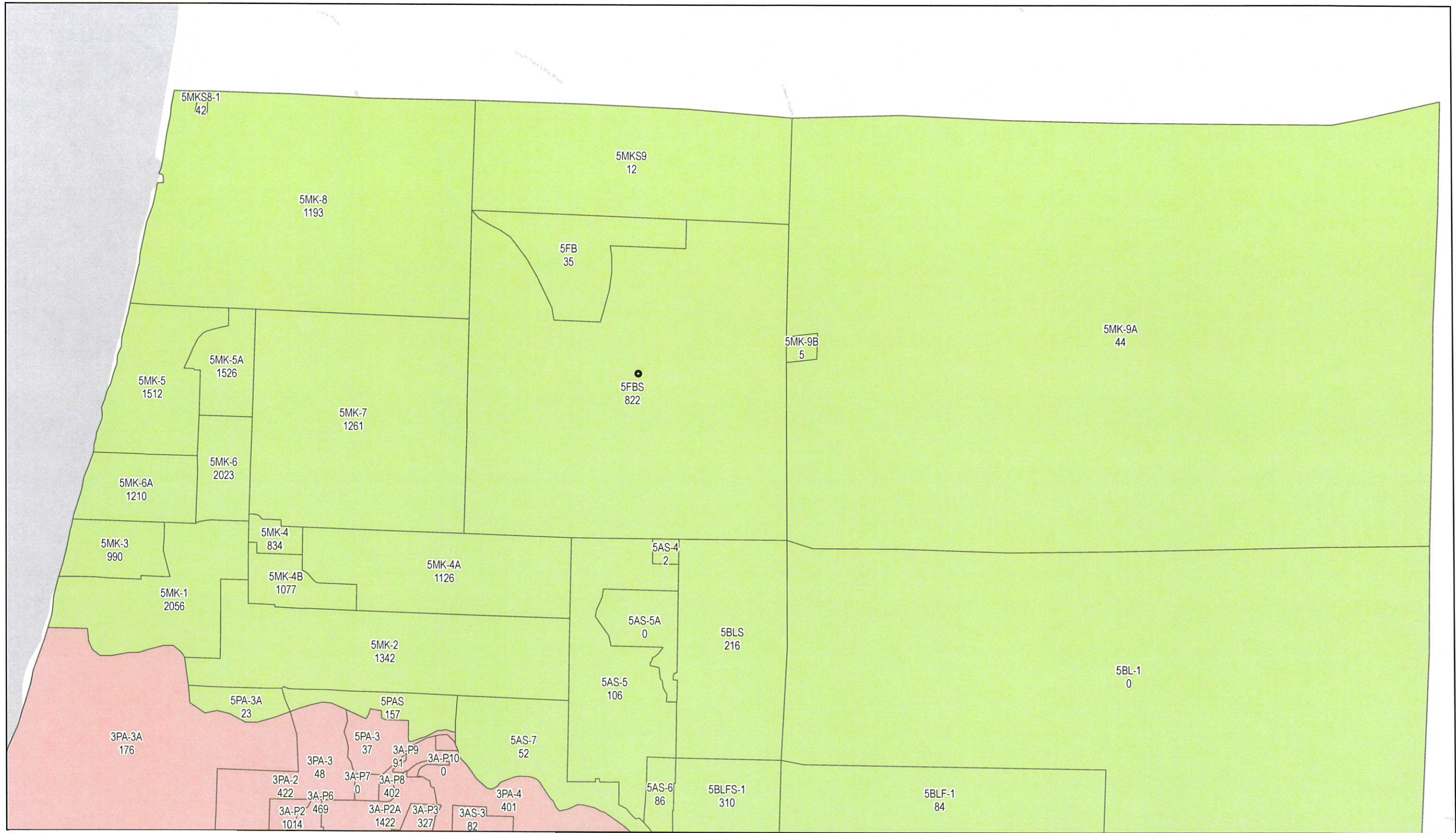
Humboldt Bay Municipal Water District  
Division Boundary Redistricting

**GHD**

Project No. 12572230  
Revision No. A  
Date Mar 2022

Division Boundary Redistricting  
**Scenario: 2 Overview**

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 5401 Feet  
Print date: 16 Mar 2022 - 08:21



- Legend**
- Board Member Location
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2

- Scenario 2
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

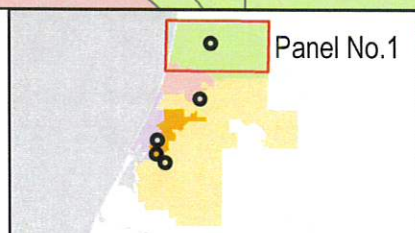
Population Distribution  
(Ideal Pop. = 18,856)

Division #	Pop. +/-
Division 1:	18,856 0
Division 2:	18,859 3
Division 3:	18,858 2
Division 4:	18,857 1
Division 5:	18,853 -3

Precinct Label Example

5MK - 2      ——— Precinct No.

1342         ——— Population



Paper Size ANSI B

Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

Humboldt Bay Municipal Water District  
Division Boundary Redistricting

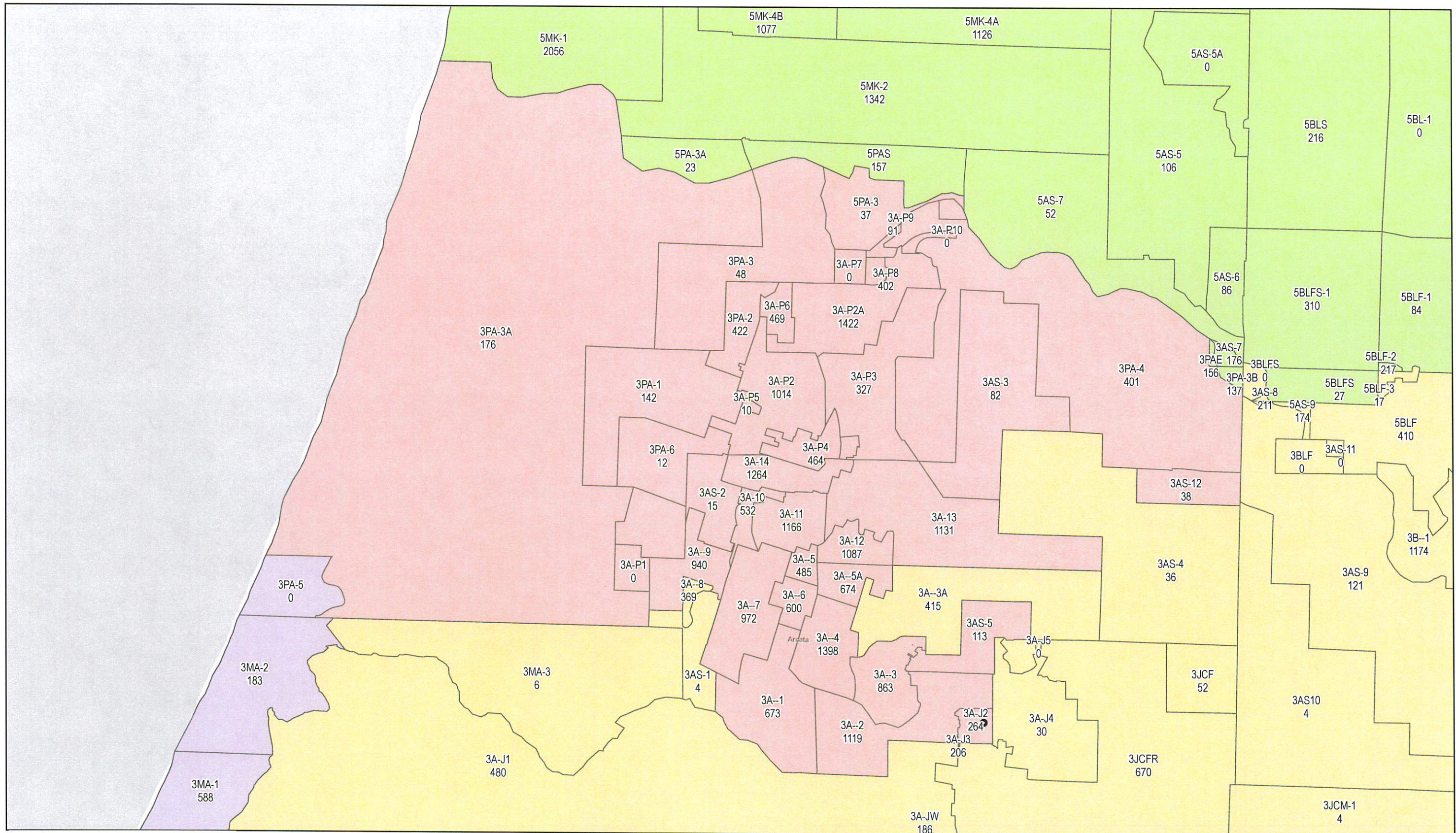
**Division Boundary Redistricting  
Panel Map for Scenario: 2**

Project No. 12572230  
Revision No. A  
Date Mar 2022

**FIGURE 2.1**

World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Canvas Base: Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA  
World Light Gray Reference: Esri, HERE, Garmin, USGS, EPA  
Print date: 16 Mar 2022 - 05:55





- Legend**
- Board Member Location
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2

- Scenario 2
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

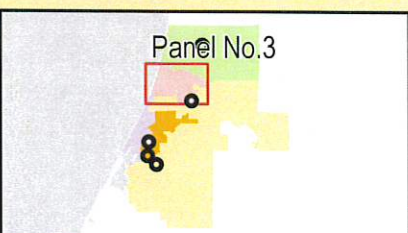
Population Distribution  
(Ideal Pop. = 18,856)

Division #	Pop. +/-
Division 1:	18,856 0
Division 2:	18,859 3
Division 3:	18,858 2
Division 4:	18,857 1
Division 5:	18,853 -3

Precinct Label Example

5MK - 2 ——— Precinct No.

1342 ——— Population



Paper Size ANSI B

0 0.15 0.3 0.45 0.6 Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

Print date: 16 Mar 2022 - 06:55



Humboldt Bay Municipal Water District  
Division Boundary Redistricting

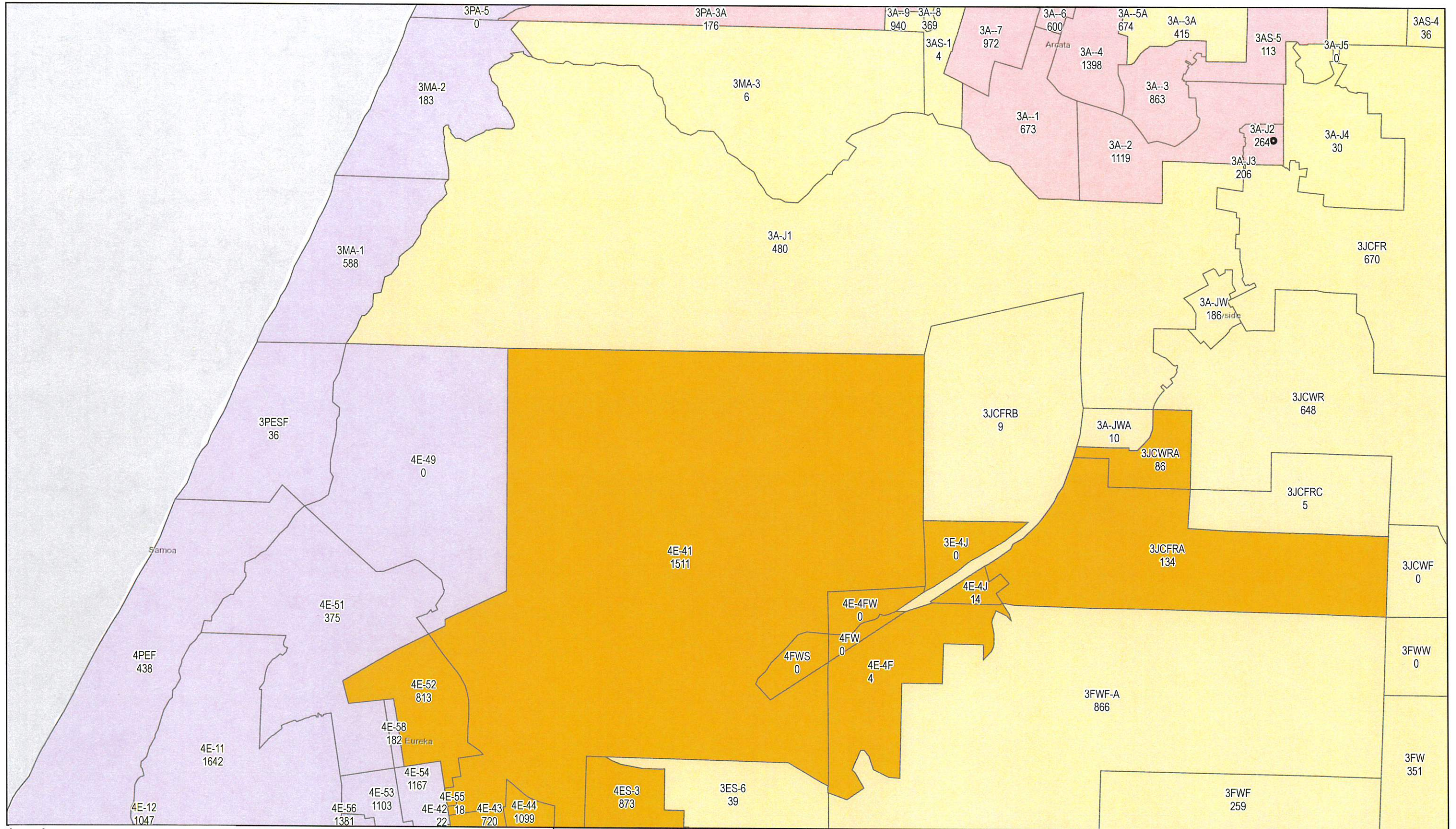
**Division Boundary Redistricting  
Panel Map for Scenario: 2**

Project No. 12572230  
Revision No. A  
Date Mar 2022

**FIGURE 2.3**

Data source: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Canvas Base: Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA  
World Light Gray Reference: Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Reference: Esri, HERE, Garmin, USGS, EPA, NPS





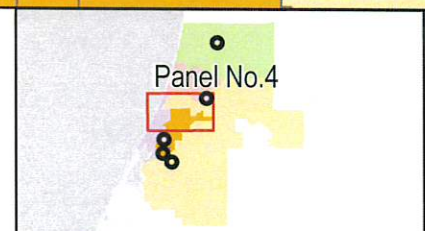
- Legend**
- Board Member Location
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2

- Scenario 2
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

Population Distribution  
(Ideal Pop. = 18,856)

Division #	Pop.	+/-
Division 1:	18,856	0
Division 2:	18,859	3
Division 3:	18,858	2
Division 4:	18,857	1
Division 5:	18,853	-3

- Precinct Label Example
- 5MK - 2 — Precinct No.
  - 1342 — Population



Paper Size ANSI B

0 0.15 0.3 0.45 0.6 Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



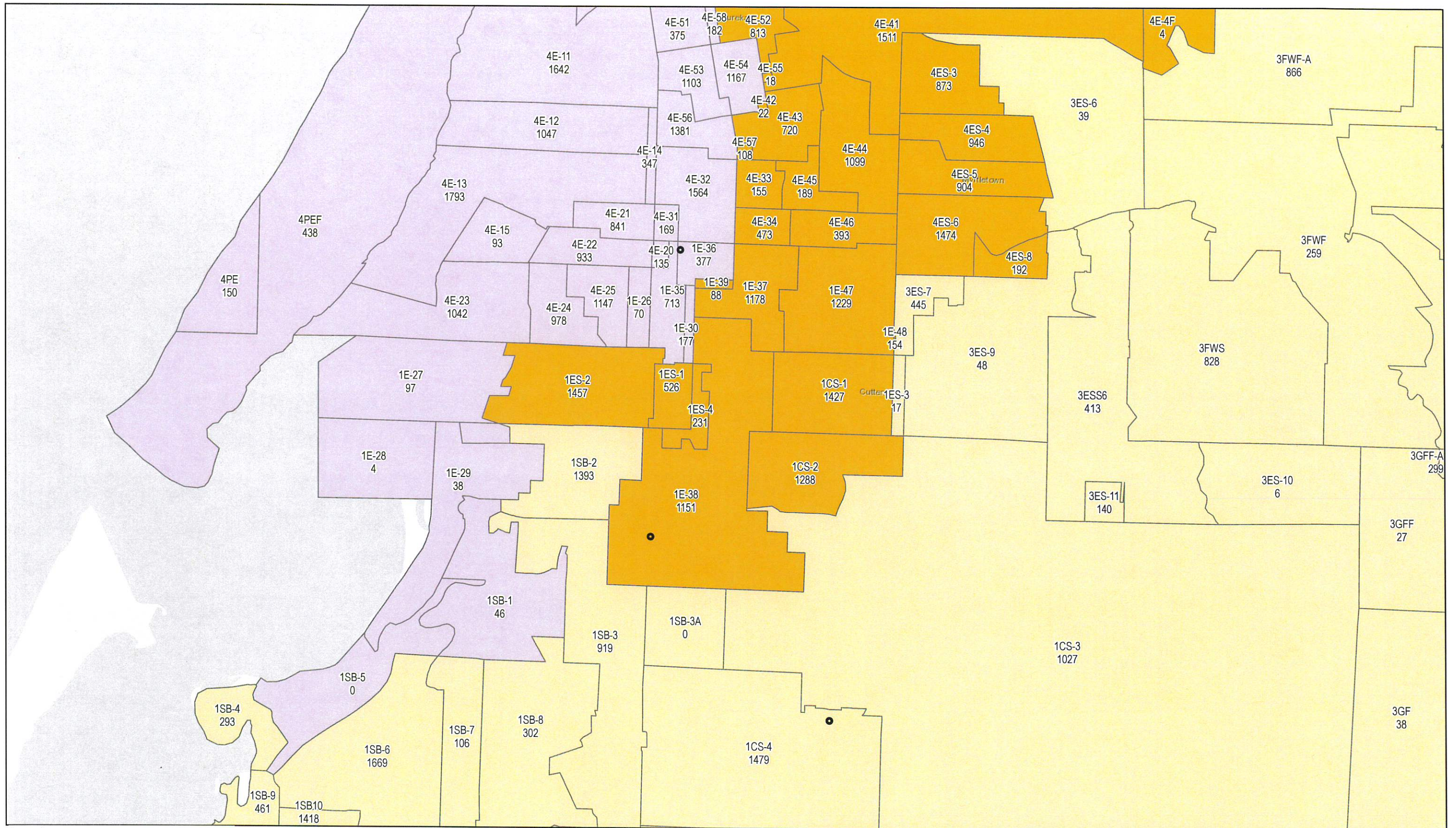
Humboldt Bay Municipal Water District  
Division Boundary Redistricting

**Division Boundary Redistricting  
Panel Map for Scenario: 2**

Project No. 12572230  
Revision No. A  
Date Mar 2022

**FIGURE 2.4**

Data source: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Canvas Base: Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA  
World Light Gray Reference: Esri, HERE, Garmin, USGS, EPA  
Print date: 16 Mar 2022 - 06:55



- Legend**
- Board Member Location
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2

- Scenario 2
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

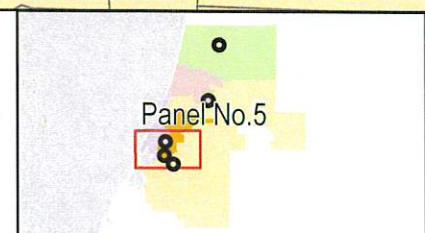
Population Distribution  
(Ideal Pop. = 18,856)

Division #	Pop.	+/-
Division 1:	18,856	0
Division 2:	18,859	3
Division 3:	18,858	2
Division 4:	18,857	1
Division 5:	18,853	-3

Precinct Label Example

5MK - 2 ——— Precinct No.

1342 ——— Population



Paper Size ANSI B

0 0.15 0.3 0.45 0.6 Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



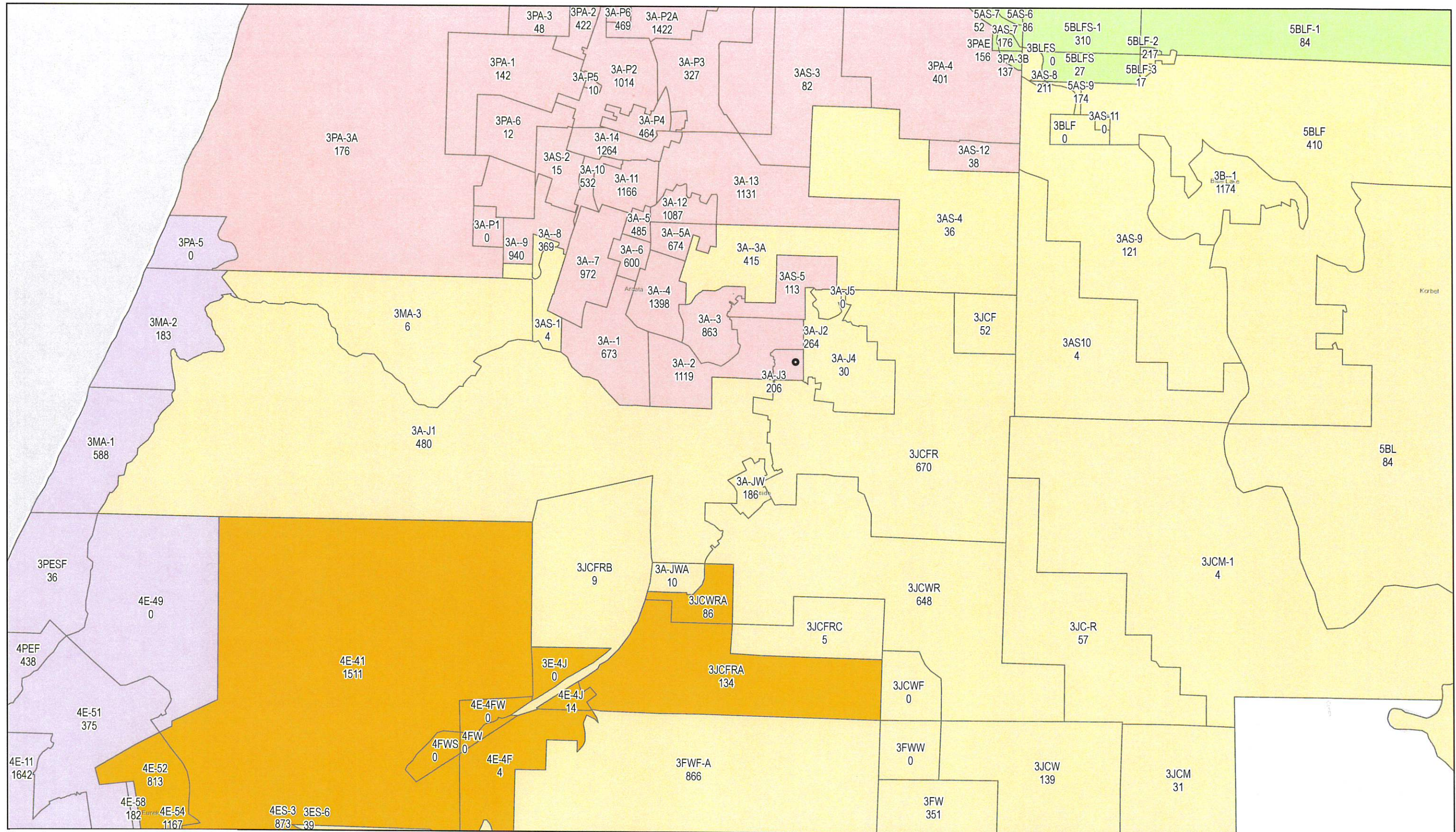
Humboldt Bay Municipal Water District  
Division Boundary Redistricting

**Division Boundary Redistricting  
Panel Map for Scenario: 2**

Project No. 12572230  
Revision No. A  
Date Mar 2022

**FIGURE 2.5**

Data source: World Light Gray Canvas Base, Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Canvas Base, Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA  
World Light Gray Reference, Esri, HERE, Created by: dpones3



- Legend**
- Board Member Location
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2

- Scenario 2
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

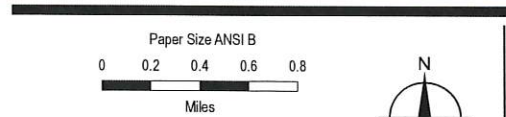
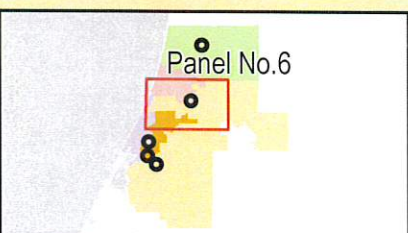
**Population Distribution**  
(Ideal Pop. = 18,856)

Division #	Pop.	+/-
Division 1:	18,856	0
Division 2:	18,859	3
Division 3:	18,858	2
Division 4:	18,857	1
Division 5:	18,853	-3

Precinct Label Example

5MK - 2 — Precinct No.

1342 — Population



Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



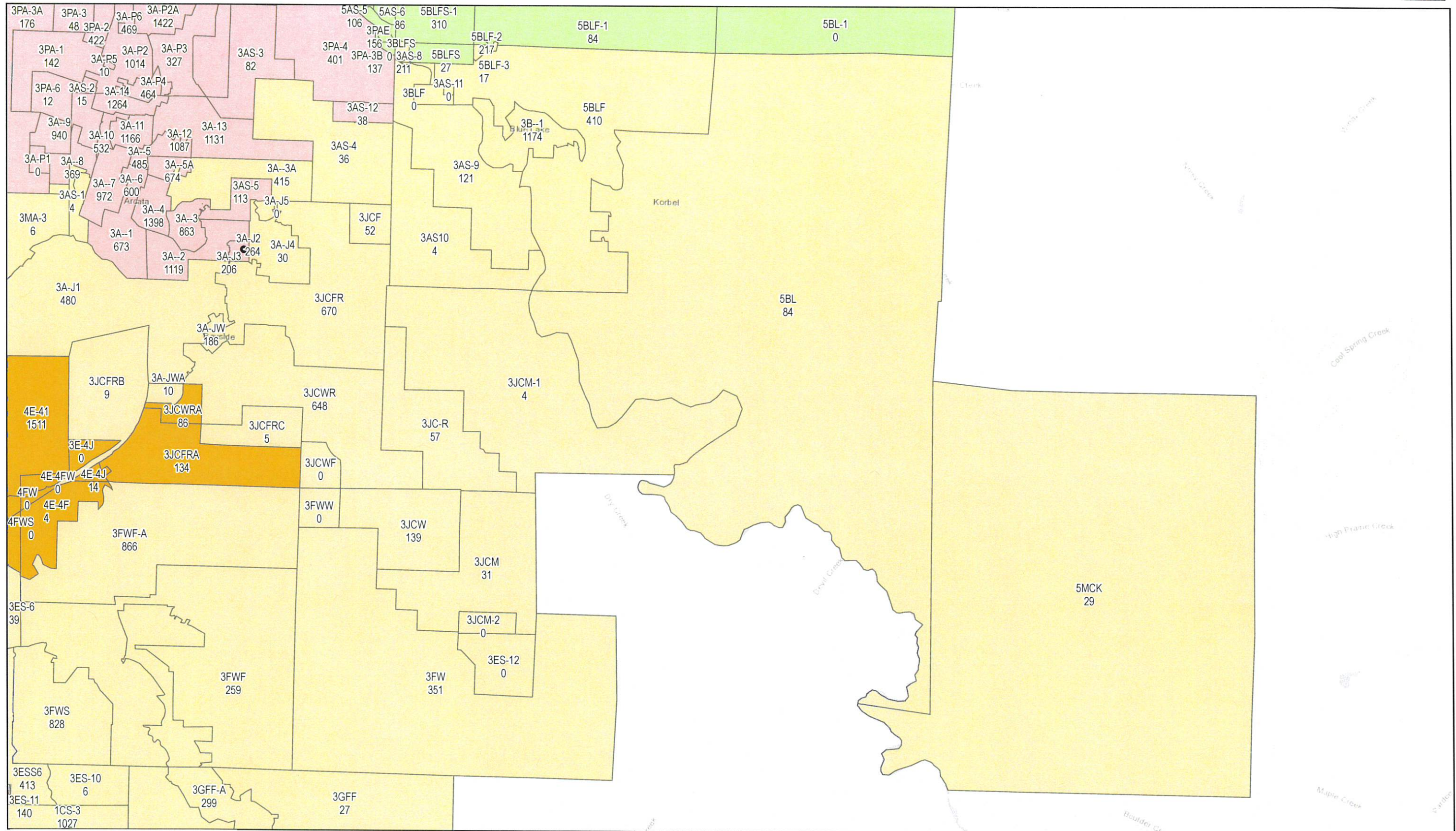
Humboldt Bay Municipal Water District  
Division Boundary Redistricting

**Division Boundary Redistricting**  
**Panel Map for Scenario 2**

Project No. 12572230  
Revision No. A  
Date Mar 2022

**FIGURE 2.6**

Data source: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Canvas Base: Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA  
World Light Gray Reference: Esri, HERE, Garmin, USGS, EPA  
Print date: 16 Mar 2022 - 06:55



- Legend**
- Board Member Location**
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2

- Scenario 2**
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

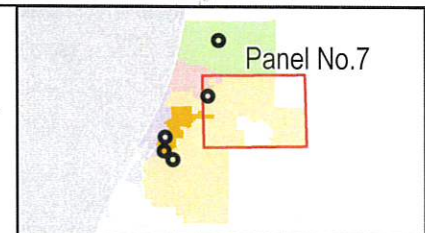
**Population Distribution**  
(Ideal Pop. = 18,856)

Division #	Pop.	+/-
Division 1:	18,856	0
Division 2:	18,859	3
Division 3:	18,858	2
Division 4:	18,857	1
Division 5:	18,853	-3

**Precinct Label Example**

5MK - 2 ——— Precinct No.

1342 ——— Population



Paper Size ANSI B

Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

Humboldt Bay Municipal Water District  
Division Boundary Redistricting

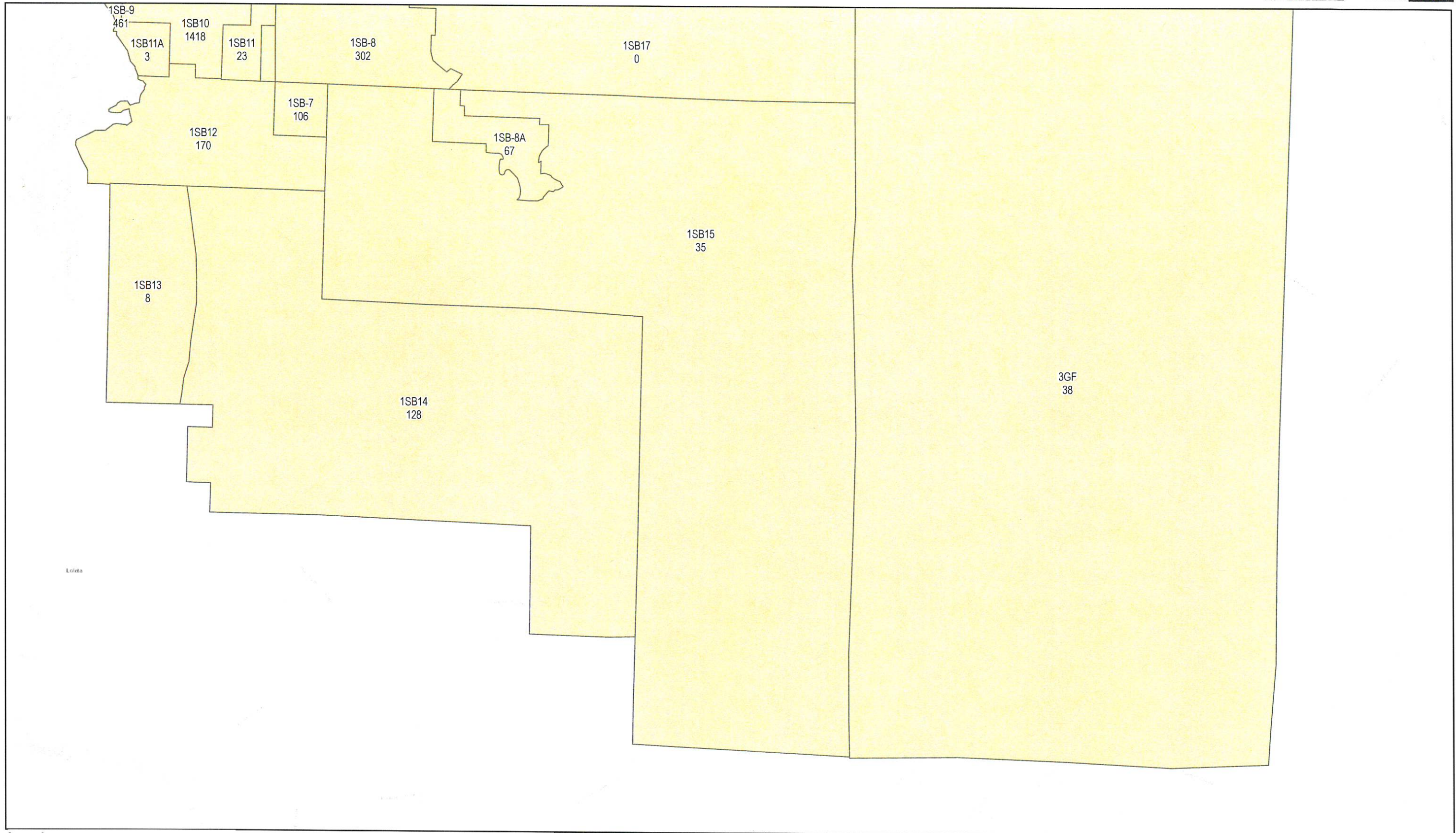
**Division Boundary Redistricting**  
**Panel Map for Scenario: 2**

Project No. 12572230  
Revision No. A  
Date Mar 2022

**FIGURE 2.7**

Data source: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Reference: Esri, HERE, NPS  
World Light Gray Canvas Base: Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA, NPS. Created by dgon3





<p><b>Legend</b></p> <p>Board Member Location</p> <ul style="list-style-type: none"> <li>● Div 1 - Pre 1E-36</li> <li>● Div 2 - Pre 5FBS</li> <li>● Div 3 - Pre 1CS-4</li> <li>● Div 4 - Pre 1E-38</li> <li>● Div 5 - Pre 3A-J2</li> </ul>	<p>Scenario 2</p> <ul style="list-style-type: none"> <li>□ Division 1</li> <li>□ Division 2</li> <li>□ Division 3</li> <li>□ Division 4</li> <li>□ Division 5</li> </ul>	<p>Population Distribution (Ideal Pop. = 18,856)</p> <table border="0"> <tr> <th>Division #</th> <th>Pop.</th> <th>+/-</th> </tr> <tr> <td>Division 1:</td> <td>18,856</td> <td>0</td> </tr> <tr> <td>Division 2:</td> <td>18,859</td> <td>3</td> </tr> <tr> <td>Division 3:</td> <td>18,858</td> <td>2</td> </tr> <tr> <td>Division 4:</td> <td>18,857</td> <td>1</td> </tr> <tr> <td>Division 5:</td> <td>18,853</td> <td>-3</td> </tr> </table>	Division #	Pop.	+/-	Division 1:	18,856	0	Division 2:	18,859	3	Division 3:	18,858	2	Division 4:	18,857	1	Division 5:	18,853	-3	<p>Precinct Label Example</p> <p>5MK - 2 — Precinct No.</p> <p>1342 — Population</p>	<p>Panel No. 9</p>	<p>Paper Size ANSI B</p> <p>0 0.25 0.5 0.75 1</p> <p>Miles</p> <p>Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet</p>		<p>Humboldt Bay Municipal Water District Division Boundary Redistricting</p> <p><b>Division Boundary Redistricting Panel Map for Scenario: 2</b></p>	<p>Project No. 12572230 Revision No. A Date Mar 2022</p> <p><b>FIGURE 2.9</b></p> <p><small>Data source: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS World Light Gray Reference: Esri, HERE, NPS World Light Gray Canvas Base: Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA, NPS. Created by: dpones3</small></p>
Division #	Pop.	+/-																								
Division 1:	18,856	0																								
Division 2:	18,859	3																								
Division 3:	18,858	2																								
Division 4:	18,857	1																								
Division 5:	18,853	-3																								

# Scenario 4

Sorted

OID_	PRECINCT	Population	Scenario_2	Scenario_4
1	3PA-5	0	Division 1	Division 1
2	4E-53	1103	Division 1	Division 1
3	1E-35	713	Division 1	Division 1
4	1E-36	377	Division 1	Division 1
5	4E-15	93	Division 1	Division 1
6	4E-24	978	Division 1	Division 1
7	4E-25	1147	Division 1	Division 1
8	4E-54	1167	Division 1	Division 1
9	4E-49	0	Division 1	Division 1
10	3MA-2	183	Division 1	Division 1
11	4PE	150	Division 1	Division 1
12	4PEF	438	Division 1	Division 1
13	3MA-1	588	Division 1	Division 1
14	3PESF	36	Division 1	Division 1
16	4E-20	135	Division 1	Division 1
17	4E-58	182	Division 1	Division 1
18	4E-11	1642	Division 1	Division 1
19	4E-56	1381	Division 1	Division 1
20	4E-14	347	Division 1	Division 1
21	4E-31	169	Division 1	Division 1
22	4E-32	1564	Division 1	Division 1
23	4E-21	841	Division 1	Division 1
24	4E-12	1047	Division 1	Division 1
25	4E-22	933	Division 1	Division 1
26	4E-13	1793	Division 1	Division 1
28	1E-26	70	Division 1	Division 1
29	1E-30	177	Division 1	Division 1
30	4E-51	375	Division 1	Division 1
31	5PA-3A	23	Division 2	Division 1
32	3MA-3	6	Division 3	Division 1
33	4E-52	813	Division 4	Division 1
35	4E-42	22	Division 4	Division 1
36	3PA-3A	176	Division 5	Division 1
37	5MK-9A	44	Division 2	Division 2
38	5MKS9	12	Division 2	Division 2
39	5FBS	822	Division 2	Division 2
40	5FB	35	Division 2	Division 2
41	5MK-7	1261	Division 2	Division 2
42	5MK-3	990	Division 2	Division 2
43	5MK-1	2056	Division 2	Division 2
44	5AS-5	106	Division 2	Division 2
45	5AS-4	2	Division 2	Division 2
46	5BLS	216	Division 2	Division 2
47	5PAS	157	Division 2	Division 2
48	5AS-6	86	Division 2	Division 2
49	5MK-8	1193	Division 2	Division 2
50	5BLFS	27	Division 2	Division 2
51	5MK-2	1342	Division 2	Division 2
52	5AS-7	52	Division 2	Division 2
53	3PAE	156	Division 2	Division 2
54	5BLFS-1	310	Division 2	Division 2
55	5BLF-1	84	Division 2	Division 2
56	5BL-1	0	Division 2	Division 2
57	5MKS8-1	42	Division 2	Division 2



OID_	PRECINCT	Population	Scenario_2	Scenario_4
58	5MK-5A	1526	Division 2	Division 2
59	5MK-5	1512	Division 2	Division 2
60	5MK-6	2023	Division 2	Division 2
61	5MK-6A	1210	Division 2	Division 2
62	5MK-4	834	Division 2	Division 2
63	5MK-4A	1126	Division 2	Division 2
64	5MK-4B	1077	Division 2	Division 2
65	3AS-7	176	Division 2	Division 2
66	5AS-5A	0	Division 2	Division 2
67	5MK-9B	5	Division 2	Division 2
68	5BLF-2	217	Division 2	Division 2
69	3B--1	1174	Division 3	Division 2
70	3AS-9	121	Division 3	Division 2
71	3AS10	4	Division 3	Division 2
72	5BLF	410	Division 3	Division 2
73	5AS-9	174	Division 3	Division 2
74	3BLF	0	Division 3	Division 2
75	3BLFS	0	Division 3	Division 2
76	3AS-8	211	Division 3	Division 2
77	5BLF-3	17	Division 3	Division 2
78	3AS-11	0	Division 3	Division 2
79	5PA-3	37	Division 5	Division 2
80	4E-23	1042	Division 1	Division 3
81	1E-28	4	Division 1	Division 3
82	1SB-1	46	Division 1	Division 3
83	1E-29	38	Division 1	Division 3
84	1SB-5	0	Division 1	Division 3
85	1E-27	97	Division 1	Division 3
86	3JCFR	670	Division 3	Division 3
87	5MCK	29	Division 3	Division 3
88	3A-JW	186	Division 3	Division 3
89	3JC-R	57	Division 3	Division 3
91	3JCWR	648	Division 3	Division 3
92	3JCFRB	9	Division 3	Division 3
93	3A-JWA	10	Division 3	Division 3
94	3JCFRC	5	Division 3	Division 3
95	3JCWF	0	Division 3	Division 3
96	3FWW	0	Division 3	Division 3
97	3JCW	139	Division 3	Division 3
99	3FW	351	Division 3	Division 3
100	3GFF-A	299	Division 3	Division 3
101	1SB-6	1669	Division 3	Division 3
102	1SB-4	293	Division 3	Division 3
103	1CS-4	1479	Division 3	Division 3
104	1SB-9	461	Division 3	Division 3
105	1SB10	1418	Division 3	Division 3
106	1SB17	0	Division 3	Division 3
107	1SB12	170	Division 3	Division 3
108	1SB-7	106	Division 3	Division 3
109	1SB13	8	Division 3	Division 3
110	1SB-2	1393	Division 3	Division 3
111	1SB11A	3	Division 3	Division 3
112	3FWF-A	866	Division 3	Division 3
113	1SB-3	919	Division 3	Division 3

OID_	PRECINCT	Population	Scenario_2	Scenario_4
114	1SB-8	302	Division 3	Division 3
115	1ES-3	17	Division 3	Division 3
116	1SB-8A	67	Division 3	Division 3
117	3FWF	259	Division 3	Division 3
118	3GFF	27	Division 3	Division 3
119	1CS-3	1027	Division 3	Division 3
120	3ESS6	413	Division 3	Division 3
121	1SB11	23	Division 3	Division 3
122	1SB-7A	0	Division 3	Division 3
123	5BL	84	Division 3	Division 3
124	3JCM	31	Division 3	Division 3
125	3JCM-1	4	Division 3	Division 3
126	1SB15	35	Division 3	Division 3
127	3GF	38	Division 3	Division 3
128	1SB14	128	Division 3	Division 3
129	3ES-9	48	Division 3	Division 3
130	3FWS	828	Division 3	Division 3
131	3ES-6	39	Division 3	Division 3
132	3JCM-2	0	Division 3	Division 3
133	3A-J3	206	Division 3	Division 3
134	3A-J5	0	Division 3	Division 3
136	3A-J4	30	Division 3	Division 3
137	1SB-3A	0	Division 3	Division 3
138	3ES-11	140	Division 3	Division 3
139	3ES-10	6	Division 3	Division 3
140	3ES-12	0	Division 3	Division 3
141	3JCFRA	134	Division 4	Division 3
143	3JCWRA	86	Division 4	Division 3
144	1CS-2	1288	Division 4	Division 3
145	3A-J1	480	Division 3	Division 4
146	3ES-7	445	Division 3	Division 4
147	3E-4J	0	Division 4	Division 4
148	4E-4J	14	Division 4	Division 4
149	4FWS	0	Division 4	Division 4
150	4E-44	1099	Division 4	Division 4
151	4E-43	720	Division 4	Division 4
152	4ES-4	946	Division 4	Division 4
153	4ES-5	904	Division 4	Division 4
154	4E-45	189	Division 4	Division 4
155	1E-37	1178	Division 4	Division 4
156	4ES-8	192	Division 4	Division 4
157	1E-47	1229	Division 4	Division 4
158	1E-38	1151	Division 4	Division 4
159	1ES-2	1457	Division 4	Division 4
160	1CS-1	1427	Division 4	Division 4
161	1ES-1	526	Division 4	Division 4
162	4E-4FW	0	Division 4	Division 4
163	4E-41	1511	Division 4	Division 4
164	4ES-3	873	Division 4	Division 4
165	4E-4F	4	Division 4	Division 4
166	4ES-6	1474	Division 4	Division 4
167	4FW	0	Division 4	Division 4
168	1E-48	154	Division 4	Division 4
170	4E-34	473	Division 4	Division 4

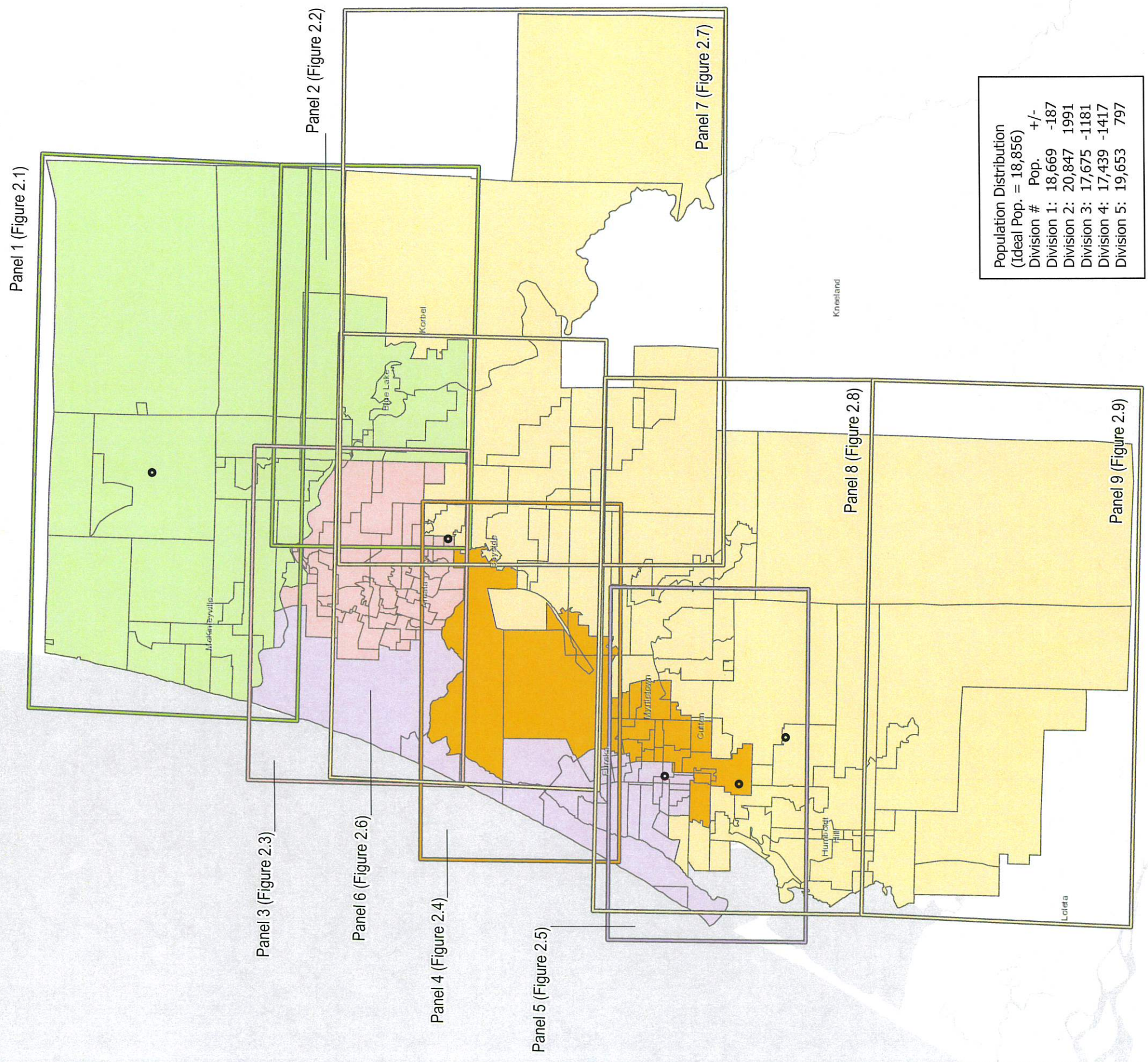
OID_	PRECINCT	Population	Scenario_2	Scenario_4
171	4E-46	393	Division 4	Division 4
172	4E-57	108	Division 4	Division 4
173	4E-33	155	Division 4	Division 4
174	1E-39	88	Division 4	Division 4
175	4E-55	18	Division 4	Division 4
176	1ES-4	231	Division 4	Division 4
177	3PA-3B	137	Division 2	Division 5
178	3AS-4	36	Division 3	Division 5
179	3A--8	369	Division 3	Division 5
180	3AS-1	4	Division 3	Division 5
181	3JCF	52	Division 3	Division 5
183	3A--3A	415	Division 3	Division 5
184	3PA-3	48	Division 5	Division 5
185	3A-P8	402	Division 5	Division 5
186	3A-P2A	1422	Division 5	Division 5
187	3A-P7	0	Division 5	Division 5
188	3PA-2	422	Division 5	Division 5
189	3A-P6	469	Division 5	Division 5
190	3A-P3	327	Division 5	Division 5
191	3AS-3	82	Division 5	Division 5
192	3PA-1	142	Division 5	Division 5
193	3PA-6	12	Division 5	Division 5
194	3A-P4	464	Division 5	Division 5
195	3AS-2	15	Division 5	Division 5
196	3A-14	1264	Division 5	Division 5
197	3A-13	1131	Division 5	Division 5
198	3A-10	532	Division 5	Division 5
199	3A-11	1166	Division 5	Division 5
200	3A--9	940	Division 5	Division 5
201	3A-12	1087	Division 5	Division 5
202	3A-P1	0	Division 5	Division 5
203	3A--5A	674	Division 5	Division 5
204	3A--7	972	Division 5	Division 5
205	3A--6	600	Division 5	Division 5
206	3A--4	1398	Division 5	Division 5
207	3AS-5	113	Division 5	Division 5
208	3A--1	673	Division 5	Division 5
209	3A--3	863	Division 5	Division 5
210	3A--2	1119	Division 5	Division 5
211	3A-J2	264	Division 5	Division 5
212	3A-P5	10	Division 5	Division 5
213	3A-P2	1014	Division 5	Division 5
214	3PA-4	401	Division 5	Division 5
215	3A--5	485	Division 5	Division 5
216	3A-P10	0	Division 5	Division 5
217	3A-P9	91	Division 5	Division 5
218	3AS-12	38	Division 5	Division 5

This page intentionally left blank.

**Legend**

<b>Board Member Location</b>	<b>Scenario 4</b>	<b>Division of Interest</b>	<b>Panel 6: Division 3</b>
● Division 1	■ Division 1	■ Panel 1: Division 2	■ Panel 7: Division 3
● Division 2	■ Division 2	■ Panel 2: Division 2	■ Panel 8: Division 3
● Division 3	■ Division 3	■ Panel 3: Division 5 and 1	■ Panel 9: Division 3
● Division 4	■ Division 4	■ Panel 4: Division 1 and 4	
● Division 5	■ Division 5	■ Panel 5: Division 1 and 4	

**Each of the Panels correspond with a figure in the map book.**

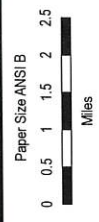
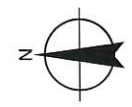


Population Distribution (Ideal Pop. = 18,856)	
Division #	Pop. +/-
Division 1:	18,669 -187
Division 2:	20,847 1991
Division 3:	17,675 -1181
Division 4:	17,439 -1417
Division 5:	19,653 797

Ferndale

Fortuna

Kneeland



Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California | FIPS 0401 Feet

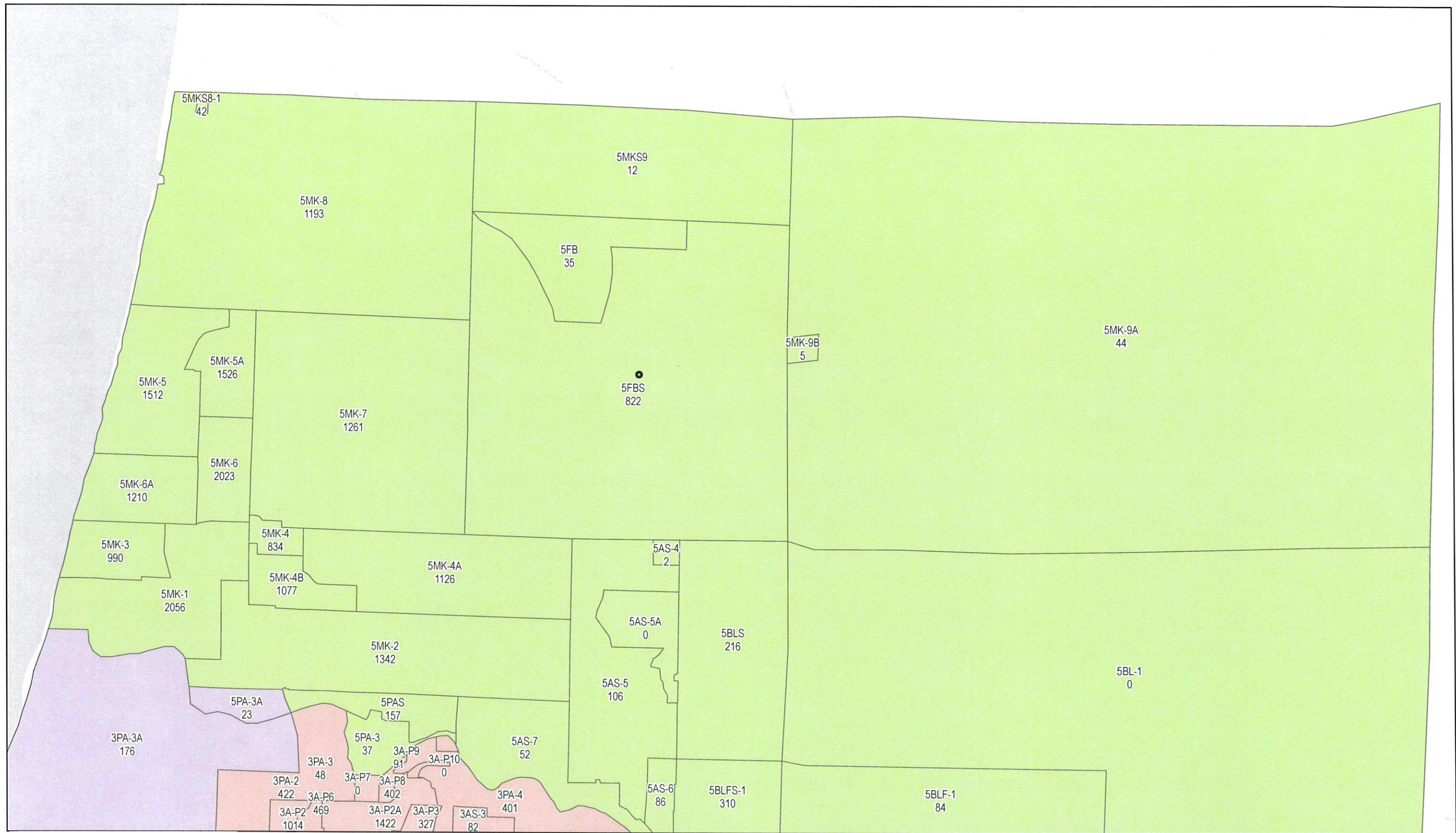
Project No. 12572230  
Revision No. A  
Date Mar 2022

Humboldt Bay Municipal Water District  
Division Boundary Redistricting

**Division Boundary Redistricting**  
**Scenario: 4 Overview**

**FIGURE 3**

Data source: World Light Gray Reference Etn, HERE, HERE, Garmin, USGS, EPA, NPS, Created by: gisnet3  
World Light Gray Canvas Base, Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA, NPS, Created by: gisnet3  
Print date: 10 Mar 2022 - 08:29



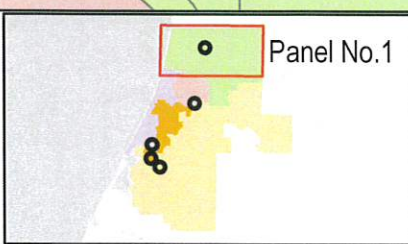
- Legend**
- Board Member Location
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2

- Scenario 4
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

**Population Distribution**  
(Ideal Pop. = 18,856)

Division #	Pop.	+/-
Division 1:	18,669	-187
Division 2:	20,847	1991
Division 3:	17,675	-1181
Division 4:	17,439	-1417
Division 5:	19,653	797

- Precinct Label Example
- 5MK - 2 — Precinct No.
  - 1342 — Population



Paper Size ANSI B

0 0.25 0.5 0.75 1 Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



Humboldt Bay Municipal Water District  
Division Boundary Redistricting

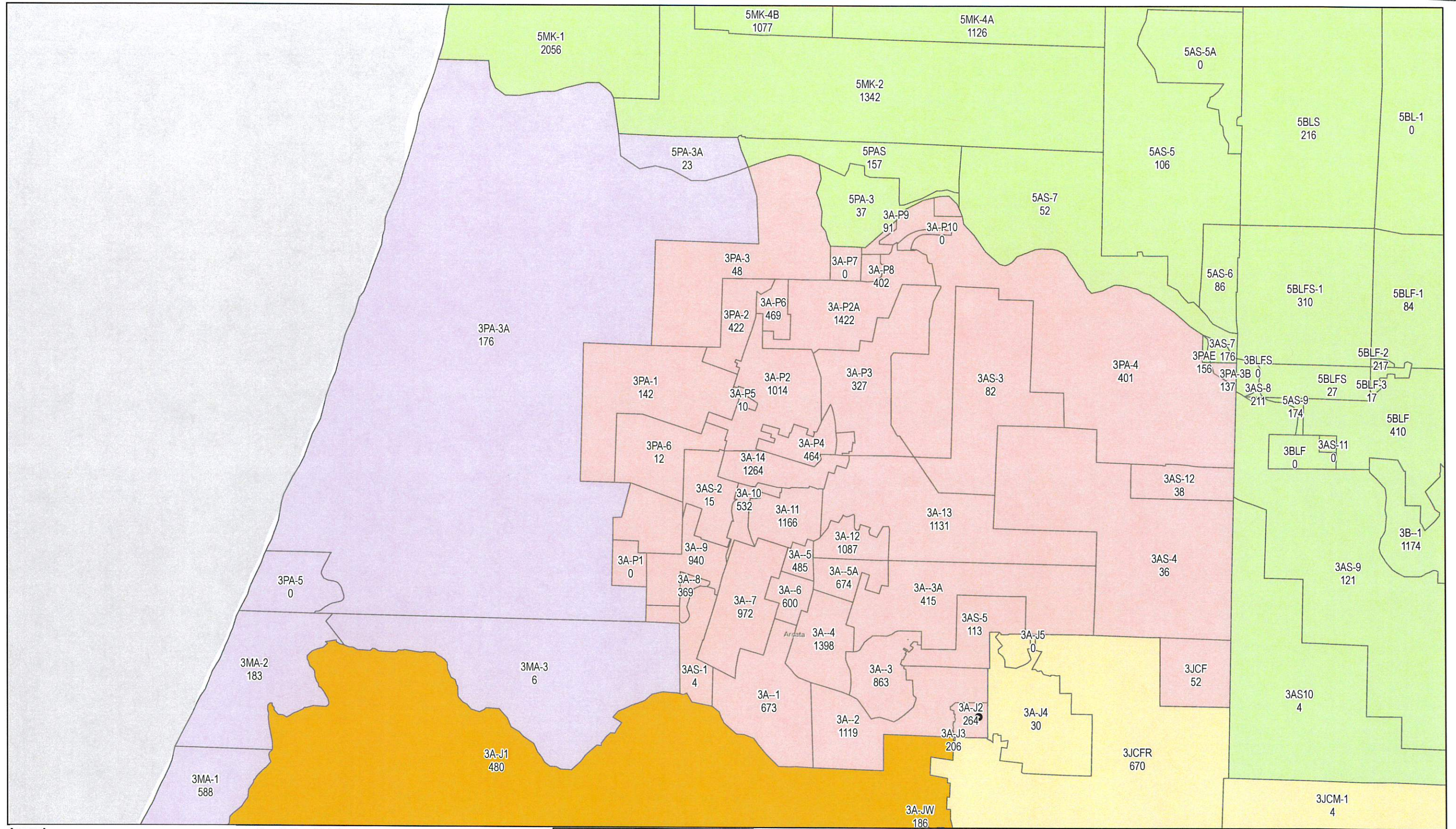
**Division Boundary Redistricting**  
Panel Map for Scenario: 4

Project No. 12572230  
Revision No. A  
Date Mar 2022

**FIGURE 4.1**

World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Reference: Esri, HERE  
Data source: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Reference: Esri, HERE  
Print date: 16 Mar 2022 - 08:17  
World Light Gray Canvas Base: Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA. Created by ipones3





- Legend**
- Board Member Location
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2

- Scenario 4
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

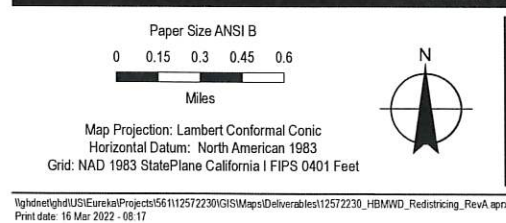
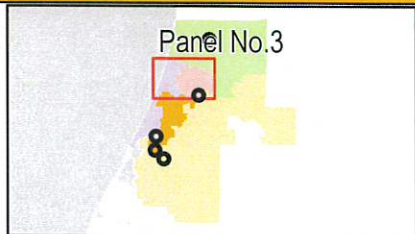
**Population Distribution**  
(Ideal Pop. = 18,856)

Division #	Pop. +/-
Division 1:	18,669 -187
Division 2:	20,847 1991
Division 3:	17,675 -1181
Division 4:	17,439 -1417
Division 5:	19,653 797

Precinct Label Example

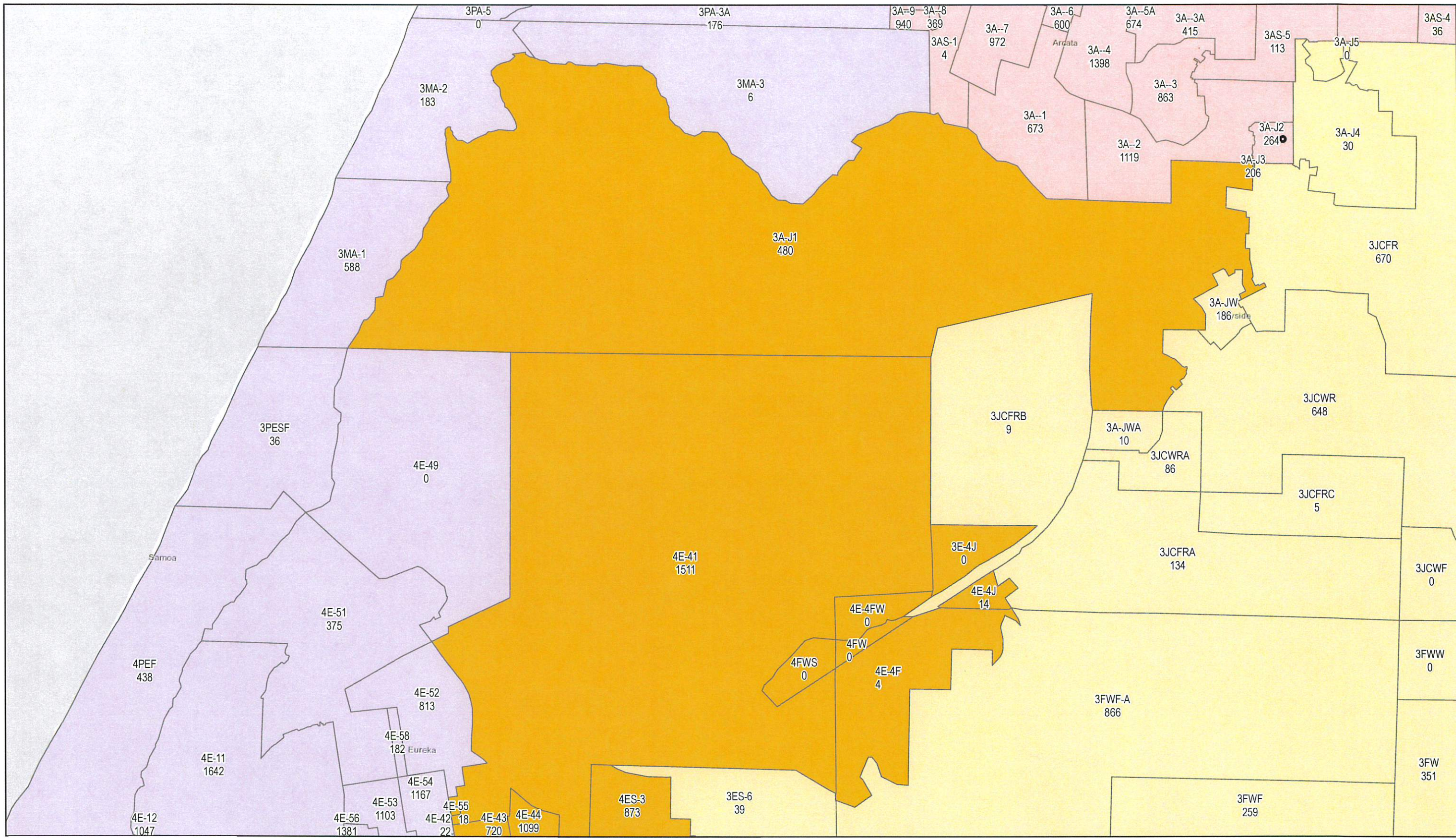
5MK - 2    ——— Precinct No.

1342        ——— Population



	<b>Humboldt Bay Municipal Water District</b> Division Boundary Redistricting	Project No. 12572230 Revision No. A Date Mar 2022
	<b>Division Boundary Redistricting</b> Panel Map for Scenario: 4	<b>FIGURE 4.3</b>
	Data source: World Light Gray Canvas Base, Esri, HERE, Garmin, USGS, EPA, NPS World Light Gray Reference, Esri, HERE World Light Gray Canvas Base: Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA, NPS Created by: dpones3	





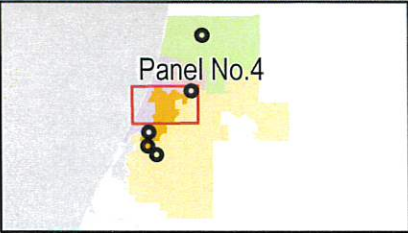
- Legend**
- Board Member Location
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2

- Scenario 4
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

**Population Distribution (Ideal Pop. = 18,856)**

Division #	Pop.	+/-
Division 1	18,669	-187
Division 2	20,847	1991
Division 3	17,675	-1181
Division 4	17,439	-1417
Division 5	19,653	797

- Precinct Label Example
- SMK - 2      — Precinct No.
- 1342        — Population



Paper Size ANSI B

0 0.15 0.3 0.45 0.6 Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



Humboldt Bay Municipal Water District  
Division Boundary Redistricting

**Division Boundary Redistricting  
Panel Map for Scenario: 4**

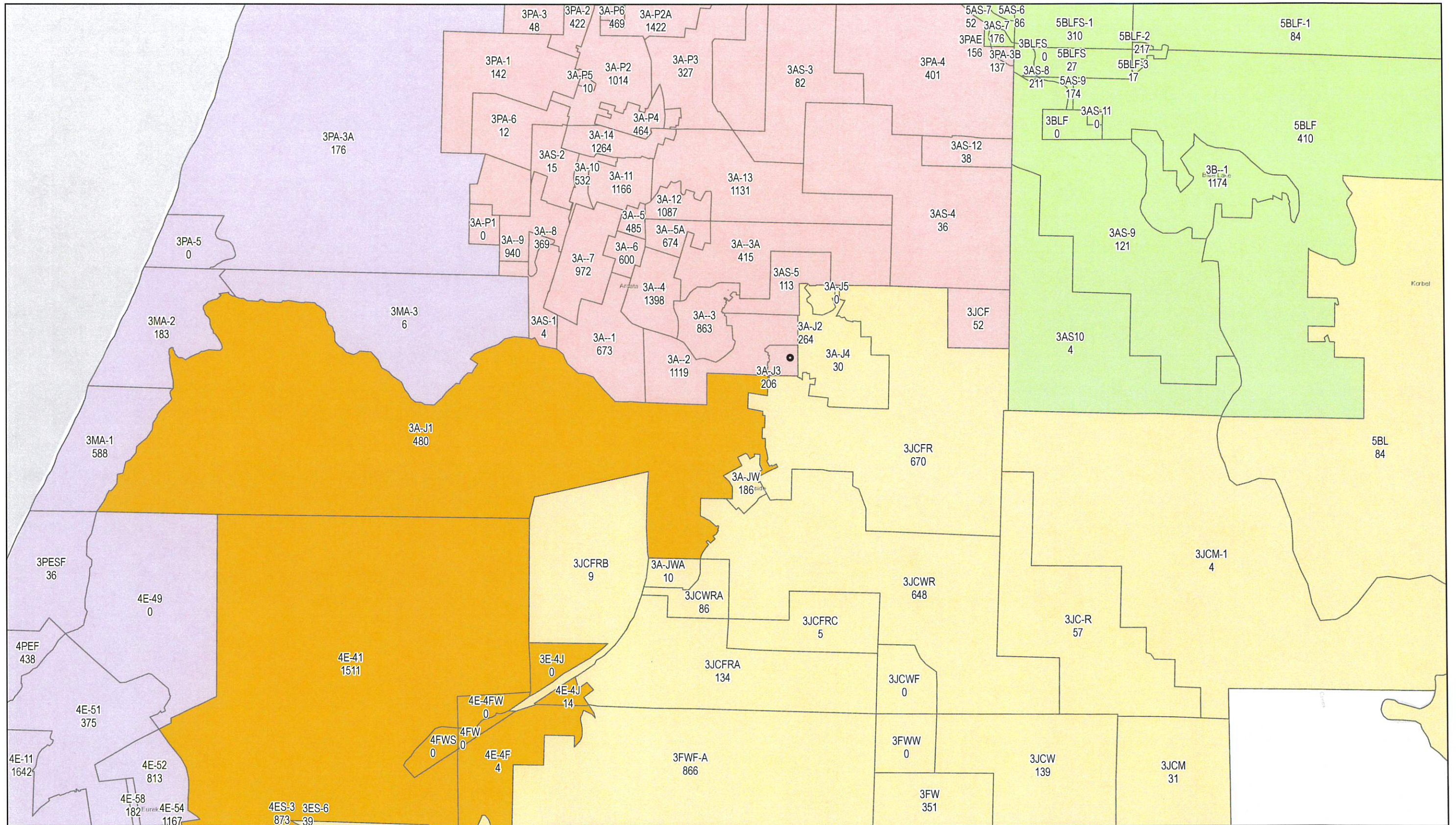
Project No. 12572230  
Revision No. A  
Date Mar 2022

**FIGURE 4.4**

\\ghdnet\ghd\US\IEureka\Projects\56112572230\GIS\Maps\Deliverables\12572230\_HBMWD\_Redistricting\_RevA.aprx  
Print date: 16 Mar 2022 - 08:17

Data source: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Reference: Esri, HERE  
World Light Gray Canvas Base: Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA. Created by dpones3





- Legend**
- Board Member Location
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2
- Scenario 4
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

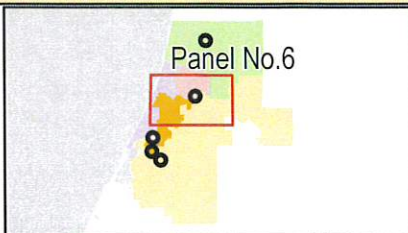
**Population Distribution**  
(Ideal Pop. = 18,856)

Division #	Pop.	+/-
Division 1	18,669	-187
Division 2	20,847	1991
Division 3	17,675	-1181
Division 4	17,439	-1417
Division 5	19,653	797

Precinct Label Example

5MK - 2    — Precinct No.

1342    — Population



Paper Size ANSI B

0 0.2 0.4 0.6 0.8

Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



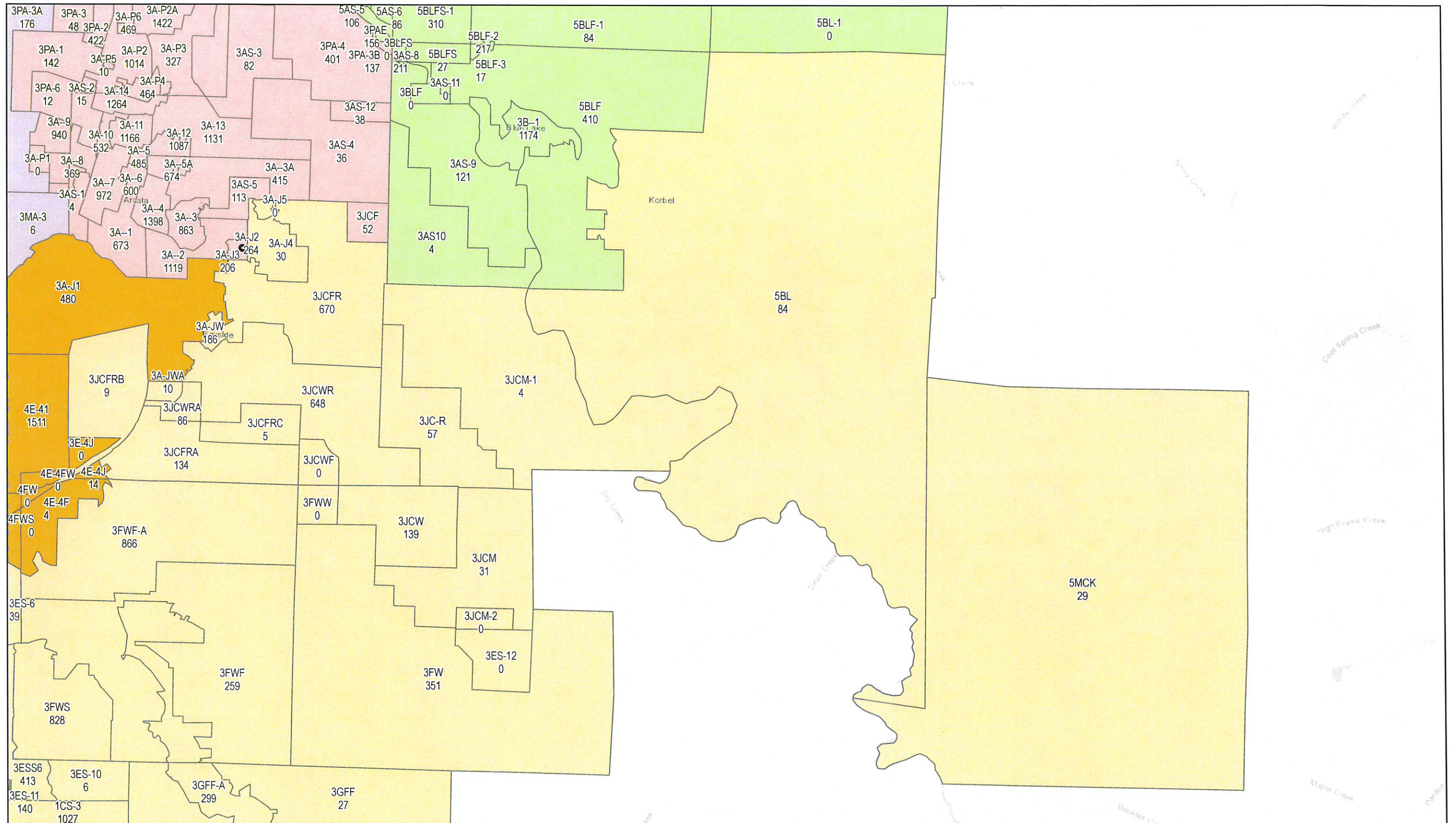
Humboldt Bay Municipal Water District  
Division Boundary Redistricting

**Division Boundary Redistricting**  
Panel Map for Scenario: 4

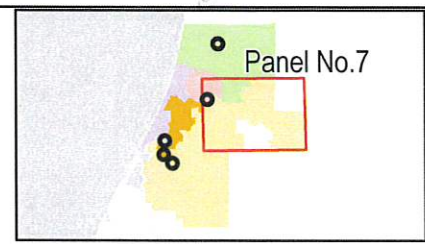
Project No. 12572230  
Revision No. A  
Date Mar 2022

**FIGURE 4.6**

Data source: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Reference: Esri, HERE  
World Light Gray Canvas Base: Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA. Created by: dpones3  
Print date: 16 Mar 2022 - 08:17



Board Member Location	Scenario 4	Population Distribution (Ideal Pop. = 18,856)	Precinct Label Example
● Div 1 - Pre 1E-36	Division 1	Division # Pop. +/-	5MK - 2
● Div 2 - Pre 5FBS	Division 2	Division 1: 18,669 -187	1342
● Div 3 - Pre 1CS-4	Division 3	Division 2: 20,847 1991	— Precinct No.
● Div 4 - Pre 1E-38	Division 4	Division 3: 17,675 -1181	— Population
● Div 5 - Pre 3A-J2	Division 5	Division 4: 17,439 -1417	
		Division 5: 19,653 797	



Paper Size ANSI B

Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

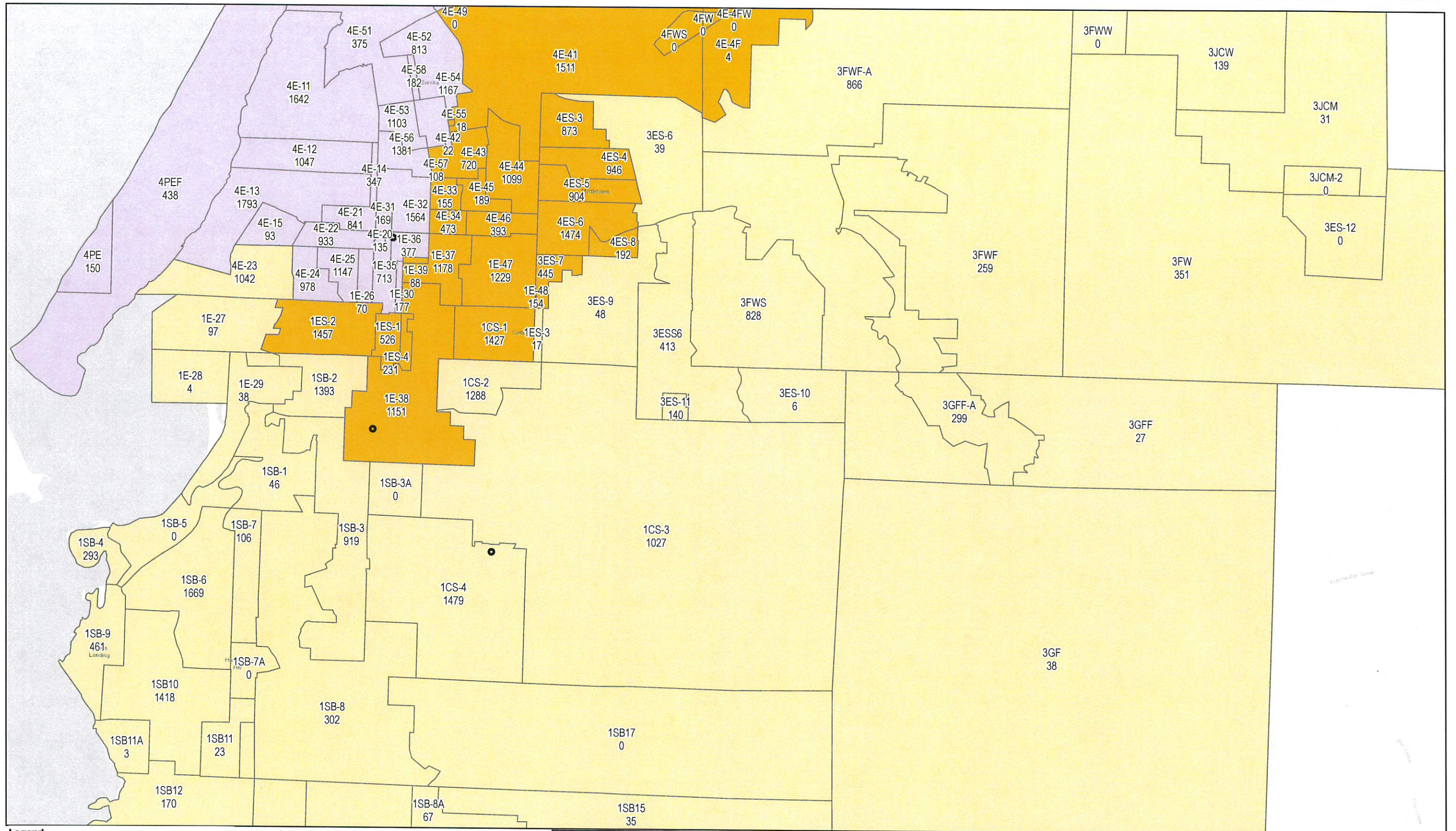
Humboldt Bay Municipal Water District  
Division Boundary Redistricting

**Division Boundary Redistricting  
Panel Map for Scenario: 4**

Project No. 12572230  
Revision No. A  
Date Mar 2022

**FIGURE 4.7**

\\ghdnet\ghd\US\Projects\12572230\GIS\Maps\Deliverables\12572230\_HBMWD\_Redistricting\_RevA.aprx  
Print date: 16 Mar 2022 - 08:17



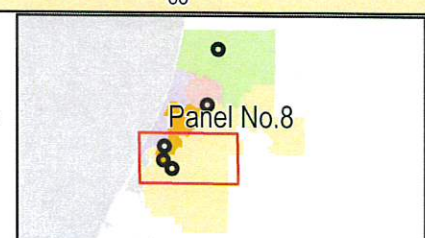
- Legend**
- Board Member Location
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2

- Scenario 4
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

Population Distribution  
(Ideal Pop. = 18,856)

Division #	Pop.	+/-
Division 1:	18,669	-187
Division 2:	20,847	1991
Division 3:	17,675	-1181
Division 4:	17,439	-1417
Division 5:	19,653	797

- Precinct Label Example
- SMK - 2 — Precinct No.
  - 1342 — Population



Paper Size ANSI B

Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

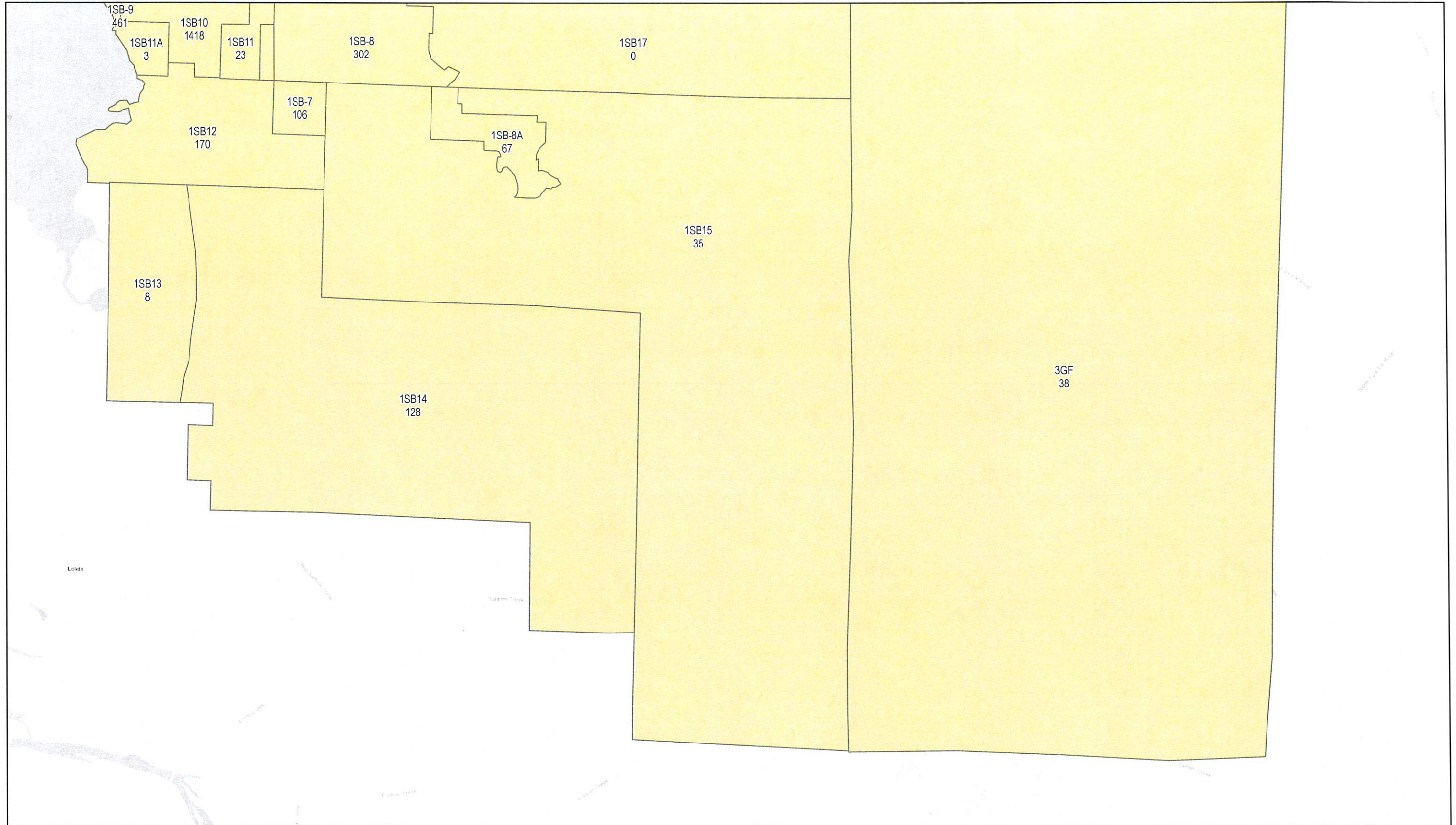
Humboldt Bay Municipal Water District  
Division Boundary Redistricting

**Division Boundary Redistricting  
Panel Map for Scenario: 4**

Project No. 12572230  
Revision No. A  
Date Mar 2022

**FIGURE 4.8**

\ghd\et\gh\US\Eureka\Projects\56112572230\GIS\Maps\Deliverables\12572230\_HBMWD\_Redistricting\_RevA.aprx  
 Print date: 16 Mar 2022 - 08:17  
 Data source: World Light Gray Canvas Base, Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA, NPS  
 World Light Gray Reference, Esri, HERE, NPS  
 World Light Gray Canvas Base, Esri, HERE, Garmin, USGS, EPA, NPS. Created by: djon3



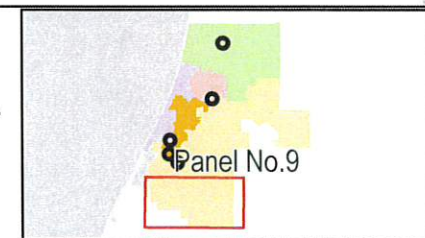
- Legend**
- Board Member Location
- Div 1 - Pre 1E-36
  - Div 2 - Pre 5FBS
  - Div 3 - Pre 1CS-4
  - Div 4 - Pre 1E-38
  - Div 5 - Pre 3A-J2

- Scenario 4
- Division 1
  - Division 2
  - Division 3
  - Division 4
  - Division 5

**Population Distribution**  
(Ideal Pop. = 18,856)

Division #	Pop.	+/-
Division 1:	18,669	-187
Division 2:	20,847	1991
Division 3:	17,675	-1181
Division 4:	17,439	-1417
Division 5:	19,653	797

- Precinct Label Example
- 5MK - 2      ——— Precinct No.
- 1342        ——— Population



<p>Paper Size ANSI B</p> <p>0 0.25 0.5 0.75 1</p> <p>Miles</p> <p>Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California 1 FIPS 0401 Feet</p>			<p>Humboldt Bay Municipal Water District Division Boundary Redistricting</p> <p><b>Division Boundary Redistricting</b> Panel Map for Scenario: 4</p>	<p>Project No. 12572230 Revision No. A Date Mar 2022</p> <p><b>FIGURE 4.9</b></p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------

\\ghdnet\ghd\USI\Email\Projects\56112572230\GIS\Maps\Deliverables\12572230\_HBMWD\_Redistricting\_RevA.aprx  
Print date: 16 Mar 2022 - 08:18

Data source: World Light Gray Canvas Base; Bureau of Land Management, Esri, HERE, Garmin, USGS, EPA, NPS  
World Light Gray Reference, Esri, HERE, NPS  
World Light Gray Canvas Base; Esri, HERE, Garmin, USGS, EPA, NPS. Created by: dpoes3