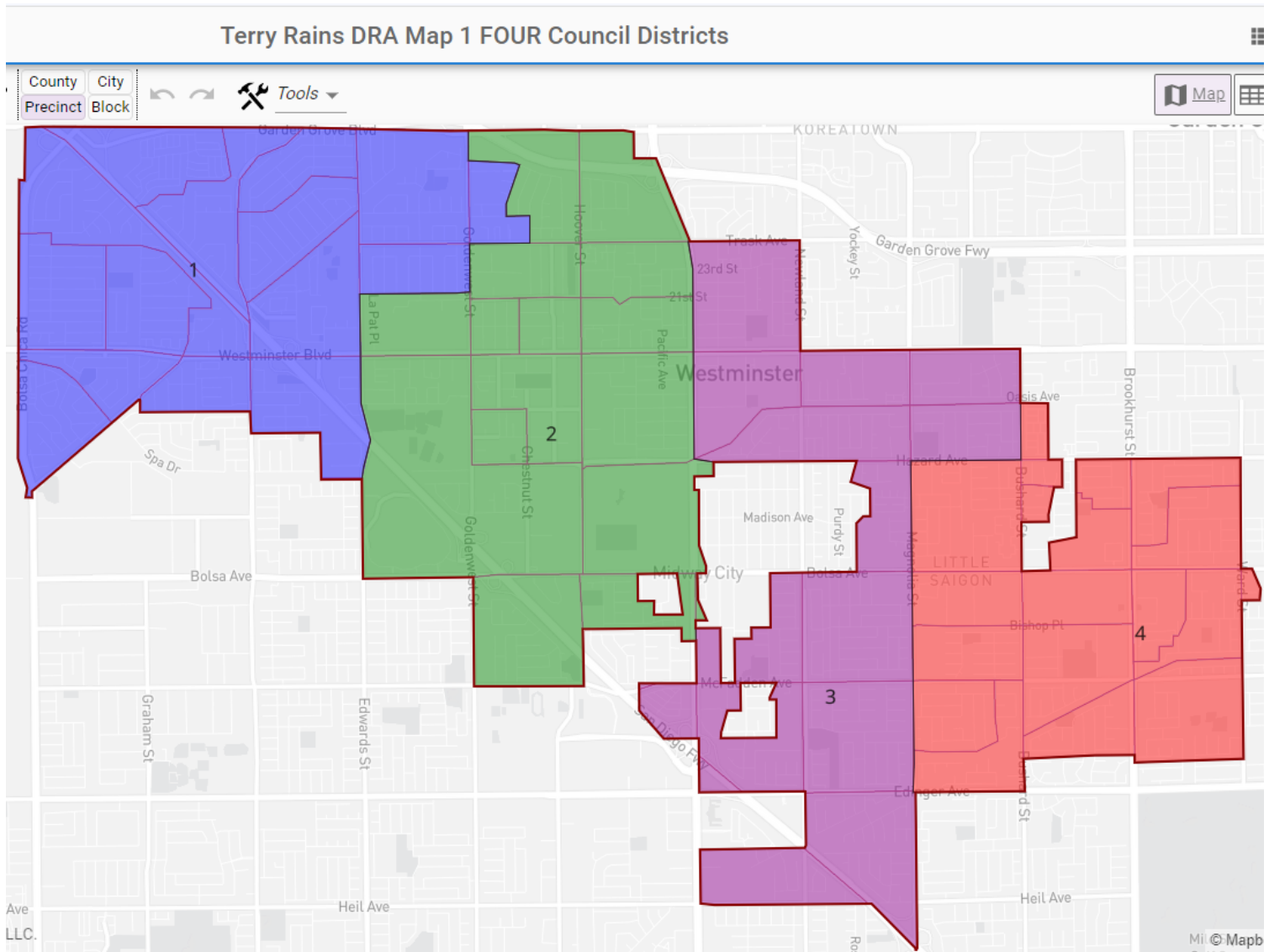


TERRY RAINS DAVE'S REDISTRICTING MAP 1 **FOUR DISTRICTS**

SUPPLEMENTAL SUMMARY OF KEY INFORMATION AND RATINGS 2/1/2022



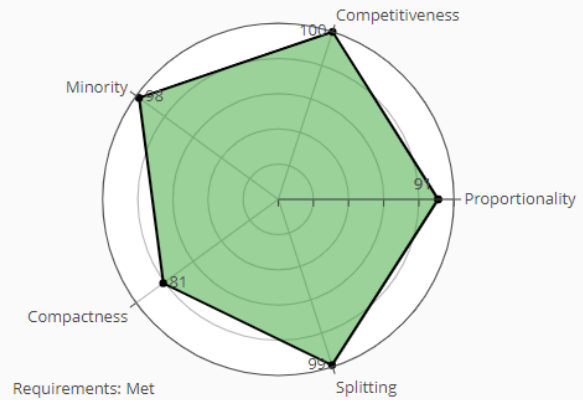
Terry Rains DRA Map 1 FOUR Council Districts

Population		Shapes		Partisan Lean			Demographics (CVAP)								DOWNLOAD
ID	Total	+/-	Envelope	Shape	Dem	Rep	Oth	Total	White	Minority	Hispanic	Black	Asian	Native	Pacific
Un	0				0.00%	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1	22,899	0.75%	✓	✓	47.56%	50.48%	1.96%	16,730	47.01%	52.99%	24.57%	1.70%	25.21%	0.29%	0.09%
2	23,390	2.91%	✓	✓	54.05%	43.94%	2.00%	14,178	23.00%	77.00%	25.96%	2.20%	47.44%	0.66%	0.57%
3	22,517	-0.93%	✓	✓	48.22%	50.29%	1.50%	16,252	25.83%	74.17%	14.64%	1.30%	57.14%	0.71%	0.00%
4	22,105	-2.74%	✓	✓	48.56%	50.01%	1.42%	15,641	17.88%	82.12%	9.10%	0.93%	71.00%	0.44%	0.17%
	22,728	5.65%	✓	✓	49.37%	48.91%	1.72%	15,700	28.85%	71.15%	18.46%	1.52%	49.89%	0.52%	0.20%

Notes

- The 5.65% population deviation is within the 10% threshold tolerated by the courts.
- No districts lean Republican, one leans Democratic, and three fall in the 45–55% competitive range.
- There are four majority-minority districts.

Ratings: Terry Rains DRA Map 1 FOUR Council Districts



Requirements

Redistricting maps must typically satisfy four constraints.

Check		Description
• Complete	✓	All precincts are assigned to districts
• Contiguous	✓	All precincts in districts are connected
• Free of holes	✓	No districts are embedded in others
• Equal population	✓	Districts have roughly equal populations

Rating

- This map meets basic requirements.

Notes

- The 5.65% population deviation is within the 10% threshold tolerated by the courts.

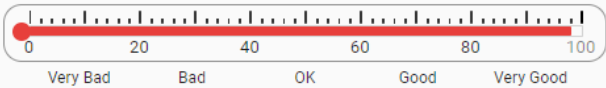
Minority Representation

All else equal, prefer maps that give minorities more opportunities to elect representatives.

District CVAP %	Potential Opportunity Districts (based on map)				
	Minority Hispanic	Black	Asian	Native	Pacific
35% ≤ CVAP < 40%	0	0	0	0	0
40% ≤ CVAP < 45%	0	0	0	0	0
45% ≤ CVAP < 50%	0	0	0	1	0
50% ≤ CVAP < 55%	1	0	0	0	0
55% ≤ CVAP < 60%	0	0	0	1	0
60% ≤ CVAP < 100%	3	0	0	1	0

	Proportional Seats (based on total CVAP %)					
	Minority	Hispanic	Black	Asian	Native	Pacific
Total CVAP %	71.15%	18.46%	1.52%	49.89%	0.52%	0.20%
Proportional Seats	3	1	0	2	0	0

Rating



Notes

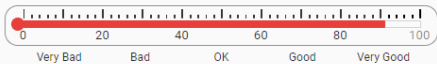
- Depending on how minorities are spread out across or concentrated within the map, it may not be possible to draw a proportional number of opportunity districts.

Proportionality

All else equal, prefer maps that are more proportional.

Metric	Description
Disproportionality	-1.99% The deviation from the number of whole seats closest to proportional. Smaller is better. By convention, positive values of bias metrics favor Republicans & negative values favor Democrats.

Rating



Notes

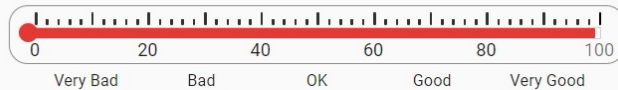
- The average map-wide Democratic two-party vote share is 50.23%, the Republican 49.77%.
- The number of Democratic seats closest to proportional is two. The likely number of Democratic seats is 2.08. The likely number of unexpected Democratic seats (won) lost is -0.08.

Splitting

All else equal, prefer maps that split counties across districts the least.

Metric	Description
County-district splitting	1.00 Measures how much counties are split across districts. Smaller is better.
District-county splitting	1.00 Measures how much districts are split across counties. Smaller is better.

Rating

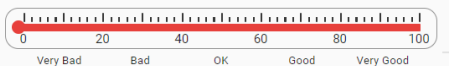


Competitiveness

All else equal, prefer maps that are more competitive.

Metric	Description
• Competitiveness	80.18% The percentage of competitive districts. Bigger is better.

Rating



Notes

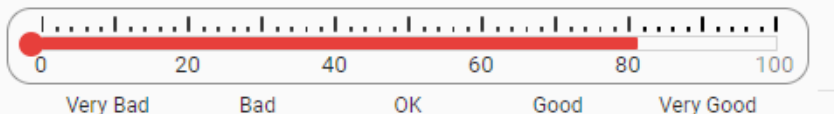
- Unlike the partisan lean note in district Statistics that simply counts the number of districts in the 45–55% range, this competitiveness metric uses a probability distribution with the tails approaching zero at 40% and 60%. Hence, an ideally competitive set of districts has a ~75% competitiveness.

Compactness

All else equal, prefer maps with districts that are more compact.

Metric	Description
• Reock	0.4836 Measures how dispersed district shapes are. Bigger is better.
• Polsby-Popper	0.3757 Measures how indented district shapes are. Bigger is better.

Rating



Narrative

Terry Rains DRA Map 1 Four Council Districts Analysis using Dave's Redistricting tools and database which might differ from other tools and databases in this process. All requirement metrics fall into the 80-100 **VERY GOOD** range – proportionality 97, minority representation 98, competitiveness 100, splitting 99, and compactness 81 primarily due to the Midway City unincorporated carve-out islands. The districts are contiguous, run north/south consistently, are easy to understand, have low geographic size deviation and provide clear, identifiable boundaries. Income, language spoken at home, and shopping districts are kept together. The city's adopted east/west boundary of Beach Blvd is preserved. The 405 freeway corridor is evenly distributed as are schools in the Westminster School District. The total population deviation is only 5.65%.

No districts lean Republican, only one leans slightly Democratic, and three fall in the 45–55% competitive range. All four districts are majority-minority districts. Hispanic CVAP (as defined in the Dave's tool and the state) is 25.96% in District 2 but not packed into just one district because District 1 is 24.57% Hispanic CVAP - both well above the city-wide average of 18.46% Hispanic CVAP. Districts 3 and 4 are majority-minority Asian CVAP districts (57.14% and 71.00% respectively) - both well above the city-wide average of 49.89% Asian CVAP and Asian CVAP are not packed into just one district. District 3 and especially District 4 definitely give Asian voters an advantage to elect from their demographic.