

Discussion Points

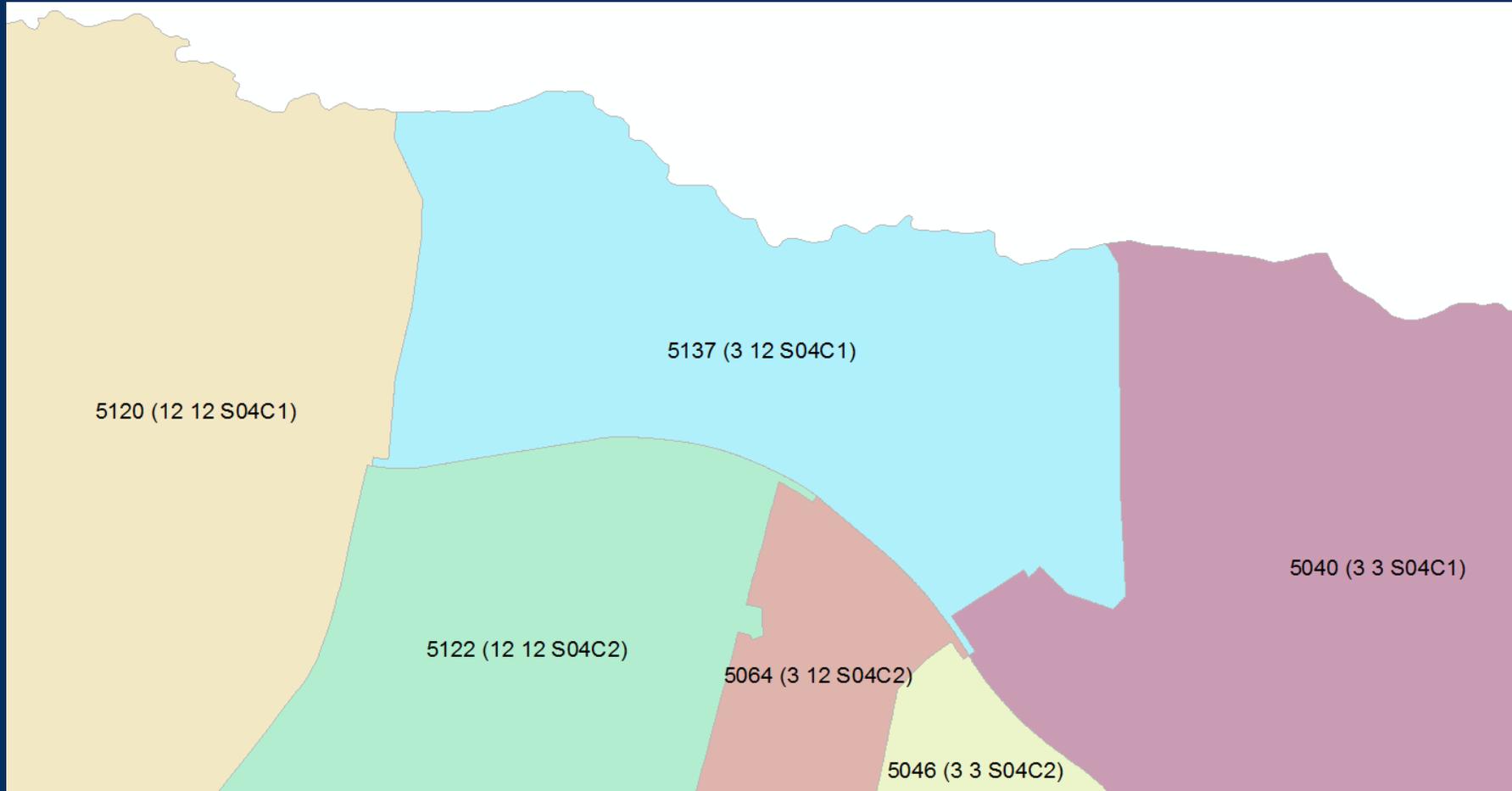
Verifying the state of your GIS - Validating your Centerline data to the Master Street Address Guide (MSAG) and your Address Point data to the Automatic Location Identification (ALI).

- ▶ First step in determining where a landline call is routed
- ▶ 98% or better match rate is REQUIRED for NG-911

Border reconciliation is of paramount importance to the success of NG-911's ability to route a call to the proper PSAP.

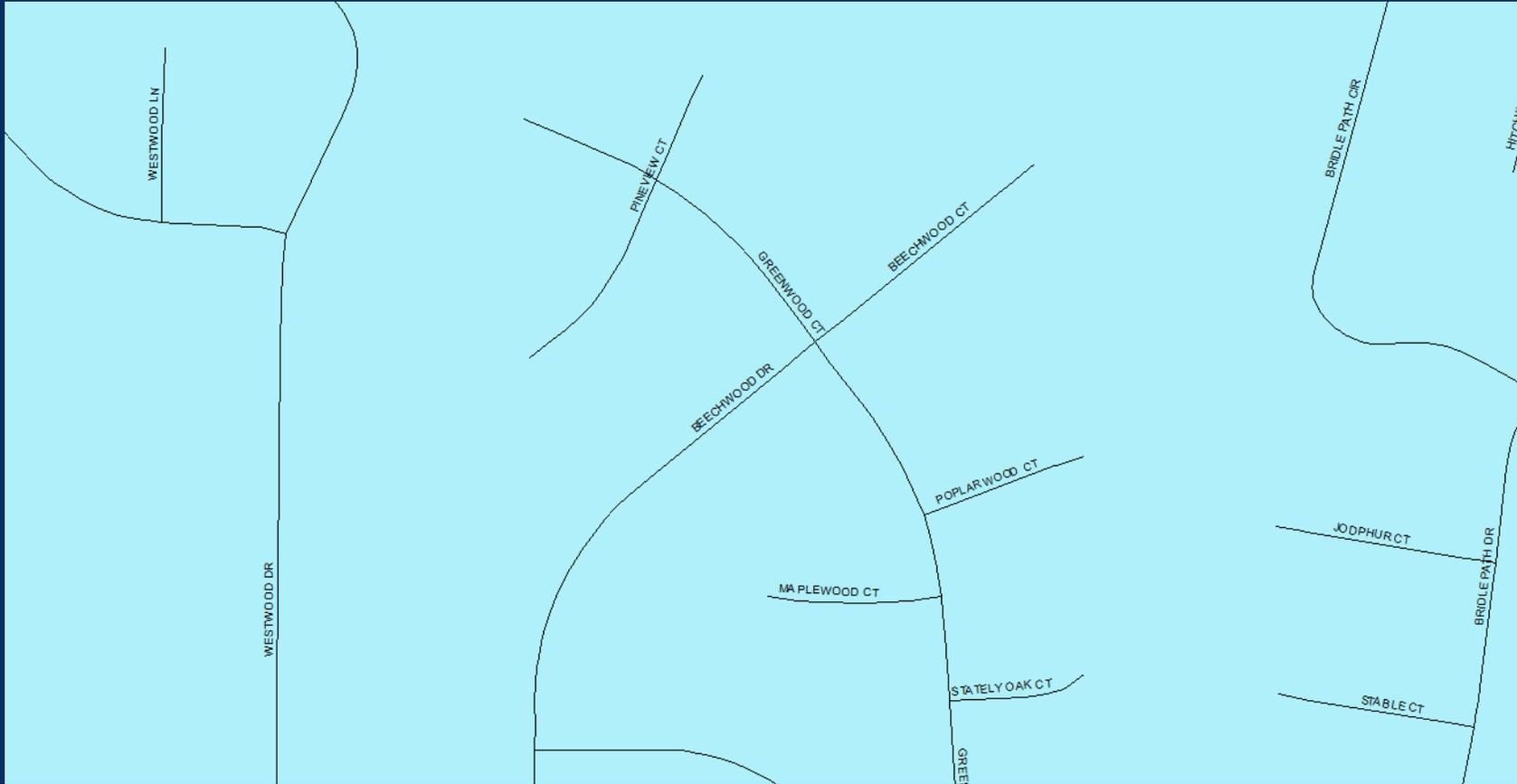
- ▶ There are several stumbling blocks to making the border layer(s) reflect what should ultimately represent a PSAP boundary.
 - ▶ PSAP directors need to be the first-line decision-makers in the process - using information provided by GIS personnel.
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Polygons



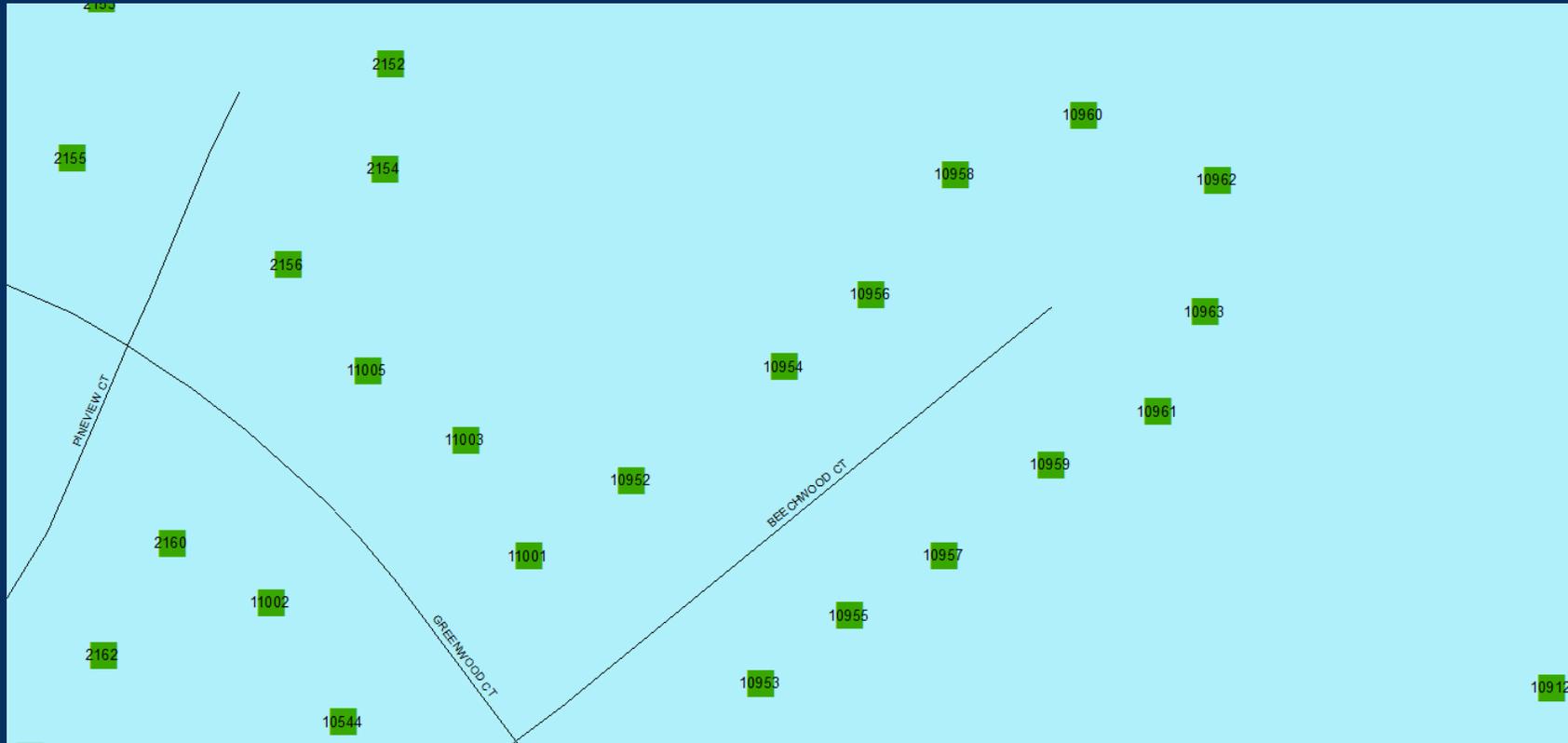
County	ESN	Fire_Name	EMS_Name	Fire	EMS	Sheriff	ACO	Battalion	Sheriff_District
Charles County	5137	Waldorf	Westlake	3	12	S04C1	524	BCN	District 4
Charles County	5120	Westlake	Westlake	12	12	S04C1	522	BCN	District 4
Charles County	5118	Westlake	Westlake	12	12	S02B1	526	BCN	District 2
Charles County	5040	Waldorf	Waldorf	3	3	S04C1	524	BCN	District 4
Charles County	5028	Hughesville	Dentsville	2	15	S01A3	521	BCN	District 1
Charles County	5065	Benedict	Benedict	5	5	S03D4	524	BCN	District 3

Lines



centerlines																	
	STREET	LCITY	RCITY	IncMuni_L	IncMuni_R	l_zip	r_zip	NbrhdCom_L	NbrhdCom_R	Left_From	Left_To	Right_From	Right_To	Parity_L	Parity_R	LESN	RESN
	OAKS RD	CHARLOTTE HA	CHARLOTTE HA	UNINCORPORATED	UNINCORPORATED	20622	20622			14402	14440	14401	14439	E	O	5024	5024
	OAKVIEW CT	NEWBURG	NEWBURG	UNINCORPORATED	UNINCORPORATED	20664	20664	CLIFFTON ON THE	CLIFFTON ON THE P	12430	12440	12431	12439	E	O	5142	5142
	OAKWOOD CIR	INDIAN HEAD	INDIAN HEAD	UNINCORPORATED	UNINCORPORATED	20640	20640	LAUREL ACRES	LAUREL ACRES	6650	6680	6651	6679	E	O	5108	5108
	MAHOGANY CT	WALDORF	WALDORF	UNINCORPORATED	UNINCORPORATED	20601	20601	FOX RUN	FOX RUN	10600	10610	10601	10611	E	O	5137	5137
	OAKWOOD CT	BRYANS ROAD	BRYANS ROAD	UNINCORPORATED	UNINCORPORATED	20616	20616	STRAWBERRY HIL	STRAWBERRY HILL	2410	2414	2407	2413	E	O	5108	5108
	OAKWOOD CT	BRYANS ROAD	BRYANS ROAD	UNINCORPORATED	UNINCORPORATED	20616	20616	STRAWBERRY HIL	STRAWBERRY HILL	2400	2404	2401	2405	E	O	5108	5108

Points



address_points

ADDRESS	Addl_Info	NEWCITY	ZIP	Country	State	Inc_Muni	Us	Built	DW	Map	Grid	Parcel	Subdiv	Phase	Section	Block	Lot
6316 DEERWOOD CT		WALDORF	20603	US	MD	UNINCORPORATED	R	1988	TH	14	5	00249	6822		P2		00033
4907 SAVOY PL UNIT B	UNIT B	WALDORF	20602	US	MD	UNINCORPORATED	R	1976	TH	15	21	00409	6812				00020
4345 EAGLE CT		WALDORF	20603	US	MD	UNINCORPORATED	R	1986	TH	8	19	00694	6824			E1	00013
11304 GOLDEN EAGLE PL UNIT	UNIT E	WALDORF	20603	US	MD	UNINCORPORATED	R	1992	TH	8	20	00761	6542		2	B	00061
28 SHELTON CT		INDIAN HEAD	20640	US	MD	INDIAN HEAD	R	1997	TH	11	22	00506	7785				00028
825 INDIAN HEAD AVE		INDIAN HEAD	20640	US	MD	INDIAN HEAD	R	1986	TH	11	21	00435	7528			P	00050
6301 WHISTLERS PL		WALDORF	20603	US	MD	UNINCORPORATED	R	1988	TH	14	5	00249	6822			3	00071

NENA Standard

County	ESN	Fire_Name	EMS_Name	Fire	EMS	Sheriff	ACO	Battalion	Sheriff_District
Charles County	5137	Waldorf	Westlake	3	12	S04C1	524	BCN	District 4
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centerlines

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MSAG to GIS Reconciliation

207

(585) 922-3428 07:35:01 03082011

Doe, John & Jane

150 RESD

Chili Ave

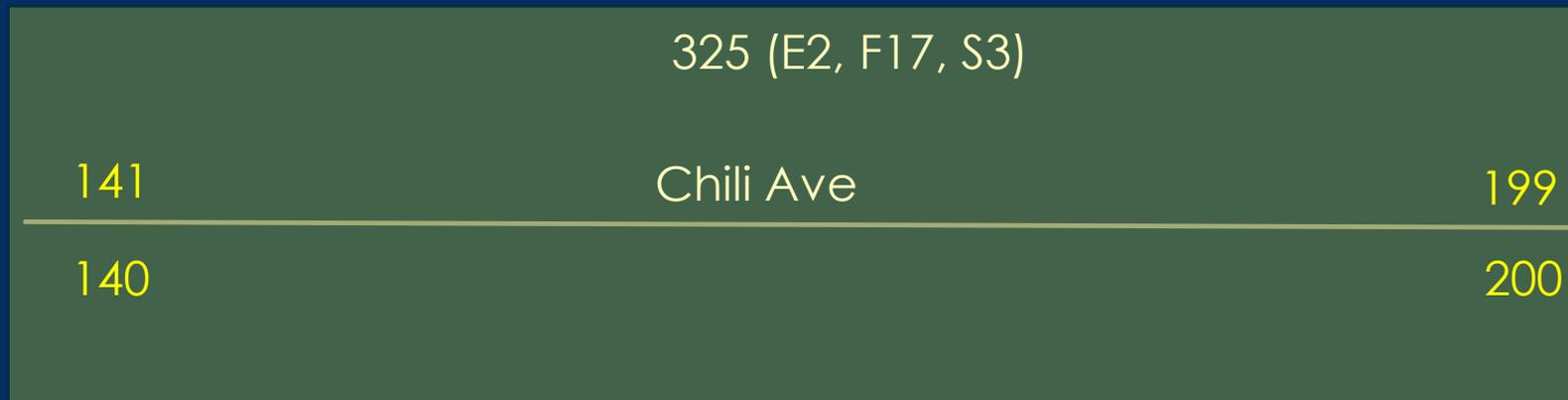
Rochester NY

Bldg Unit Flr

ESN=325 MTN:585-922-3428

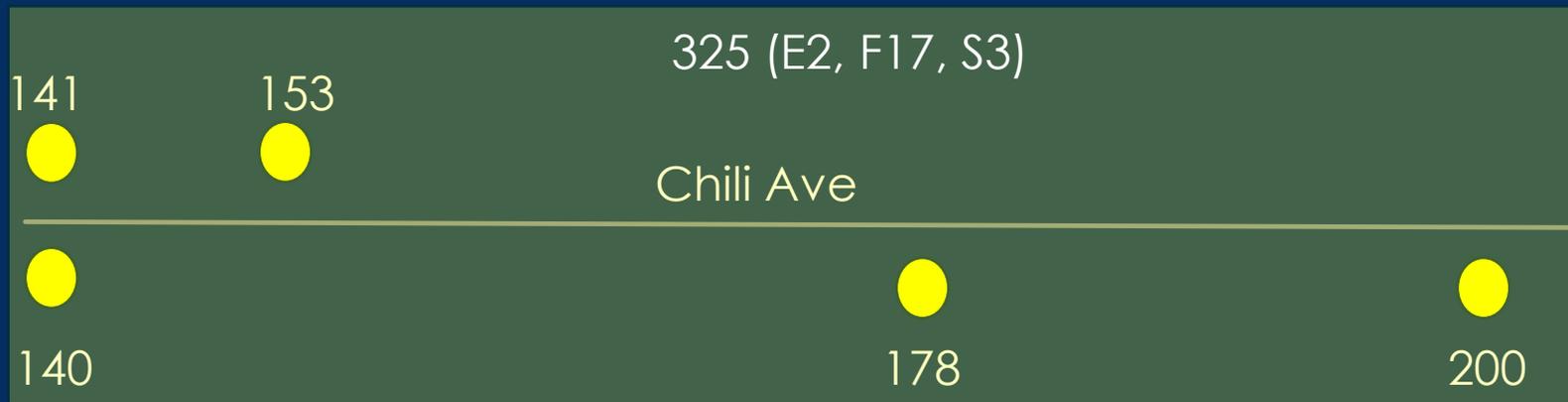
MSAG to Centerlines

STREET	Low Range	High Range	City	State	County	ESN
China St	1	20	Rochester	NY	Monroe	210
Chili Ave	140	200	Rochester	NY	Monroe	325
Chowder Pl	75	95	Brighton	NY	Monroe	281

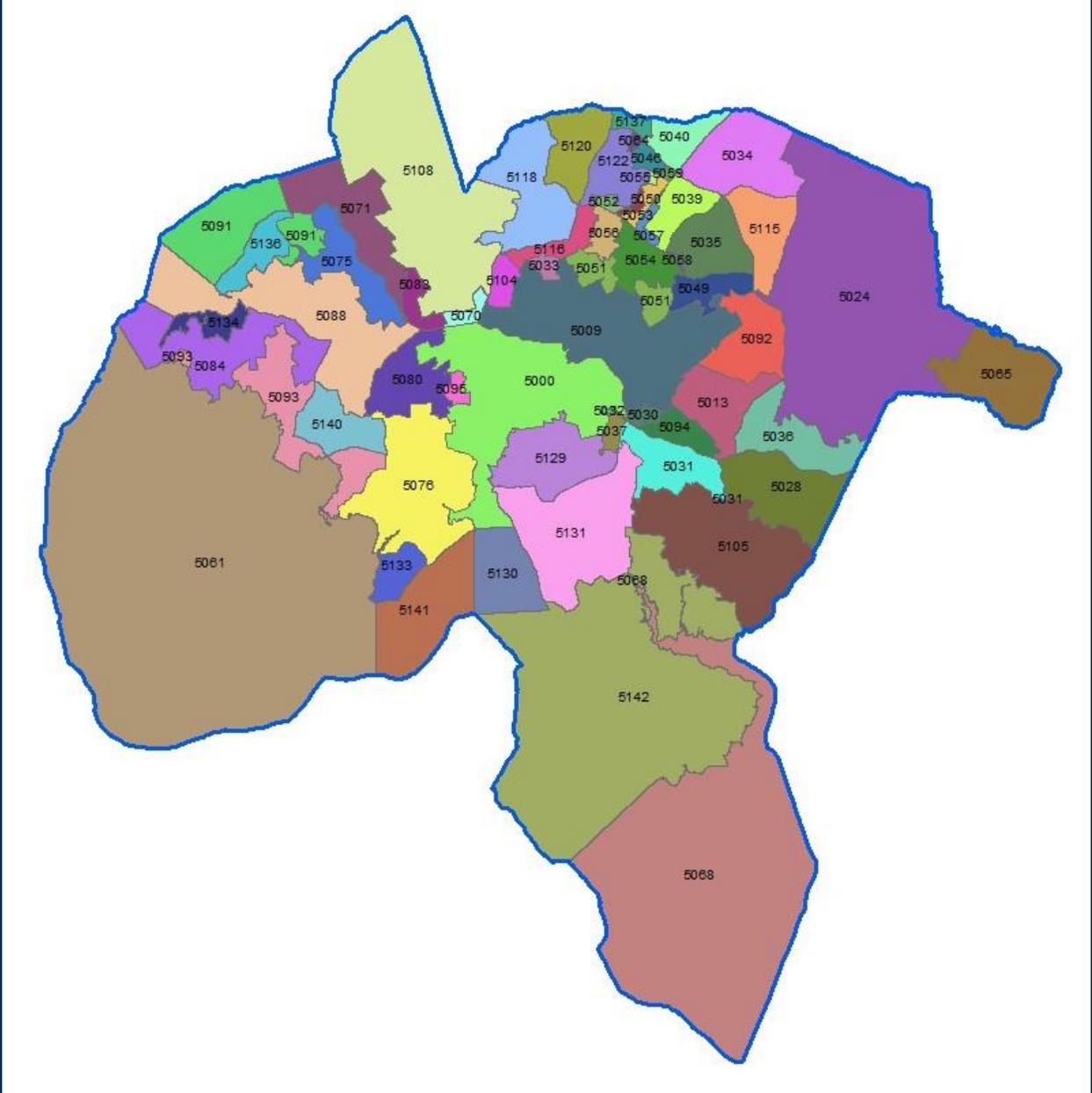


All to Address Points

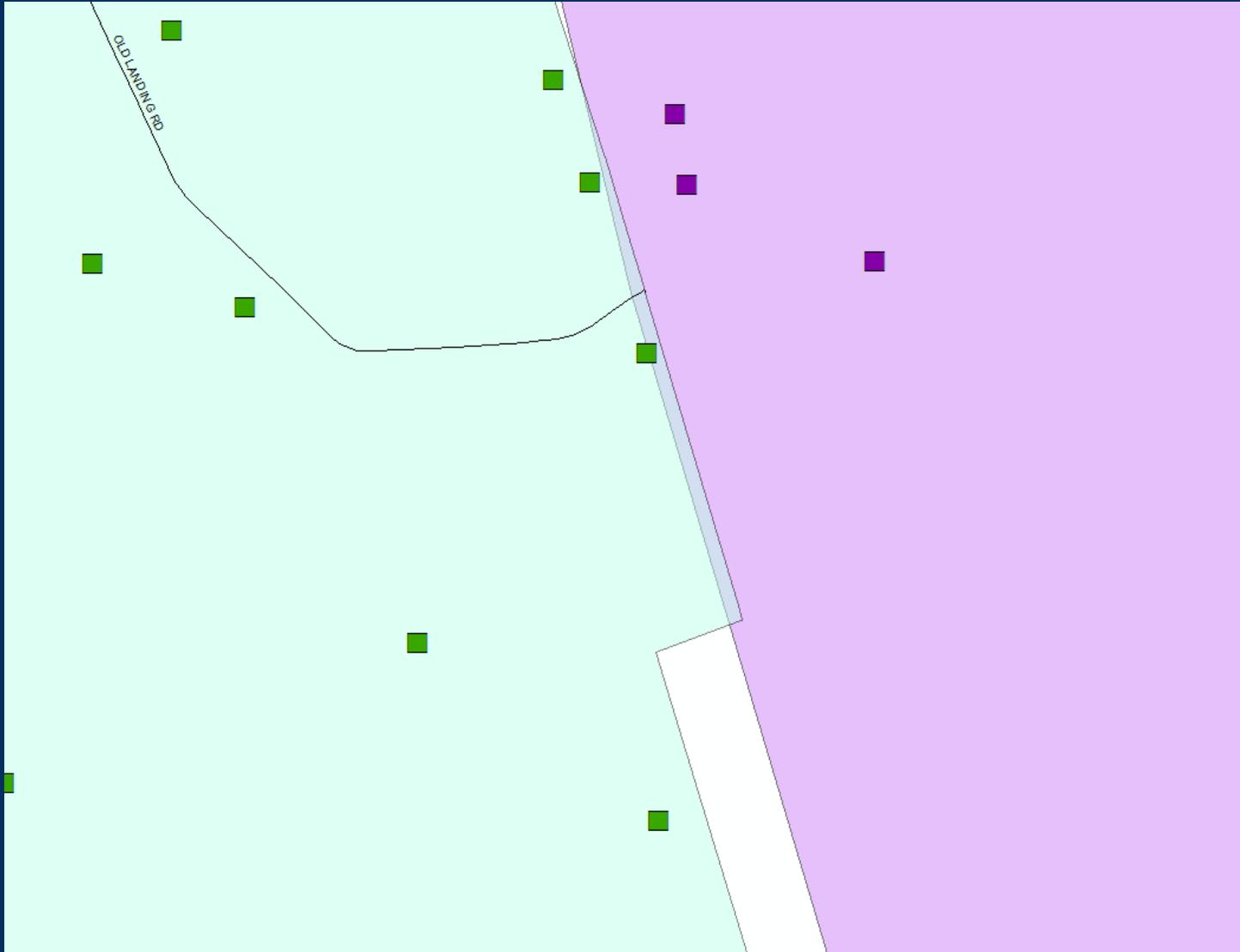
TN	ADDRESS	CUSTOMER	City	State	County	ESN
585-922-3428	140 CHILI AVE	DOE, JOHN & JANE	Rochester	NY	Monroe	325
585-922-7380	141 CHILI AVE	SINGH, ANNETTE	Rochester	NY	Monroe	325
585-922-4080	153 CHILI AVE	JONES, ANNA	Rochester	NY	Monroe	325
585-922-5510	178 CHILI AVE	FLEET, JAMES & HEATHER	Rochester	NY	Monroe	325
585-922-3807	200 CHILI AVE	ARMOR, SYLVESTER	Rochester	NY	Monroe	325



There's a New Paradigm



Why does it matter?



County line runs through a street



County line divides property

Who should get this call?

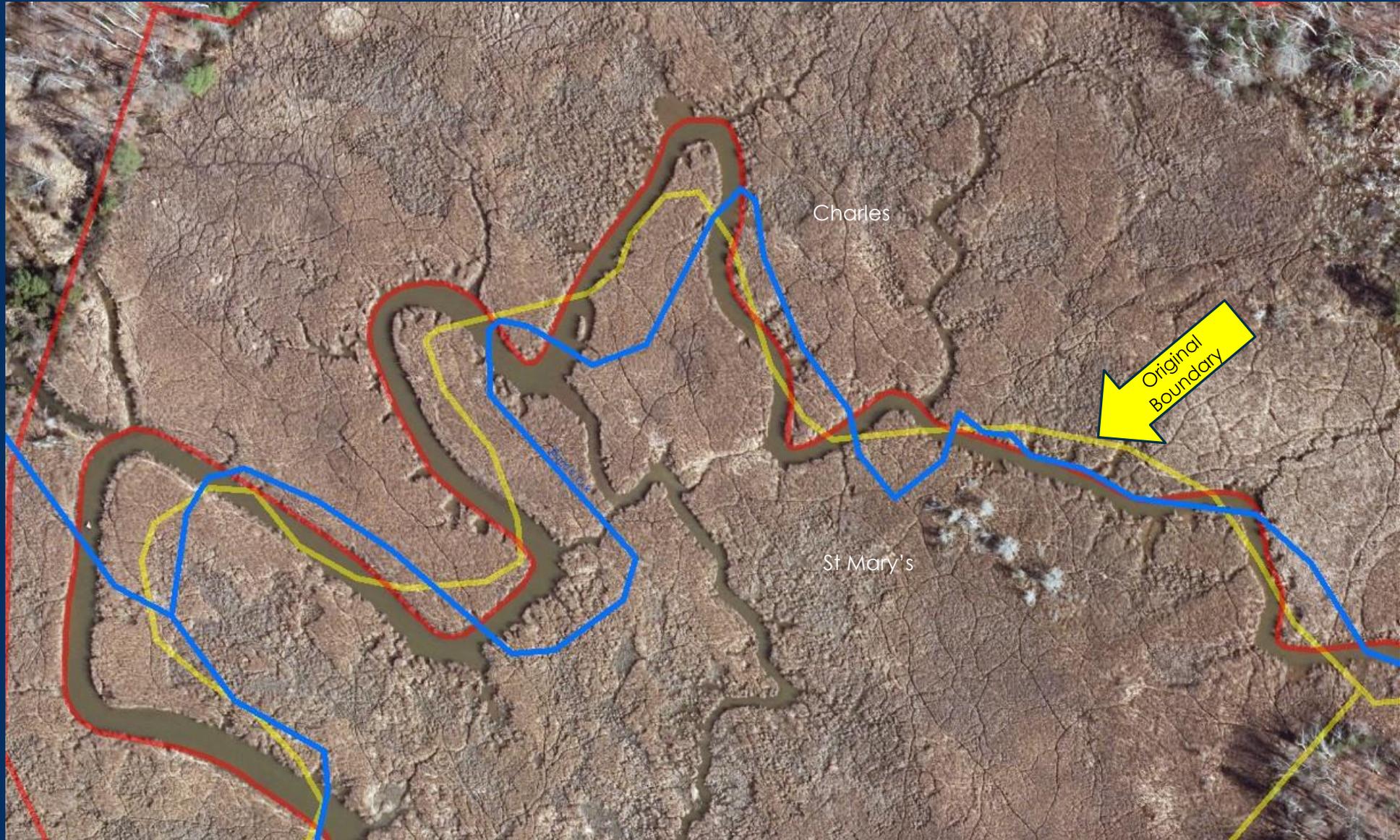
- ▶ County with driveway access
Charles
- ▶ County with largest parcel
St Mary's
- ▶ County which addressed the home
St Mary's
- ▶ County which receives taxes for home
Charles
- ▶ County with the closest responders
EMS – St Mary's
Fire - Charles



Parcel Reconciliation



Border is based on a stream



Border runs through a waterway

- ▶ Inter-State / Inter-County

- ▶ Legal boundaries
- ▶ County line in the middle of a body of water
- ▶ Legal State line is the low-tide line of the Virginia shore



Unique situations



Unresolved

NCR Navy Installations

TODAY

Hard-wired landlines – go to the Navy Yard 911 Center

Cellular calls – go to the “owning” County

NG-911

No differentiation between hard-wired and cell calls.

All calls will go to the “owning” county who will then transfer landline calls to the Navy Yard.

GIS Challenges

All layers must edge match to other counties/states/municipalities/jurisdictions

- ▶ One central location where all border edits are maintained in one spatial reference system
 - ▶ Centerline snap-to-points to facilitate address matching and routing
 - inter-jurisdictional
 - ▶ PSAP Border / ESZ (Emergency Service Zone) / Incorporated Towns / Fire / EMS / Law /Centerline
 - intra-jurisdictional AND inter-jurisdictional
- 

Tools and Resources

1Spatial – GIS diagnostic software purchased by the ENSB (Emergency Numbers System Board) and made available to each Maryland county by the DoIT office.

MapSAG – GIS diagnostic software purchased by individual jurisdictions as part of procurement of the ESINet package through AT&T/West.

Centerline Snap-to-Points – Developed and hosted by the Maryland Department of Transportation to facilitate continuous street centerlines for the State of Maryland as you cross jurisdictional boundaries.



Conclusion

The PSAP boundary must be based on a long-lasting and logical basis – not legal or Census boundaries.

- ▶ Requires multi-county/state/government agency coordination
 - ▶ Process begins with GIS evaluation
 - ▶ PSAP directors need to be the first-line decision-makers in the process
 - ▶ PSAP directors can elevate an issue if necessary
 - ▶ GIS professionals must have at their disposal tools and resources to make this possible
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