

Washtenaw County Environmental Council
NOVEMBER 18, 2025 MEETING AGENDA

Tuesday, November 18, 2025. 5:00PM - 6:30PM

Virtual Meeting

With Zoom Viewing. Link to watch:

<https://washtenawcounty.zoom.us/j/87283540017?pwd=gVEEnSyqxp4FAxM4EzR4qTbEzgf7mj.1>

- I. Call to Order
- II. Attendance
- III. Land Acknowledgement
- IV. Approval of the Agenda
- V. Approval of the Minutes of the October 14, 2025 Meeting
- VI. Public Comment/Citizen Participation: (up to 4 minutes per speaker)
 - A. Council Responses to Citizen Participation
 - B. Acknowledgement of written Citizen Participation
- VII. Staff Reports
 - A. Acknowledgement of written Staff Reports and Communications
 - B. Beth Gibbons, Director, County Resiliency Office: *Washtenaw County Resiliency Office Report*
 - 1. Resiliency Office Report
 - 2. Resiliency Office Events since last meeting and any upcoming, including tabling or other events that the WCEC might want to also participate in.
 - 3. Other Updates
- VIII. Chair's Report
 - A. Finance/Budget Report
 - B. Proposal: 2026 Calendar
- IX. Presentation: Salem Township Landfill. *Dave Drinan, The Conservancy Initiative*
- X. Presentation: Washtenaw County Facilities Management Environmental Initiatives. *Jason Fee, Washtenaw County Facilities Management Director.*
- XI. Presentation: Gelman Sciences Dioxane Contamination Plume. *Roger Rayle, Coalition for Action on Remediation of Dioxane (CARD).*

XII. Committee and Member Reports

A. Planning Committee Report.

Liz Ratzloff, WCEC Councillor and Vice Chair: County Materials Management Plan

B. Advisory and Recommendations Committee Report.

Michelle Deatruck, WCEC Chair: Resiliency Office's "Preliminary Municipal Toolkit on Data Centers"

XIII. Old Business

A.

XIV. New Business

XV. Adjourn

Next Meetings

December 16, 2025

**Chair's Proposal:
2026 Washtenaw County Environmental Council Calendar**

The proposed Council meeting dates are third or fourth Tuesdays 5pm to 6:30pm

January 27, 2026

February 24, 2026

March 24, 2026

April 28, 2026

May 19, 2026

(Third Tuesday: Fourth Tuesday is the first evening of Eid and day after Memorial Day)

June 23, 2026

July 28, 2026

August 25, 2026

September 22, 2026

October 27, 2026

November 17, 2026

(Third Tuesday: Fourth Tuesday is Thanksgiving week)

December 15, 2026

(Third Tuesday: Fourth Tuesday is Dec. 22)

Washtenaw County Environmental Council

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OCTOBER 14, 2025 DRAFT MINUTES

- I. Call to Order
 - A. 5:08 PM
- II. Attendance
 - A. Michelle Deatrack, Anne Brown, Gay MacGregor, Mark Coryell, Alex Bryan, Benjamin VanGessel, Brian Geiringer, Andrea Pierce, Liz Ratzloff, Lauren Sargent, Annie Somerville, Yousef Rabhi
- III. Land Acknowledgement
- IV. Approval of the Agenda
 - A. Moved: Lauren Sargent
 - B. Second: Liz Ratzloff
 - C. Approved: Unanimous Acclamation
- V. Approval of the Minutes of the September 2, 2025 Meeting
 - A. Moved: Liz Ratzloff
 - B. Second: Gay MacGregor
 - C. Approved: Unanimous Acclamation
- VI. Public Comment/Citizen Participation: (up to 4 minutes per speaker)
 - A. Council Responses to Citizen Participation
 - 1. Mitchell Seymore - Ypsi Twp
 - a) Appreciation for his visit and suggestion to connect with policy and outreach committee.
 - 2. Kathy Morrison
 - a) This is important to pay attention to because a biodigester is being proposed near Pleasant Lake in our county.
 - B. Acknowledgement of written Citizen Participation

1. Kathy Morrison – two files included in the agenda packet

VII. Staff Reports

A. Acknowledgement of written Staff Reports and Communications

B. Beth Gibbons, Director, County Resiliency Office: *Washtenaw County Resiliency Office Report*

1. Resiliency Office Report
2. Resiliency Office Events since last meeting and any upcoming, including tabling or other events that the WCEC might want to also participate in.
3. Other Updates
4. Council Response
 - a) Chair request for REA workshop participant communities to be shared with Councilors.
 - b) Question about qualification of savings from an operational perspective for some of the facilities that could be reinvested.
 - c) Request for one pager to be made accessible to the public.
 - d) Discussion about RWP carbon offset requirement and other options for mitigation in the future.
 - e) Urging importance of involvement in decisions that move the RWP goals forward.
 - f) Question about Office conversations with UM about community benefits.
 - g) Question and discussion about impacts concerning community solar and direct pay tax credits.

C. Other Staff Reports

VIII. Chair's Report

A. Finance/Budget Report

B. Green Energy Tax Credits

IX. Presentation: Bio-Digesters in Freedom Township: No Suitable Location. *Chris Mikesell, Freedom Township Preservation and Pleasant Lake Property Owners Association*

Question BVG: Was there anything in the Township's master plan.

Answer: Vanguard was trying to go around the township; Washtenaw County is between the community and the bio-digester because of the MMP.

Question MD: What is the MMP Process?

Answer YR: It would be appropriate to invite the Public Works director to the WCEC. There is this issue and there is also the issue of the landfill.

Chris Mikesell shared an overview of the process, which can also be found on the Public Works webpage: [Materials Management Planning | Washtenaw County, MI - Official Website](#)

- X. Presentation: Simplifying Solar: Local Ordinances on Rooftop & Solar and Battery Storage. *Councilor Kris Olsson*
 - A. Presentation was not given
- XI. Committee Reports
 - A. Outreach Committee
 - 1. Alex Bryan & Mark Coryell
 - a) Debrief: A2 Green Fair Sept. 19 5-8pm
 - b) Debrief: Third Act SunDay Sept. 21 2-6pm
- XII. Old Business
 - A. Resolution: Data Centers in Washtenaw County
 - B. Green Energy Tax Credits Presentation: Follow up?
- XIII. New Business
 - A. No new business
- XIV. Communications and Reports
 - A. Councilmembers
- XV. Adjourn
 - A. 6:36
 - B. Moved: Lauren Sargent
 - C. Second Yousef Rabhi
 - D. Approved by: Unanimous acclamation

Next Meetings

November 18, 2025

December 16, 2025

ACCOUNT DETAIL HISTORY FOR 2025 00 TO 2025 13

ORG YR/PR	OBJECT JNL	PROJ EFF DATE	SRC	REF1	REF2	REF3	CHECK #	OB	AMOUNT	NET LEDGER BALANCE	NET BUDGET BALANCE
10101104	805400		Special Events - Envr. Council								
							REVISED BUDGET				5,000.00
25/04	2356	04/10/25	APM	288563		294269	457550		225.00	225.00	
	modify acc	BRIAN	GEIRINGER			MICHIGAN	STATE OF -				
25/04	2357	04/10/25	APM	288563		294268	457550		225.00	450.00	
	modify acc	GAY	MACGREGOR			MICHIGAN	STATE OF -				
25/04	2358	04/10/25	APM	288563		294267	457550		225.00	675.00	
	modify acc	LAUREN	SARGENT			MICHIGAN	STATE OF -				
25/08	1872	08/04/25	API	000001		310291			55.00	730.00	
	6673		MICAN*	O #694		Unknown					
25/08	1872	08/04/25	API	000001		310292			55.00	785.00	
	6673		MICAN*	O #695		Unknown					
	LEDGER BALANCES	---	DEBITS:			785.00	CREDITS:	.00	NET:	785.00	
	GRAND TOTAL	---	DEBITS:			785.00	CREDITS:	.00	NET:	785.00	

5 Records printed

** END OF REPORT - Generated by Andrew DeLeeuw **

Washtenaw County Environmental Council - November 18, 2025

Resiliency Office Report

Beth Gibbons, Washtenaw County Resiliency Office Director

1. Staffing/Support Status

- The Facilities Management Division and Resiliency Office submitted an application to Round 3 of the MI Healthy Climate Fellows (MHCF) program to secure a year-long fellow who will support the Office's expanding portfolio of initiatives. Our application was NOT successful. We will not be hosting a MI Climate Corps Fellow in 2026.
- The office has submitted a budget request for general fund support of a permanent Communication and Engagement Coordinator for the office. This budget request is NOT recommended for funding. Additionally, our office request funding for contractor support to build an engagement website and support community engagement events. Those budget requests were also NOT recommended for funding.

2. Projects Underway

- MICHAP Project: Washtenaw County is partnering with the Michigan Department of Health and Human Services and MSU to address local climate-related health challenges. The project will inform design strategies for the redevelopment of Ecorse Road in Ypsilanti Township. The Resiliency Office is coordinating with County staff and Township officials to facilitate community engagement and assess additional potential project sites. Public meetings are anticipated to take place in late 2025.
- Renewable Energy Zoning Technical Assistance: The Office continues to provide technical assistance to municipalities in the development of renewable energy zoning frameworks.
 - Through work with a Department of Energy sponsored consultant our office developed a project plan for 3 solar installations on County-owned property. Feasibility reports are now completed for those sites.
- Data Center Resources & Municipal Toolkit: On September 15, 2025 the Board of Commissioners passed a resolution directing staff develop usable resources for communities to prepare for and respond to data center development. The Resiliency Office is leading this effort and will work with the Environmental Council and regional experts to design a usable toolkit for townships, villages and cities within Washtenaw County. To support the Board of Commissioners and inform the public at-large about data centers the Resiliency Office published a webpage that will be updated on a weekly basis: [Data Centers | Washtenaw County, MI - Official Website](#)
- WC Climate Resilience Network: The Resiliency Office has contracted Non-Profit Enterprise at Work (NEW) to facilitate the formation of the Washtenaw County Climate Resilience Network. This regional convening body will foster collaboration among municipalities, organizations, and institutions, enabling the exchange of resources and best practices.
- Social Media Accounts: The Resiliency Office launched our Facebook and Instagram

3. Grants & Funding Update

- **EGLE's Challenge #2: Unlocking Elective Pay** - The Resiliency Office partnered with Washtenaw 2030 District on a proposal to host a Direct Pay Ambassador in Washtenaw County. The grant was awarded and beginning in November a Direct Pay Ambassador will work with non-profit entities and faith-based organization to establish direct-pay eligible projects.
- **Climate Migration Planning Proposal** - The WRDSF Fund has invited the Resiliency Office to submit a \$50,000 proposal to initiate planning and narrative development around demographic shifts driven by climate change. This project will explore: Municipal and social service preparedness for supporting an aging population in a changing climate; institutional readiness for an influx of newcomers; identifying data, resources, and strategies needed to better plan for future demographic changes.
- **Hazard Mitigation Planning Grant – HMPG4757** – The Resiliency Office has modified and resubmitted its application to FEMA for funding of a county-wide hazard mitigation plan.

4. Outreach Updates - (New events added since last meeting)

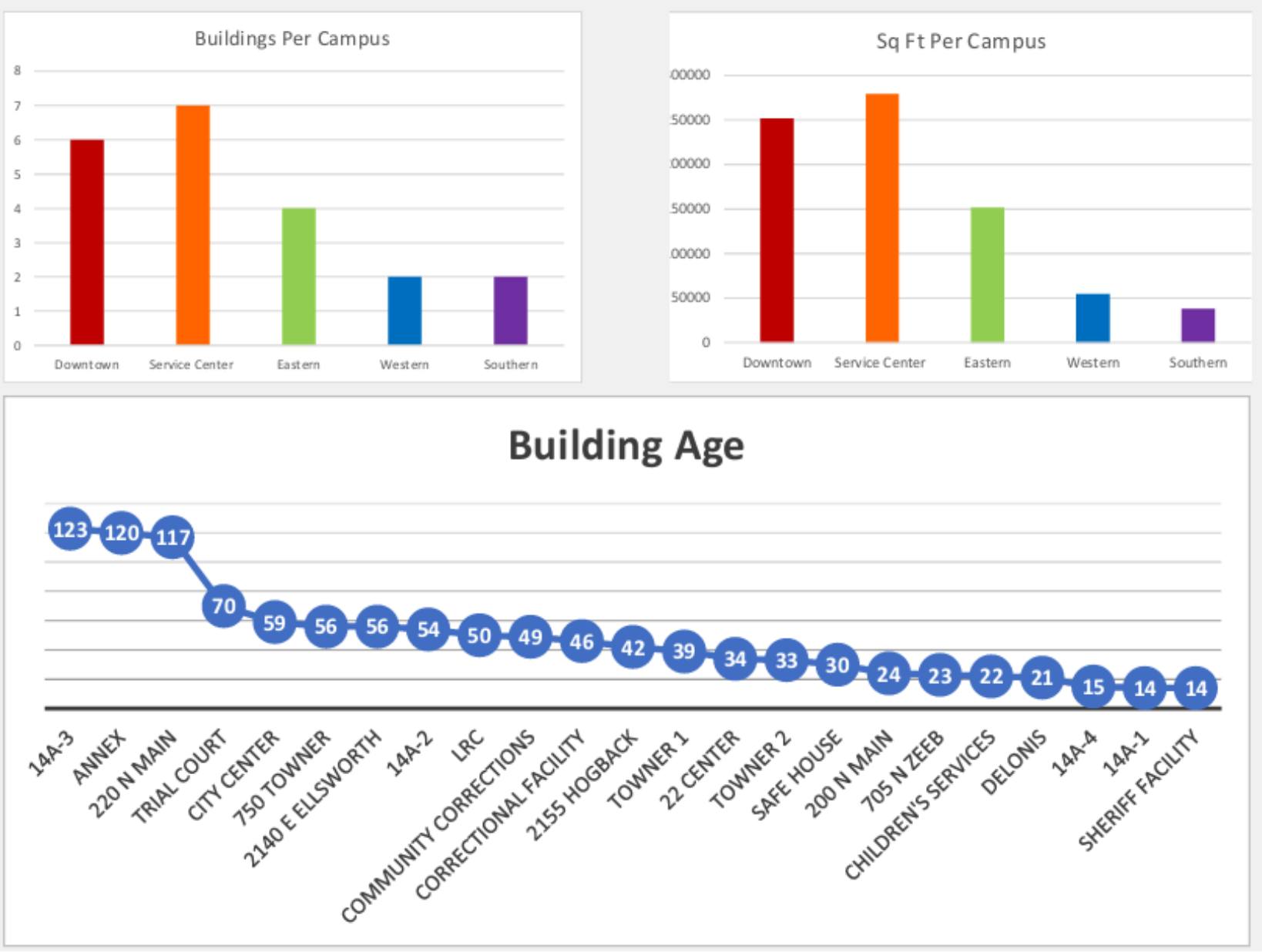
Clean Fuels Michigan Summit 2025 - Ann Arbor SPARK	Clean Fuels MI	11/12/2025	UM Ann Arbor
GLREA annual meeting	GLREA	11/15/2025	WCC, Ann Arbor
MiCCA 2nd Annual Climate & Health conference	Michigan State University		Lansing, MI
USGBC Michigan Building Transformation Forum	USGBC Michigan	11/19/2025	Ann Arbor, MI
Sustainable Innovation Meetup	SPARK (related)	12/11/2025	
2025 Michigan Climate Champion Awards	MI Climate Network	12/16/2025	Zoom
Corporate Growth Conference 2025	Waste Today	11/12/2025	Chicago, IL
Stewardship Network Annual Conference	Stewardship Network	1/23/2025	East Lansing, MI
Midwest Climate Conference	Midwest Climate Collaborative	3/3/2026	Cleveland
National Adaptation Forum	EcoAdapt	5/12/2026	Pittsburgh



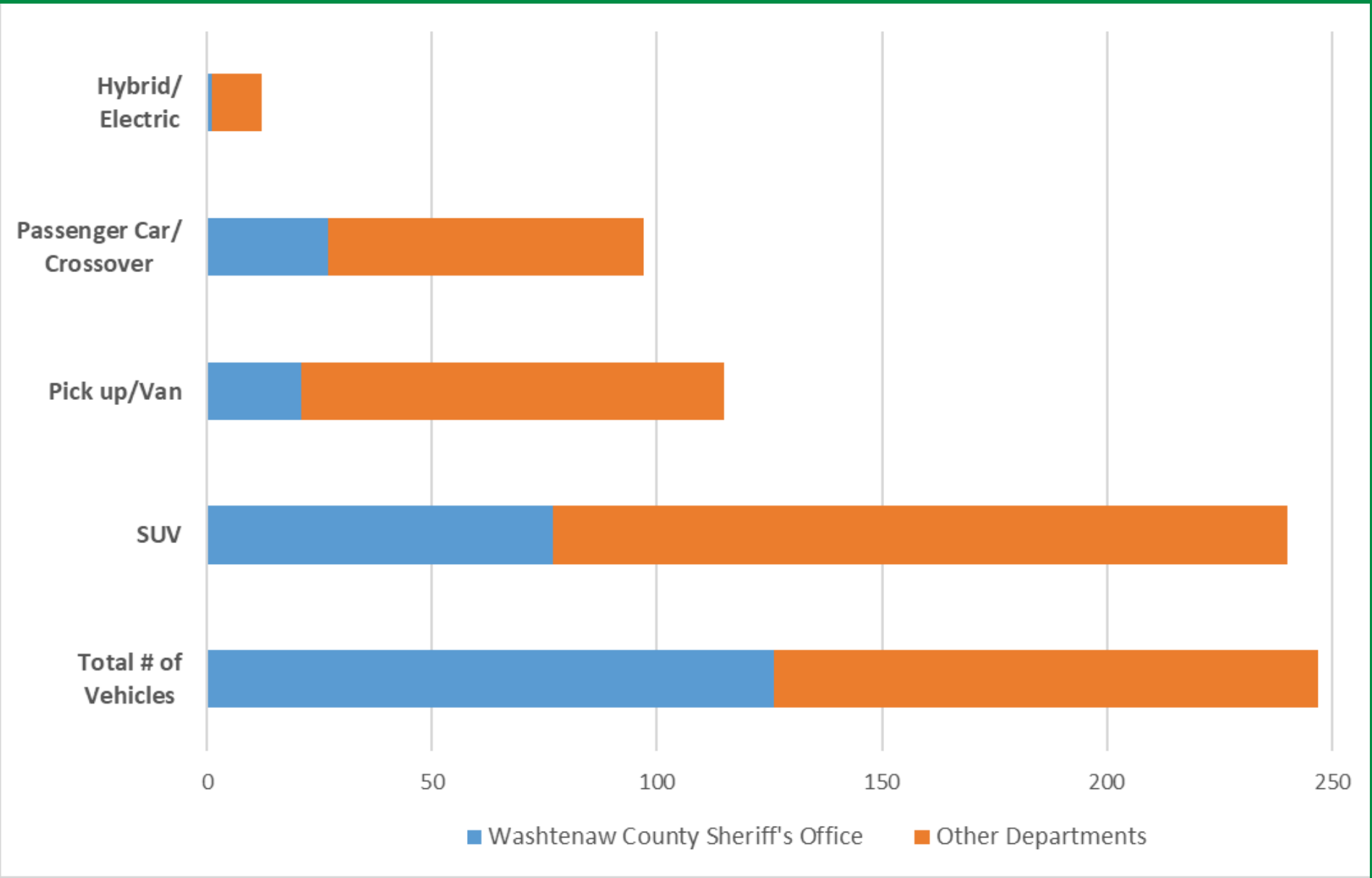
Washtenaw County Facilities Management

THE ROAD TO NET-ZERO OPERATIONS

Facilities Portfolio Overview



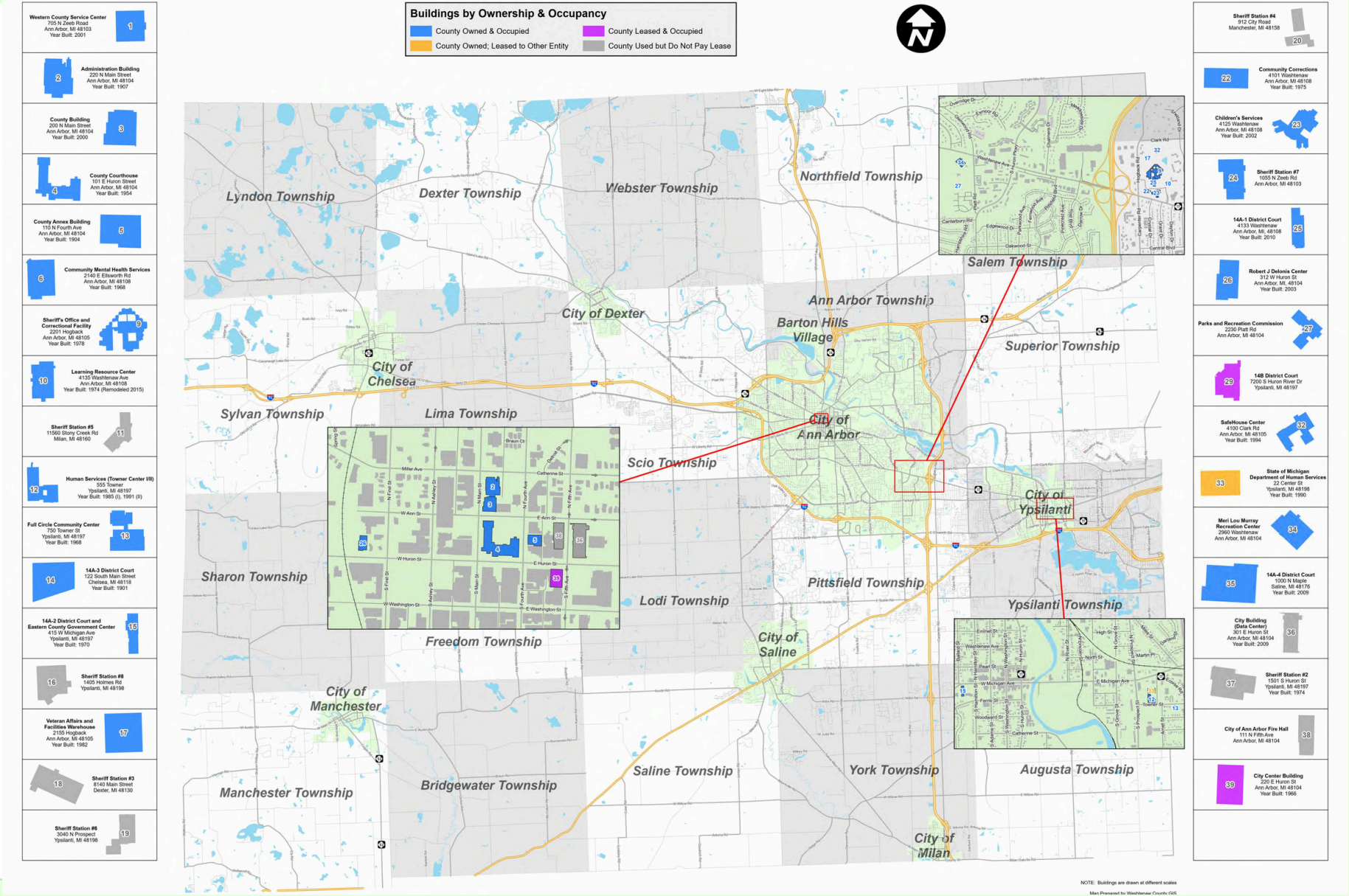
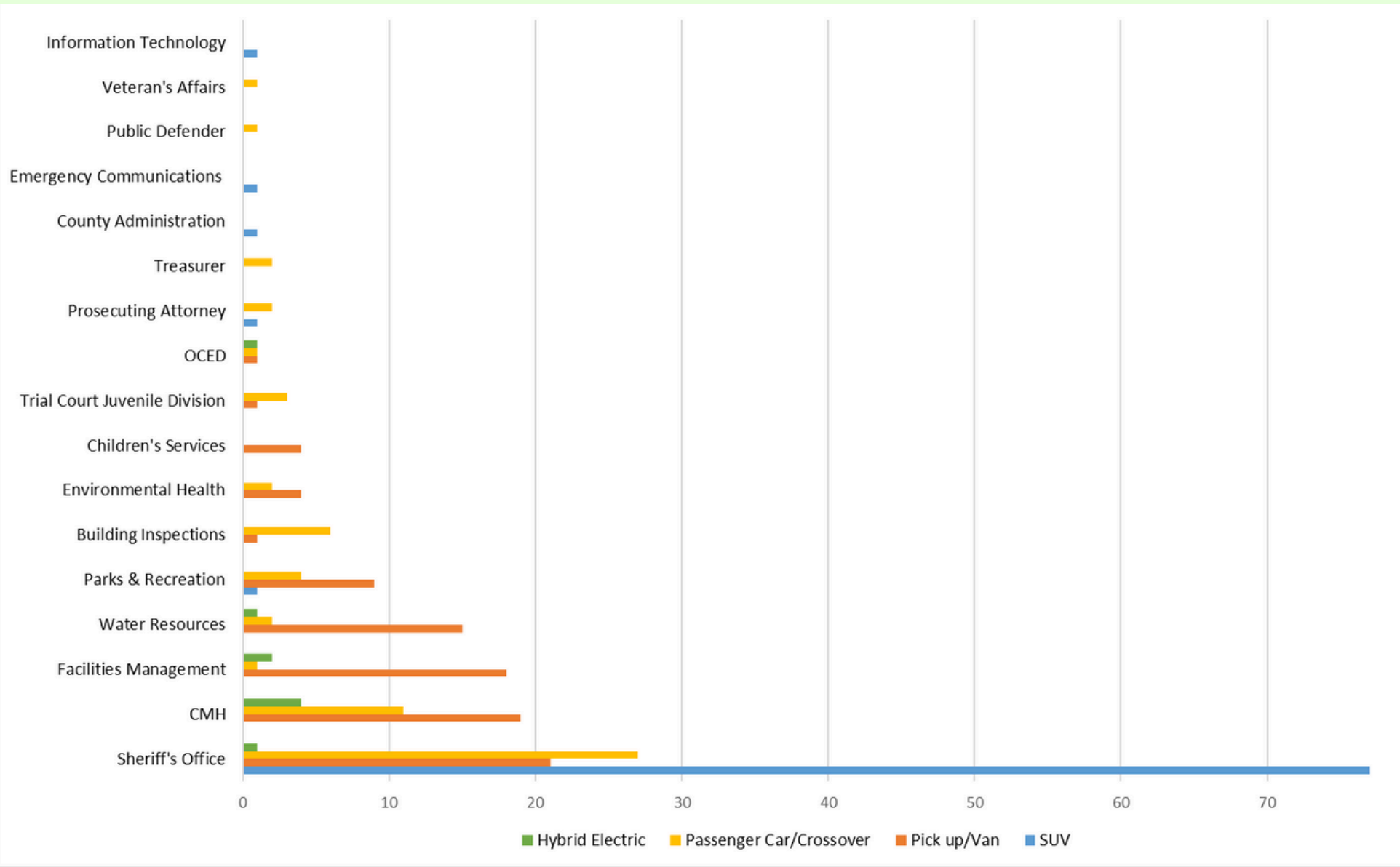
Fleet Portfolio Overview



FLEET AND FACILITIES

250+ Vehicles; 17 Departments

21 buildings; 5 campuses



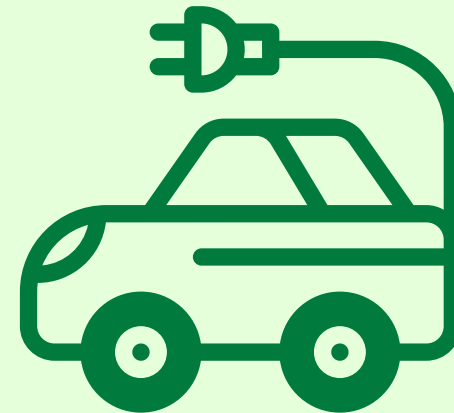
FACILITIES MANAGEMENT SUSTAINABILITY INITIATIVES



Energy Efficiency



Waste Reduction



EVs & EVSE



Electrification



Green Stormwater
Infrastructure



Renewable
Energy



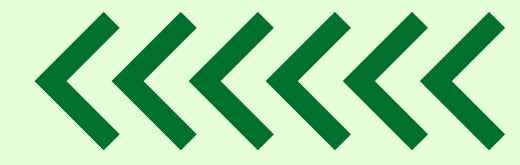
Staff Engagement
& Education



System
Monitoring



PROJECT UPDATES



Decarb Study

- Ameresco
- 17 facilities included
- Scopes 1 & 2 Emissions



PV Solar

- Homeland Solar
- Just under 1 MW
- 6 locations
- Ground, Carports & Roof
- 20 L2 EV Charging Ports



EVs & Charging

- Telematics
- Fleet-focused EVSE
 - 22 L2 & 1 DCFC
 - 6 locations



Saline Courthouse

- Doubled the size
- 2nd fully electrified County facility
- PV Solar
- 7 L2 EV Charging Ports

DECARB STUDY SNAPSHOT

- Electric, Gas, & Water
- 3 year averages
- \$/Sq. Ft and EUI by building

Baseline Utilities

Facility Name	Facility Size (ft2)	ELECTRIC		\$/kWh	kBtu/ft²	FUEL		\$/MMBtu	kBtu/ft²	WATER/SEWER			\$/Gal	Total	Total	Total
		kWh	Cost			MMBtu	Cost			Gal-Water	Gal-Sewer	Cost		Annual Cost	kBtu/ft2	\$/ft2
Western Service Center	42,225	464,609	\$ 68,360	\$ 0.147	37.6	2,607	\$ 11,292	\$ 4.33	61.8	-	-	\$ -	\$ -	\$ 79,651	99.3	\$ 1.89
Veteran's Affairs and Facilities Warehouse	18,635	67,861	\$ 10,938	\$ 0.161	12.4	829	\$ 2,640	\$ 3.19	44.5	542,222.0	22,440.0	\$ 22,440	\$ 0.04	\$ 13,578	56.9	\$ 0.73
County HS and State of MI Dept of Health & HS	109,318	615,749	\$ 93,437	\$ 0.152	19.2	4,534	\$ 19,797	\$ 4.37	41.5	133,892.0	133,892.0	\$ 3,631	\$ 0.03	\$ 113,234	60.7	\$ 1.04
Washtenaw County Vital Records	43,515	184,687	\$ 27,769	\$ 0.150	14.5	1,551	\$ 7,745	\$ 4.99	35.6	133,892.0	133,892.0	\$ 3,914	\$ 0.03	\$ 35,515	50.1	\$ 0.82
Safe House Center	30,308	201,940	\$ 30,353	\$ 0.150	22.7	1,464	\$ 11,846	\$ 8.09	48.3	910.0	-	\$ 10,403	\$ 11.43	\$ 42,199	71.1	\$ 1.39
Eastern County Govt Center	28,486	157,975	\$ 24,149	\$ 0.153	18.9	1,519	\$ 6,836	\$ 4.50	53.3	82,280.0	82,280.0	\$ 2,955	\$ 0.04	\$ 30,984	72.3	\$ 1.09
Downtown Courthouse	118,130	767,408	\$ 113,877	\$ 0.148	22.2	6,713	\$ 26,688	\$ 3.98	56.8	725,560.0	725,560.0	\$ 17,898	\$ 0.02	\$ 140,564	79.0	\$ 1.19
Delonis	22,751	318,586	\$ 47,205	\$ 0.148	47.8	2,086	\$ 16,605	\$ 7.96	91.7	-	-	\$ -	\$ -	\$ 63,810	139.5	\$ 2.80
County Annex	32,852	154,166	\$ 26,574	\$ 0.172	16.0	871	\$ 5,352	\$ 6.14	26.5	302,940.0	302,940.0	\$ 6,353	\$ 0.02	\$ 31,925	42.5	\$ 0.97
Community Mental Health	30,284	213,492	\$ 31,885	\$ 0.149	24.1	914	\$ 4,355	\$ 4.77	30.2	219,912.0	219,912.0	\$ 3,521	\$ 0.02	\$ 36,240	54.2	\$ 1.20
Children's Services	35,313	434,490	\$ 61,882	\$ 0.142	42.0	2,794	\$ 18,599	\$ 6.66	79.1	418,880.0	418,880.0	\$ 6,531	\$ 0.02	\$ 80,481	121.1	\$ 2.28
Administration	26,303	185,875	\$ 27,937	\$ 0.150	24.1	1,088	\$ 6,126	\$ 5.63	41.4	92,004.0	92,004.0	\$ 3,820	\$ 0.04	\$ 34,064	65.5	\$ 1.30
Full Circle Community Center	14,953	82,295	\$ 13,032	\$ 0.158	18.8	299	\$ 3,078	\$ 10.28	20.0	58,344.0	58,344.0	\$ 1,352	\$ 0.02	\$ 16,111	38.8	\$ 1.08
Sheriff Correctional Facility and 14A-1 District Courthouse C	164,012	2,995,236	\$ 271,803	\$ 0.105	54.0	11,998	\$ 49,683	\$ 4.14	73.2	8,872,028.0	8,872,028.0	\$ 133,654	\$ 0.02	\$ 321,487	127.2	\$ 1.96
Community Corrections	16,863	76,427	\$ 12,229	\$ 0.160	15.5	273	\$ 862	\$ 3.16	16.2	316,404.0	316,404.0	\$ 4,855	\$ 0.02	\$ 13,091	31.7	\$ 0.78
folio Totals	733,948	6,520,796	\$861,430	\$0.132	30.3	39,540	\$191,504	\$ 4.84	53.9	11,899,268.0	11,378,576.0	221,326.4	\$0.02	\$1,052,935	84.2	\$ 1.43

- Electrical Inventory
- Mechanical Inventory
- Plug Load Inventory

Inventory Everything

BUILDING:	Children's Services / Youth Center	2417							Vish List	
SF:	35,313								Temper air coming from AHU in	
AGE:	2002 <th colspan="7"></th> <td colspan="2">Replace Boilers (have prints at</td>								Replace Boilers (have prints at	
FLOOR:	1 <th colspan="7"></th> <td colspan="2">Move away from direct general</td>								Move away from direct general	
CATEGORY:	MAKE/MODEL/SERIAL	#	Type	LOCATION	SERVES	YEARAGE	Voltage	Serial Capacity		
Boilers	Rybak Model H6-0962, Serial 007894300 and 007894329	2	Non-Condensing Steam Boilers	Boiler Room	Whole Building	2004	21	120 V/1PH	961MEH/1789 MEH Output	
Chiller	Trane CG4M095F2M02A302A1A1A1A0A1E14A4A3A J00B1A3A1A0D0C, Serial UN653378	1	Air-Cooled Chiller, Scroll	Roof	Whole Building	2017	8	460V/3 PH	90T	
	B&G Model 1910, nameplate obscured.	2	HHV Pump (CV)	Boiler Room	Whole Building			208-230 V/2 PH, 10 HP	56 GPM, 42 FL HD (from schedule)	
	B&G PL-36	2	Boiler Circulation Pumps (CV)	Boiler Room	Boiler 1&2			120 V/1PH, 1/4 HP	52 GPM (est.)	
Pumps	B&G Model E1910-2A0-5.6785S	2	CV Pumps (CV)	Boiler Room	Whole Building				170 GPM, 30 FT. HD	
	Unknown Manufacturer - Model STB-2	1	DHV/ Circulating Pump	Boiler Room	Whole Building			208 V/2 PH	3/4 HP	
RTUs	York CP256CV5AFA2075460 (Both), Serial A10X0200440, and A10X0100440	2	CV RTUs	Roof	Entire Bldg (64) VAVs	2002	21	460V/3 PH		



MDP-1: Main switchboard with 400A disconnect in gear.

Building	Appliance	Qty	Electric	NG	Avg Annual kWh/unit	Total Annual kWh
State of MI	Lg Printer/Copier	2	x		130	260
	Desktop Printer/Copier	2	x		25	50
	Lg Server Rack (on floor)	3	x		25000	75000
	Soda/Snack Vending Machine	2	x		2000	4000
	Residential Fridge/Freezer	3	x		800	2400
	Microwave	4	x		192	768
	Toaster/Toaster Oven	2	x		60	120
	Bunn coffee maker/warmer	1	x		350	350
	Commercial Dishwasher	1	x		10000	10000

- ECMs included:
 - EE Measures
 - Fuel Switching & Electrification,
 - Renewable Energy
 - Emerging Technologies

Develop Report

Include in Project? (space/delete-no, any mark-yes)	Energy Conservation & Facility Improvement Measures Financial Analysis	Waters Save	VA & Facilities	Tower 1&2	200 N Main	Safe House	Eltm. Co. Govt Contr	Downtown CH	Dolomis	County Annex	Community y North	Children's Services	Admin	Full Circle Community	Sheriff + 1&4-1	Community y	Effective Useful Life (EUL)	Phase 1	Phase 2	Phase 3	Phase 4	Measure Investment			Annual Savings				Simple		Use Avoided Capital?				
																						Min (w/rebate)	Max (w/rebate)	Incentives	Utility	O&M	Social Cost of Carbon	Total	Payback (years)						
N	1 RCx	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5					\$ 332,222	\$ 487,659	\$ -	\$ 31,568	\$ 9,471	\$ 54,643	\$ 95,682	3.5-5.1			235.4			
N	2 CO Monitoring/Control	✗	✓	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5					\$ 4,379	\$ 5,412	\$ -	\$ -	\$ -	\$ -	\$ -	n/a			0.0			
N	3 Integrate Standalone HVAC	✗	✓	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15					\$ 23,724	\$ 27,637	\$ -	\$ 564	\$ 423	\$ 1,405	\$ 2,393	9.9-11.5			7.6			
N	4 Replace DHW Heaters	✗	✓	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15					\$ 3,758	\$ 4,378	\$ -	\$ -	\$ -	\$ -	\$ -	n/a			0.0			
N	5 Replace/Relocate Electric DHW	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15					\$ 21,045	\$ 25,535	\$ -	\$ 19	\$ 117	\$ 42	\$ 177	118.7-144.1			0.2			
N	6 Sewer Deduct Meter	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	30					\$ 24,676	\$ 30,482	\$ -	\$ -	\$ -	\$ -	\$ -	n/a			0.0			
N	7 Upgrade Chiller	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20					\$ 688,751	\$ 802,358	\$ -	\$ 5,796	\$ 1,739	\$ 9,157	\$ 16,692	41.3-48.1			49.5			
N	8 Integrate Perimeter Reheat	✗	✓	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15					\$ 51,225	\$ 63,333	\$ -	\$ 1,835	\$ 550	\$ 5,157	\$ 7,542	6.8-8.4			27.9			
N	9 Building Envelope	✗	VA	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	30					\$ 2,763,406	\$ 3,605,348	\$ -	\$ 3,460	\$ 1,038	\$ 6,234	\$ 10,731	257.5-336.0			33.7			
N	10 Electrification/EOL	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20					\$ 5,308,831	\$ 6,184,504	\$ -	\$ (124,700)	\$ -	\$ (75,879)	\$ (200,579)	n/a			-410.2			
N	11 Electrification	✗	✓	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20					\$ 1,574,646	\$ 1,852,105	\$ -	\$ (43,528)	\$ -	\$ (28,647)	\$ (72,175)	n/a			-354.8			
N	12 Solar PV	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	30					\$ 713,363	\$ 817,504	\$ 328,043	\$ 48,591	\$ -	\$ 50,859	\$ 99,450	7.2-8.2			274.9			
N	13 Solar PV - Roof/Solar	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	30					\$ 6,951,912	\$ 7,874,723	\$ 2,216,090	\$ 231,988	\$ -	\$ 253,970	\$ 485,958	14.3-16.2			1,372.8			
N	14 Solar PV - Parking	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	30					\$ 4,663,047	\$ 5,467,021	\$ 3,376,689	\$ 259,977	\$ -	\$ 276,022	\$ 535,999	8.7-10.2			1,432.0			
N	15 Renewable Thermal Credit	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A					\$ -	\$ -	\$ -	\$ (125,319)	\$ -	\$ 189,110	\$ 63,791	0.0-0.0			1,022.2			
N	16 RNG	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A					\$ -	\$ -	\$ -	\$ (532,896)	\$ -	\$ 189,110	\$ (343,785)	n/a			1,022.2			
N	17 MI SREC	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A					\$ -	\$ -	\$ -	\$ (19,720)	\$ -	\$ 482,191	\$ 462,471	0.0-0.0			2,806.4			
	Phase 1 Total (Energy Efficiency+EOL Electrification)																	25.6					\$ 9,222,017	\$ 11,236,646	\$ -	\$ (81,458)	\$ 13,338	\$ 758	\$ (68,121)	-135.4-165.0			NRREF		
	Phase 2 Total (Remaining Electrification)																	21.2					\$ 1,574,646	\$ 1,852,105	\$ -	\$ (43,528)	\$ -	\$ (28,647)	\$ (43,528)	-36.2-42.6			4,011.2		
	Phase 3 Total (Solar)																	30.0					\$ 12,328,322	\$ 14,159,247	\$ 55,920,822	\$ 940,556	\$ -	\$ 580,852	\$ 540,556	22.8-26.2			4,011.2		
	Phase 4 Total (Purchasing Remaining)																	N/A					\$ -	\$ -	\$ -	\$ -	\$ (145,039)	\$ -	\$ 671,302	\$ (145,039)	0.0-0.0			6,617.6	
	Total																	26.9					\$ 23,124,985	\$ 27,247,998	\$ 55,920,822	\$ 270,531	\$ 13,338	\$ 1,224,265	\$ 1,508,133	15.3-18.1			6,617.6		

FACILITY SNAPSHOT: CHILDREN'S SERVICES



35,313
Square Feet

2002
Age

\$80,481
Annual Utility Spend

121.1
EUI (kBtu/Square Foot)

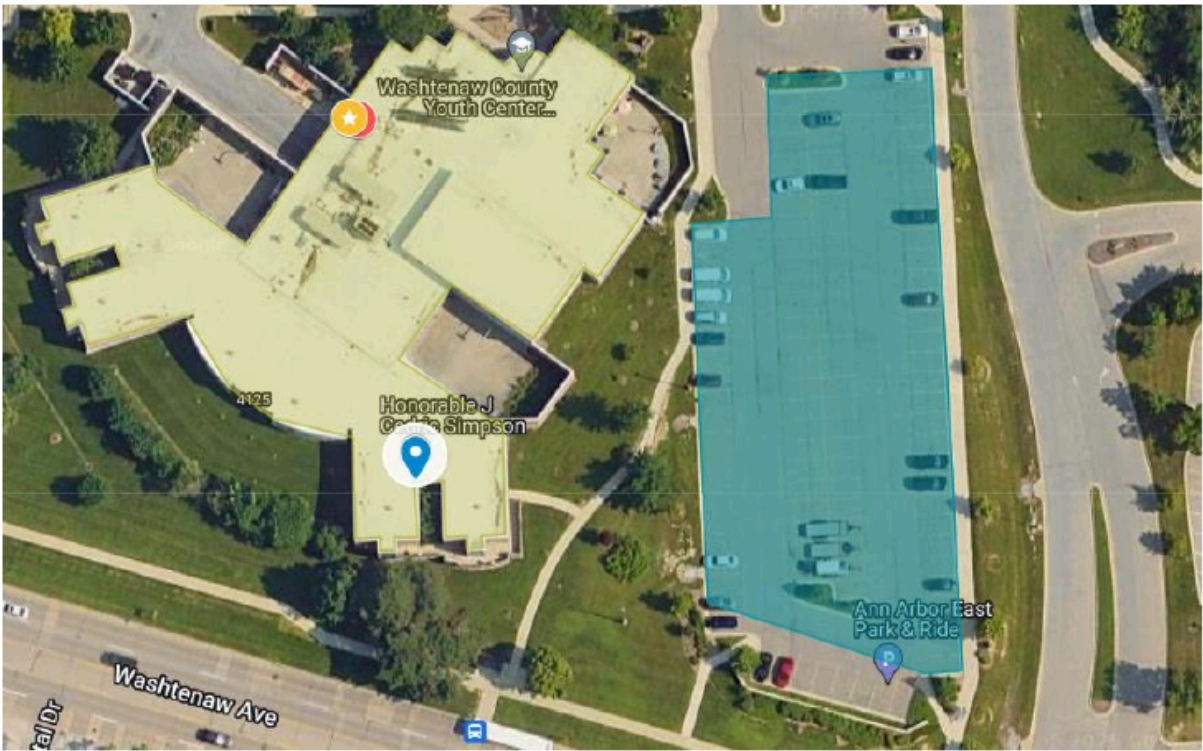
\$2.28
Cost/Square Foot

FULL DECARBONIZATION

UPFRONT COST: \$3.5- 4M

SIMPLE PAYBACK: 152.6 YR

CO2E OFFSET: 478.3 MT/YR

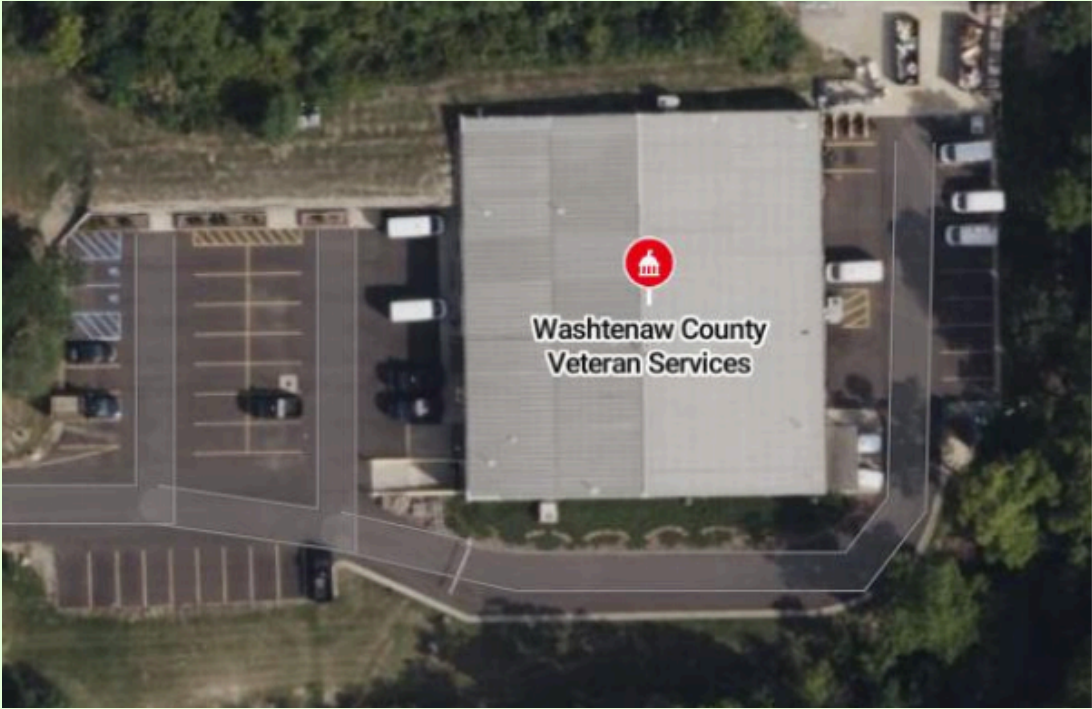


Children's Services		Elec Spend:	\$	61,882	\$/kWh:	\$	0.0870	\$/kW:	\$	38.43
ECM #	ECM Description	ECM kBTU /ft2	Residual Value	Incentives	Electricity Savings					
					\$	kW-monthly	kWh			
1	MI SREC	41.774	\$ -	\$ -	\$ (2,485.23)		432,215			
2	RCx	6.209	\$ -	\$ -	\$ 1,478.61		16,996			
3	Electrification/EOL	22.765	\$ -	\$ -	\$ (46,615.18)		-535,807			
4	Solar PV - Roof+Solar	28.137	\$ -	\$ 356,937	\$ 33,963.29	19	291,126			
5	Solar PV - Parking	22.226	\$ -	\$ 433,314	\$ 26,827.61	15	229,961			
		121.110	\$ -	\$ 790,251	\$ 13,169	34	434,490			

NG Spend:	\$ 18,599	\$/mmBtu:	\$ 1.45	\$/sq. foot:	\$ 2.28							
Annual Gas Savings		Total Util Savings	Annual O&M Savings	Total Savings	Simple Payback	% Electricity		% Gas Reduction		Carbon Offset	EUI	% Cost Reduction
\$	MMBTU					\$	kWh	\$	MMBTU			
\$ -		\$ (2,485.23)	\$ -	\$ (2,485)	0.0	-4.0%	99.5%	0.0%	0.0%	328.5	79.3	-3.1%
\$ 234	161	\$ 1,712.41	\$ 514	\$ 2,226	10.5	2.4%	3.9%	1.3%	5.8%	21.5	114.9	2.1%
\$ 3,817	2,633	\$ (42,797.91)	\$ -	\$ (42,798)	-20.4	-75.3%	-123.3%	20.5%	94.2%	-267.6	98.3	-53.2%
\$ -		\$ 33,963.29	\$ -	\$ 33,963	32.6	54.9%	67.0%	0.0%	0.0%	221.3	93.0	42.2%
\$ -		\$ 26,827.61	\$ -	\$ 26,828	26.2	43.4%	52.9%	0.0%	0.0%	174.8	98.9	33.3%
\$ 4,051	2,794	\$ 17,220	\$ 514	\$ 17,734	152.6	21.3%	100.0%	21.8%	100.0%	478.3	0.0	21.4%

Facility	Roof Status	Approx Size ft2	Solution Type	System Size kW	Estimated Roof Cost (\$14 /ft2)	Estimated Solar Cost Ameresco Turnkey Installation	Max Federal Tax Incentives @ 30-40% ITC and 0% Federal Tax Rate	Annual Production (kWh/year)	Demand Reduction (kW/month)	Energy Savings Avoided \$/Year	Demand Savings Avoided \$/Year	Total Savings Avoided \$/Year	Solar Payback Simple Payback Years
4125 Washtenaw Ave - Children's Services	Replace	34,935	Solar+Roof (30% ITC)	232.9	\$ 489,092	\$ 798,517	\$356,937	291,126	19	\$25,328	\$8,635	\$ 33,963	13.0
4125 Washtenaw Ave - Children's Services	n/a	31,537	Parking Canopy (40% ITC)	184.0		\$ 998,686	\$399,474	229,961	15	\$20,007	\$6,821	\$ 26,828	22.3

FACILITY SNAPSHOT: VETERANS AFFAIRS/FM WAREHOUSE



18,635
Square Feet

1982
Age

\$13,578
Annual Utility Spend

56.9
EUI (kBtu/Square Foot)

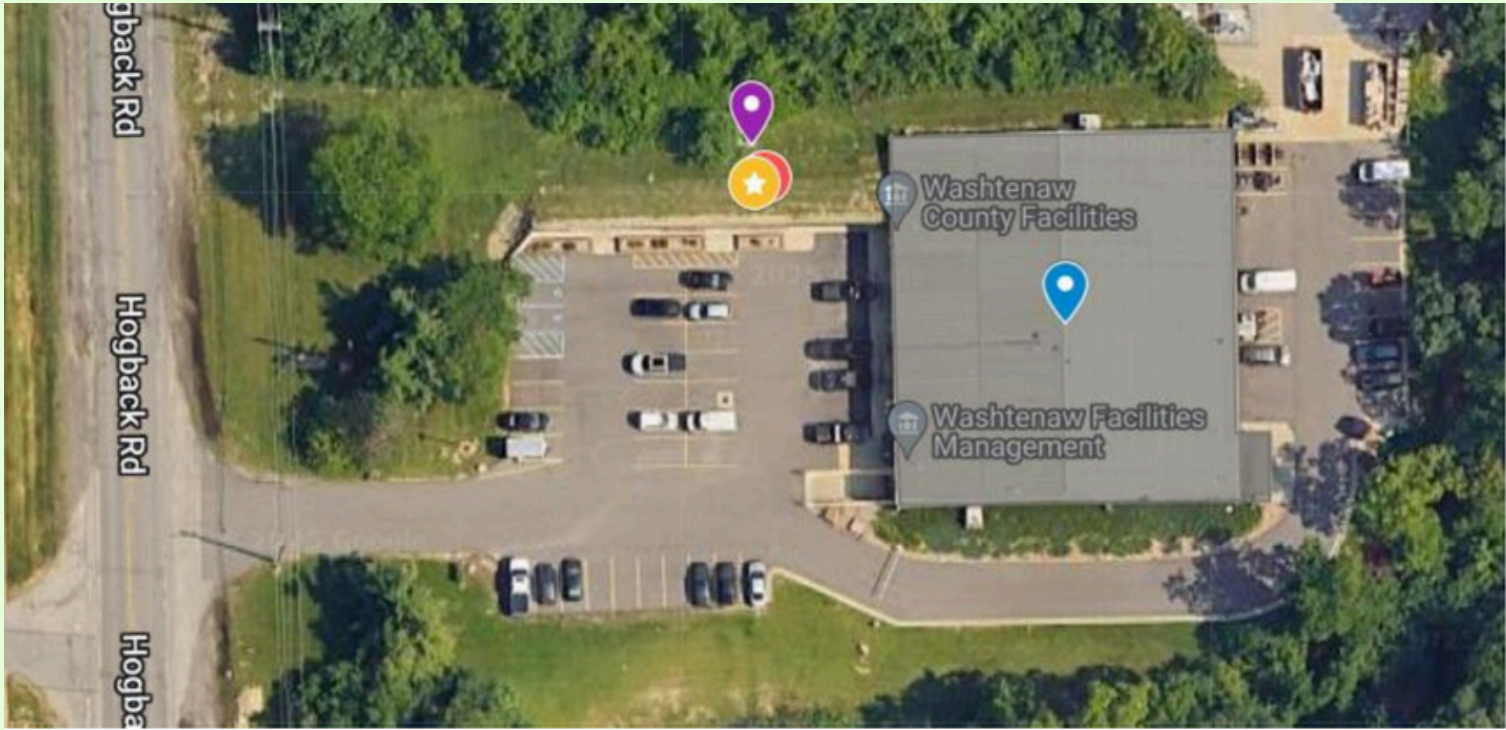
\$.73
Cost/Square Foot

FULL DECARBONIZATION

UPFRONT COST: \$900K- 1M

SIMPLE PAYBACK: 25.5 YR

CO2E OFFSET: 106.6MT/YR



Facility	Roof Status	Approx Size	Solution Type	System Size	Estimated Roof Cost	Estimated Solar Cost	Max Federal Tax Incentives	Annual Production	Demand Reduction	Energy Savings	Demand Savings	Total Savings	Solar Payback
2155 Hogback Rd - VA/Facilities Warehouse	n/a	15,899	S-Clamp Roof (30% ITC)	119.2		\$ 425,877	\$127,763	149,057	10	\$22,359	\$0	\$ 22,359	13.3

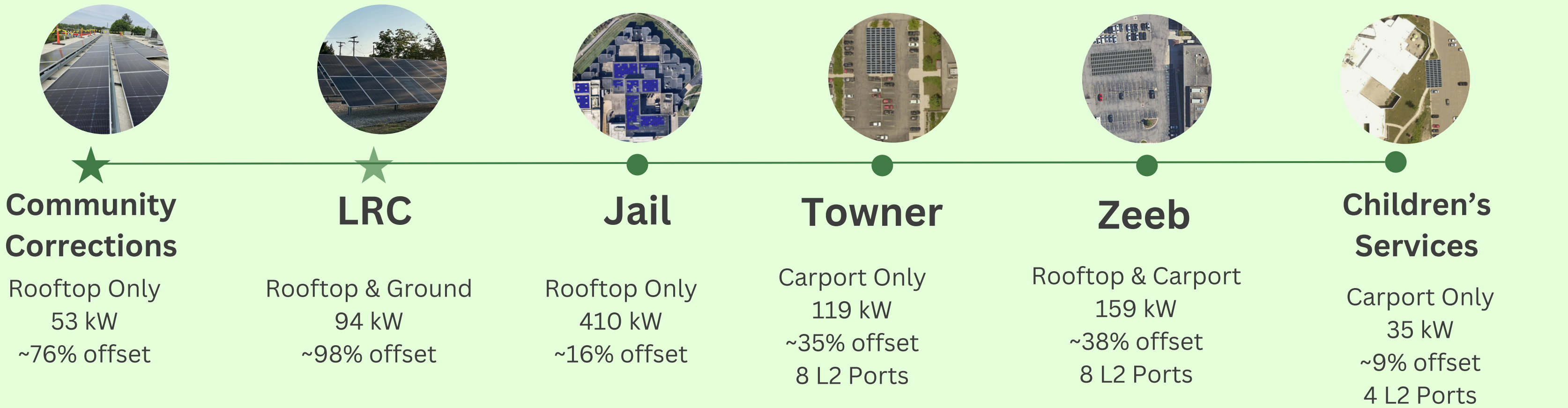
Veteran's Affairs and Facilities Warehouse		18,635	Elec Spend:	\$ 10,938	\$/kWh:	\$ 0.1500	\$/kW:	\$ -
ECM #	ECM Description	ECM Cost /ft2	ECM kBTU /ft2	Residual Value	Incentives	Electricity Savings		
						\$	kW-monthly	kWh
1	CO Monitoring/Control	\$ 0.290	-	\$ -	\$ -	\$ -		
2	Integrate Standalone HVAC	\$ 1.483	6.070	\$ -	\$ -	\$ 414.09		2,761
3	Replace DHW Heaters	\$ 0.235	-	\$ -	\$ -	\$ -		
4	MI SREC*	\$ -	-	\$ -	\$ -	\$ -		0
5	RCx	\$ 0.664	5.132	\$ -	\$ -	\$ 405.11		2,701
6	Electrification	\$ 25.064	21.072	\$ -	\$ -	\$ (10,808.20)		-72,055
7	Solar PV	\$ 25.970	27.300	\$ -	\$ 138,586	\$ 22,358.53	10	149,057
		\$ 54	59.574	\$ -	\$ 138,586	\$ 12,370	10	82,464

NG Spend:		\$ 2,640	\$/mmBtu:		\$ 1.45	\$/sq. foot:							
Annual Gas Savings		Total Util Savings	Annual O&M Savings	Social Cost of Carbon	Total Savings	% Electricity		% Gas Reduction		Carbon Offset	EUI	% Cost Reduction	
\$	MMBTU					\$	kWh	\$	MMBTU				
\$ -		\$ -	\$ -	\$ -	\$ -	0.0%	0.0%	0.0%	0.0%	0.0	56.9	0.0%	
\$ 150	104	\$ 564.44	\$ 423	\$ 1,405	\$ 2,393	3.8%	4.1%	5.7%	12.5%	7.6	50.8	4.2%	
\$ -		\$ -	\$ -	\$ -	\$ -	0.0%	0.0%	0.0%	0.0%	0.0	56.9	0.0%	
\$ -		\$ -	\$ -	\$ -	\$ -	0.0%	0.0%	0.0%	0.0%	0.0	56.9	0.0%	
\$ 125	86	\$ 530.40	\$ 159	\$ 1,227	\$ 1,917	3.7%	4.0%	4.7%	10.4%	6.6	51.8	3.9%	
\$ 926	639	\$ (9,882.22)	\$ -	\$ (3,867)	\$ (13,749)	-98.8%	-106.2%	35.1%	77.1%	-20.9	35.8	-72.8%	
\$ -		\$ 22,358.53	\$ -	\$ 20,957	\$ 43,316	204.4%	219.6%	0.0%	0.0%	113.3	29.6	164.7%	
\$ 1,202	829	\$ 13,571	\$ 582	\$ 19,723	\$ 33,877	113.1%	121.5%	45.5%	100.0%	106.6	-2.7	99.9%	

SOLAR PROJECT

- 6 Facilities across our portfolio
- 870 kW DC Power; generating ~1 MWh annually
- Saving an estimated \$141,000 in annual utility costs (YR 1)
- Avoiding ~815.6 MT in annual CO2e (YR 1)

LOCATIONS



FM Solar Project Snapshot

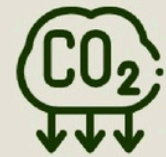
We are very excited for the installation of solar energy at six of our locations in 2025! The following snapshot provides quick facts on the impacts of the project. Be on the look out for updates as progress continues.

Location	Facility Address	Ground Mount	Roof Mount	Car Port
1	4101 Washtenaw	✗	✓	✗
2	4135 Washtenaw	✓	✓	✗
3	2201 Hogback	✗	✓	✗
4	4125 Washtenaw	✗	✗	✓
5	555 Towner	✗	✗	✓
6	705 N Zeeb	✗	✓	✓

SOCIAL COST OF CARBON

As described in Resilient Washtenaw, "The social cost of carbon is a critical metric that measures the economic damages, in dollars, that result from the emission of one additional ton of carbon dioxide into the atmosphere...We utilize the most updated estimate of the average social cost of carbon - \$185/MTCO2e"

ANTICIPATED EMISSIONS AVOIDED FIRST YEAR WITH SOLAR



745 MTCO2E

SOCIAL COST OF CARBON AVOIDED



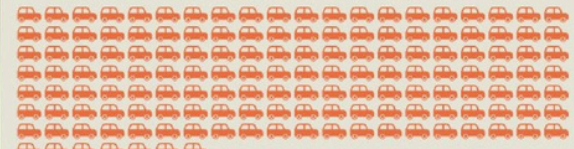
\$137,825

AVOIDED CARBON BY LOCATION



CARBON AVOIDED EQUIVALENT TO THE GREENHOUSE GAS EMISSIONS FROM:

147* PASSENGER VEHICLES



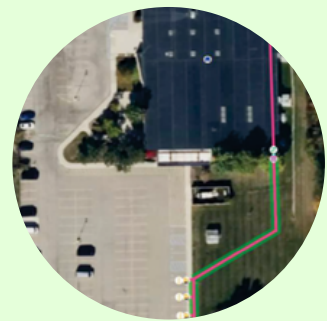
DRIVEN FOR ONE YEAR

EV CHARGING NETWORK

- 2 locations in downtown AA currently have chargers
- 3 locations will get chargers as part of solar project
- 5-7* locations are part of the current EVSE project
- Fleet first; public availability when not needed for fleet
- Exploring charging options for heavy-duty/high-use fleet vehicles



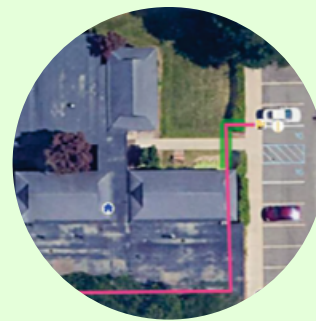
CURRENT PROJECT SCOPE



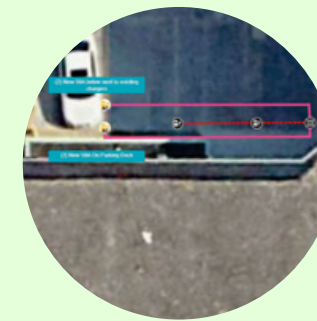
**CMH-
South**
8 L2 Ports



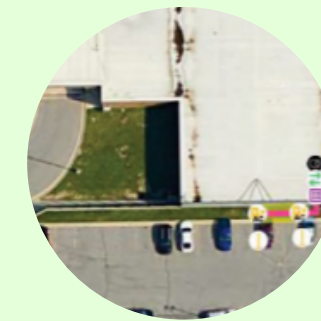
**VA/FM
Warehouse**
6 L2 Ports
1 L 3 Port



**750
Towner**
2 L2 Ports



**Circuit
Court**
2 L2 Ports
(+2 Current)



**Sheriff/
Corrections**
4 L2 Ports

SALINE COURTHOUSE EXPANSION



Fully Electrified Building- 2nd in the County!

- LRC was the 1st; fully electrified in 2015
- Facility doubled in size; old HVAC transitioned
- Electric RTUs & hot-water heater
- 4 EV chargers also added to load

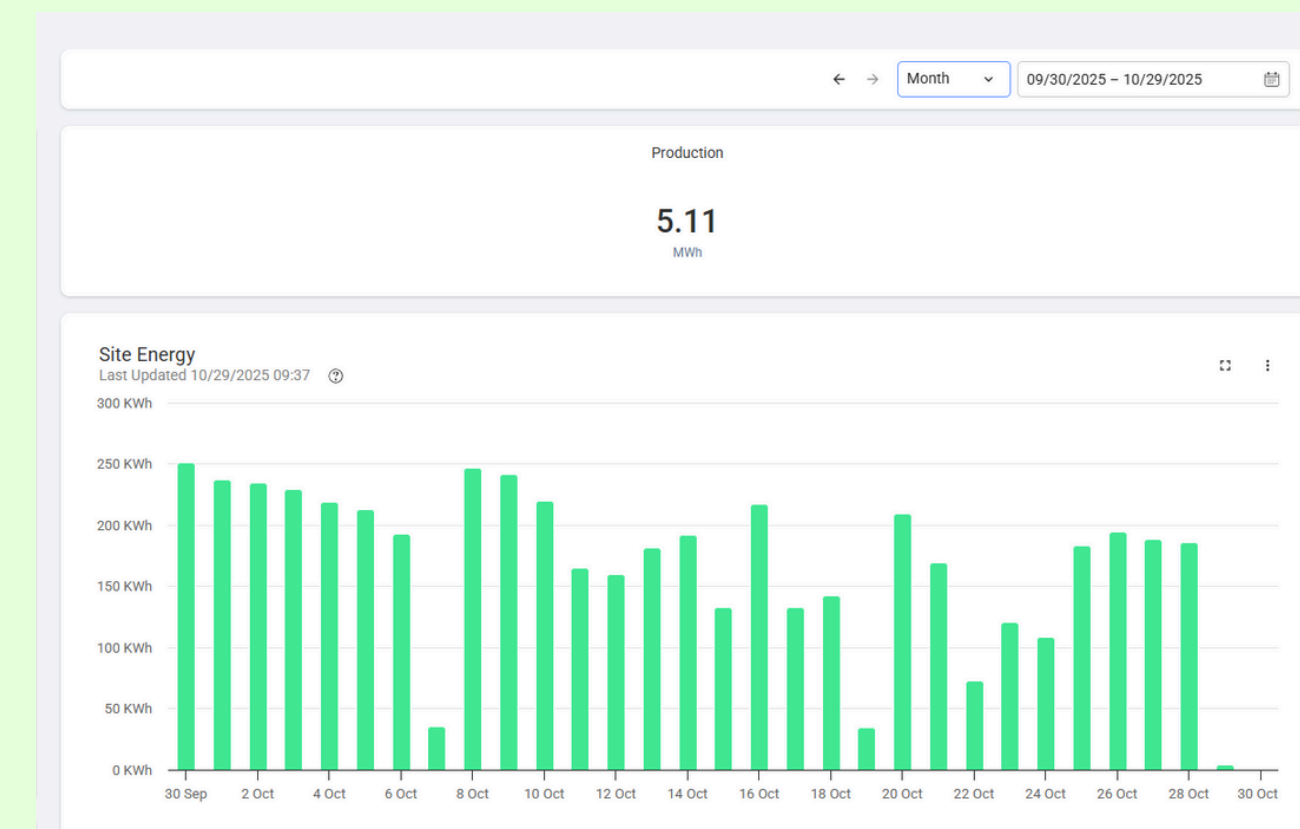
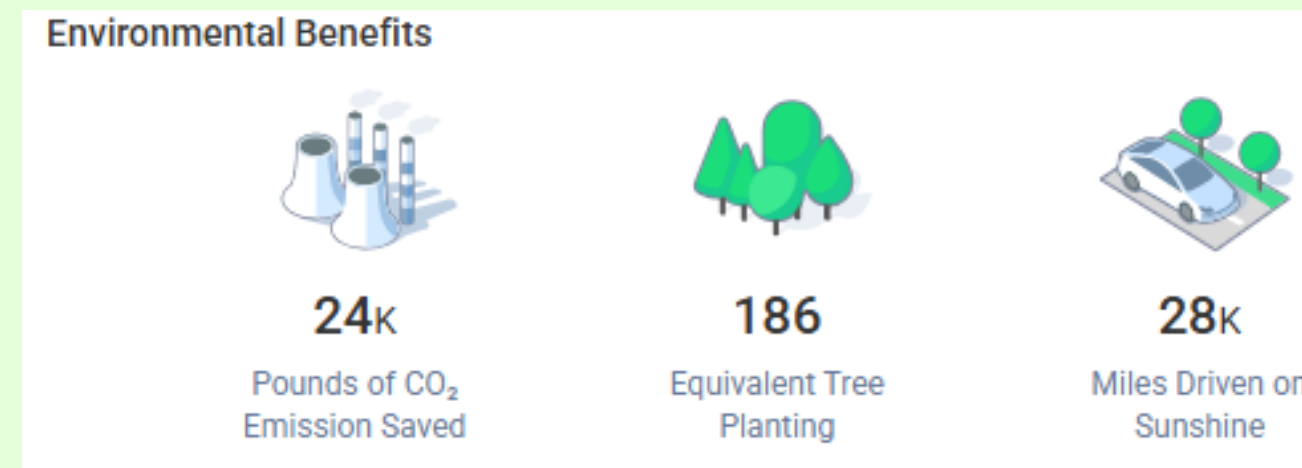
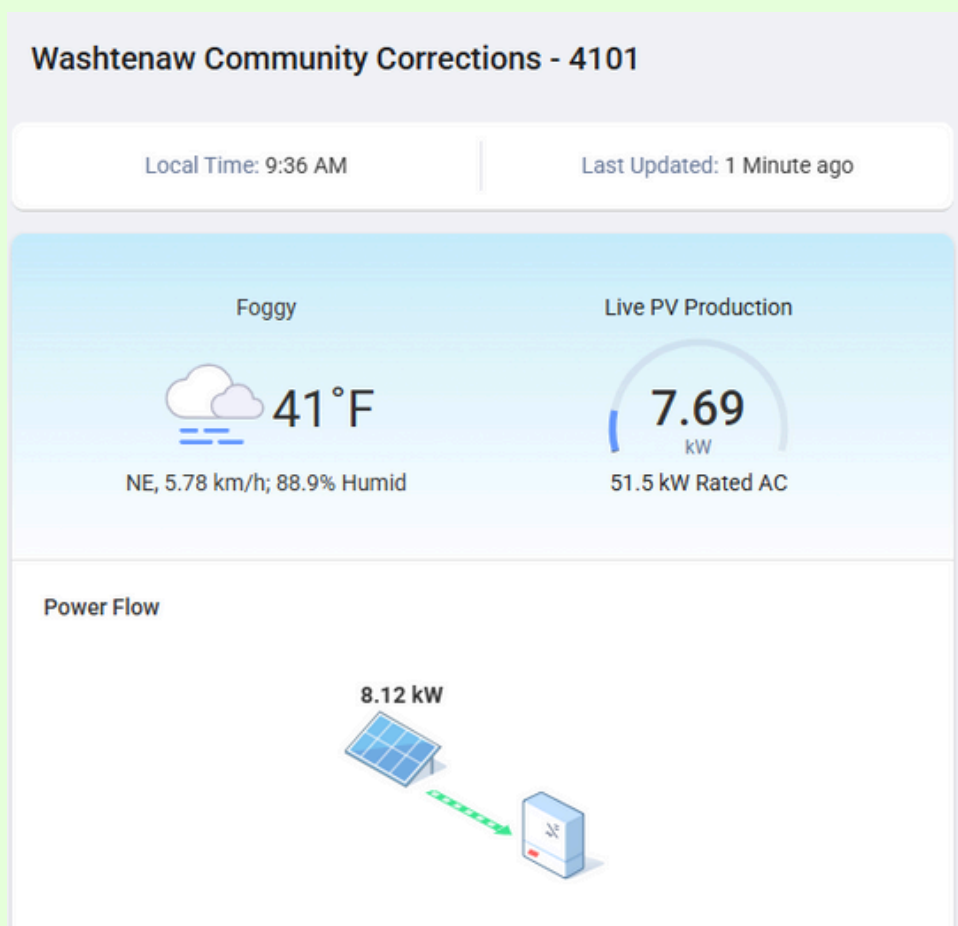


(Mostly) Powered By Renewable Energy

- 73 kW Ground-Mount Solar Array
- ~ 92 kWh Electric Generation
- Offsetting nearly 100% of annual Electric Usage
- 1,492 MT CO₂e avoided (93.5% reduction)
- \$20K savings in year 1; \$1.7 M savings over 35 years (includes social cost of carbon)

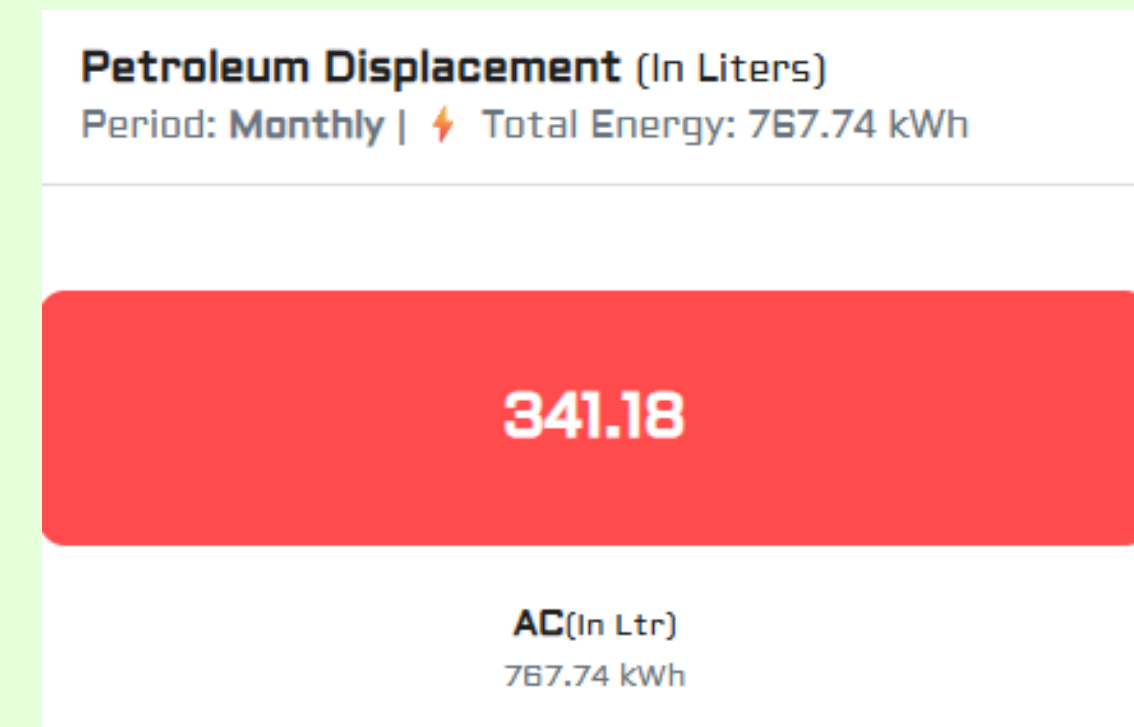
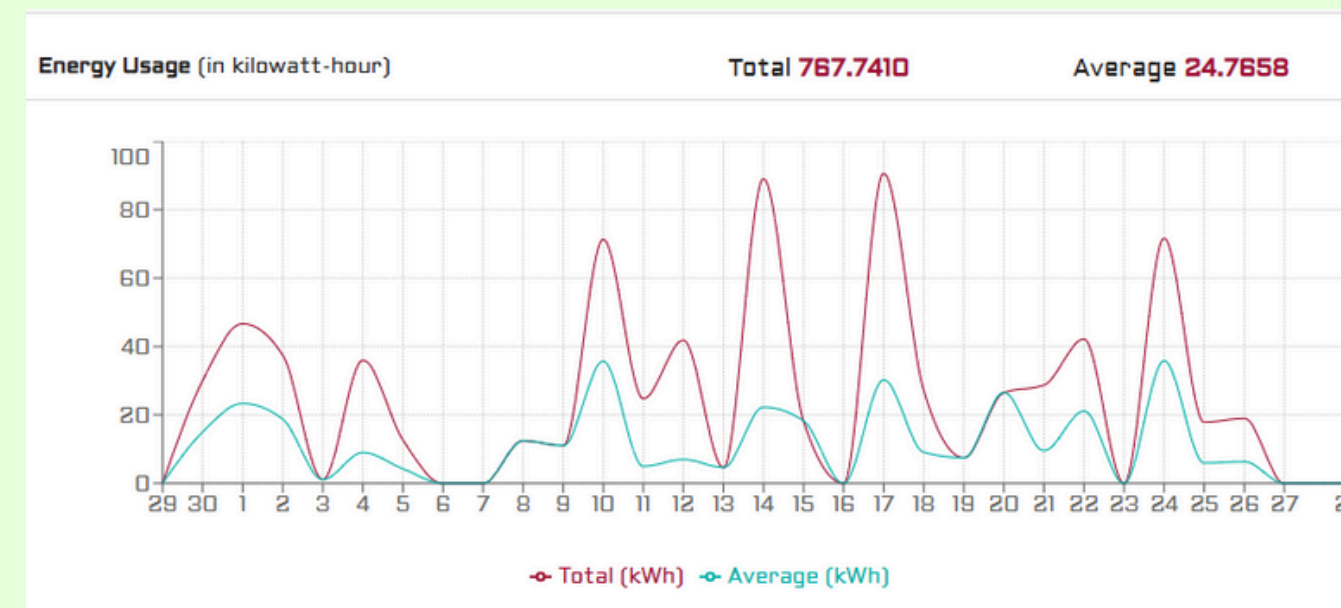
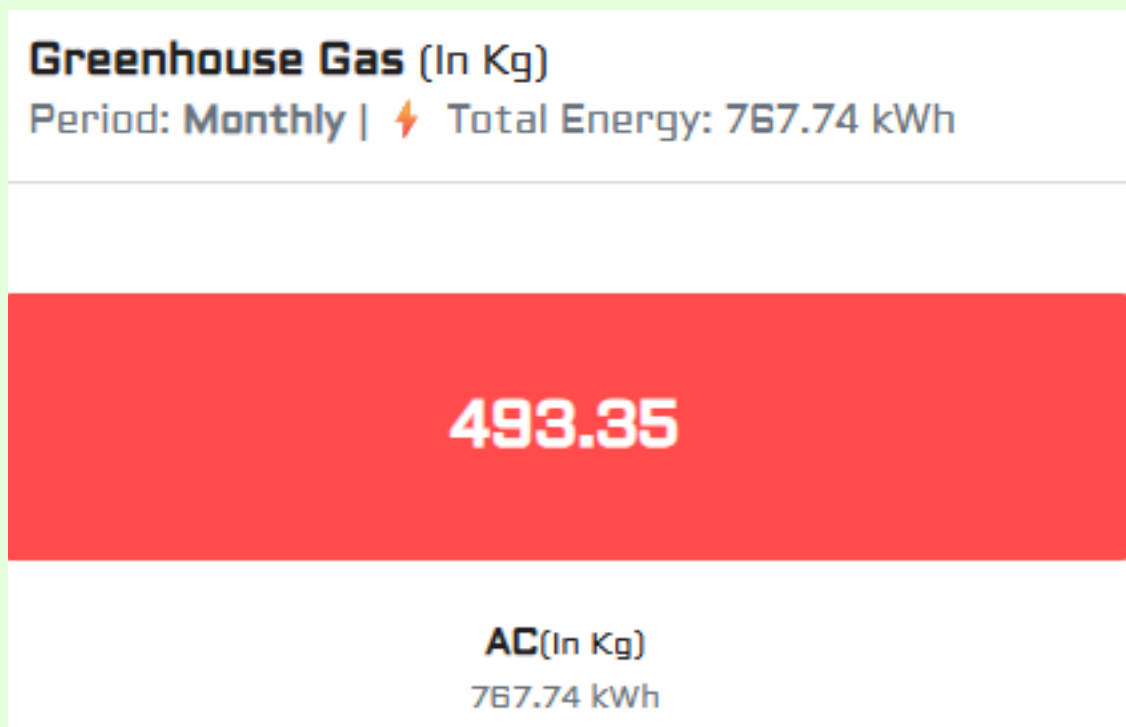
MONITORING AND REPORTING- SOLAR PRODUCTION

- SolarEdge platform for most sites
- Saline Courthouse on separate system
- Cross-check against DTE bills for quality control
- Helps with reporting on utility cost-avoidance



MONITORING AND REPORTING- EV CHARGER USE

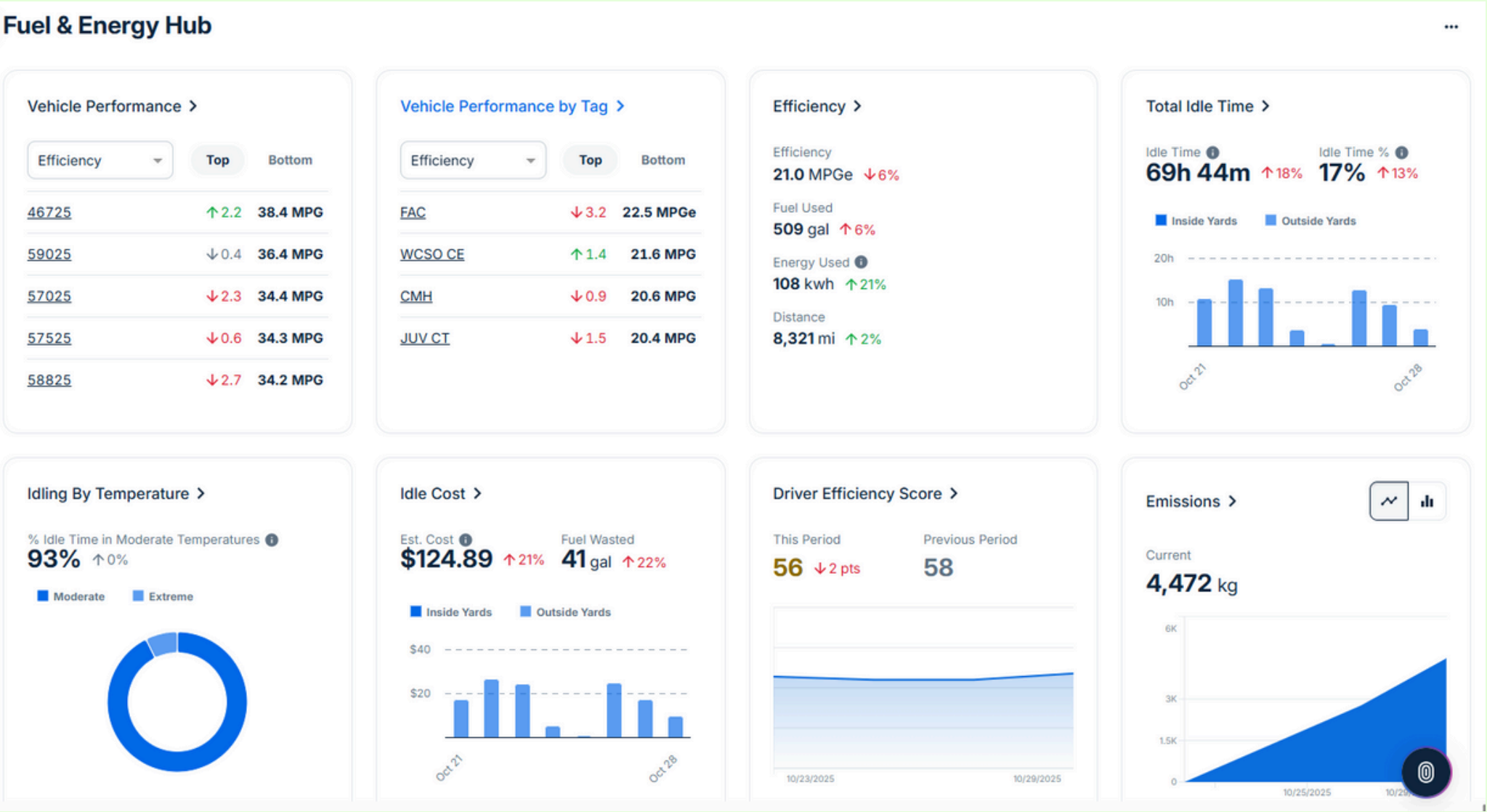
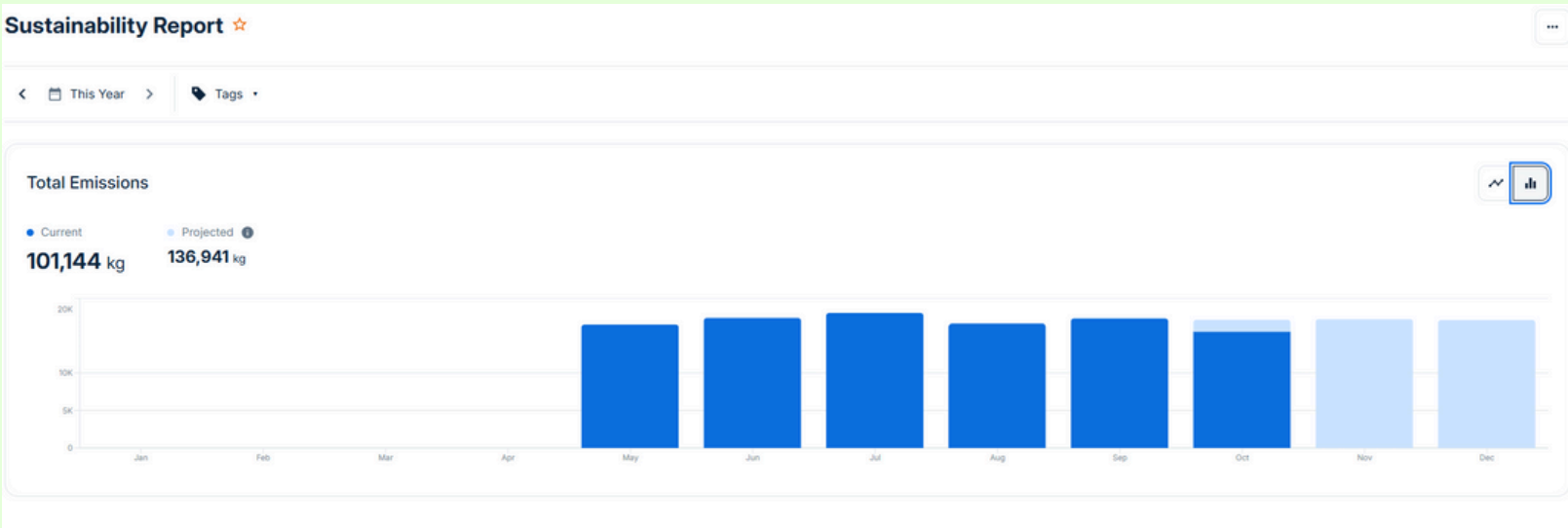
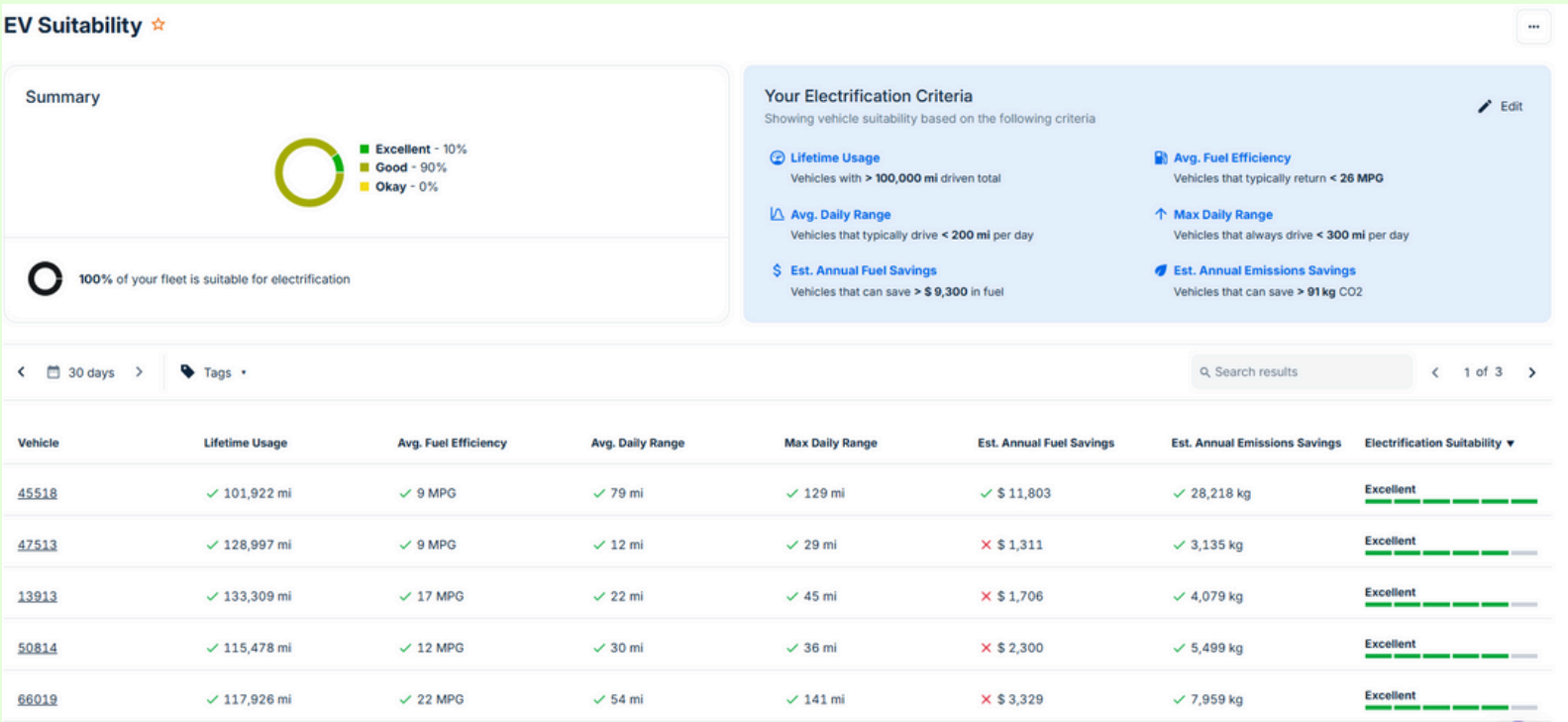
- Red-E Charge: Detroit-based, ensuring quick response time if/when chargers go down
- Can be set up for fleet &/or public use
- Revenue from public use can be utilized for future maintenance or additional chargers
- Ties into other charging platforms (FordPass, Enterprise, etc.)



MONITORING AND REPORTING - VEHICLE TELEMATICS



- **Samsara-** 2025 installed in ~1/4 of fleet; 2026 remainder of fleet will be added
- Data collection will inform fleet electrification planning



THANK YOU!

Presentation to Washtenaw County Environmental Council

NO NEW LANDFILL – Agenda

- Overview
- Environmental Impacts
- Landfill is not needed



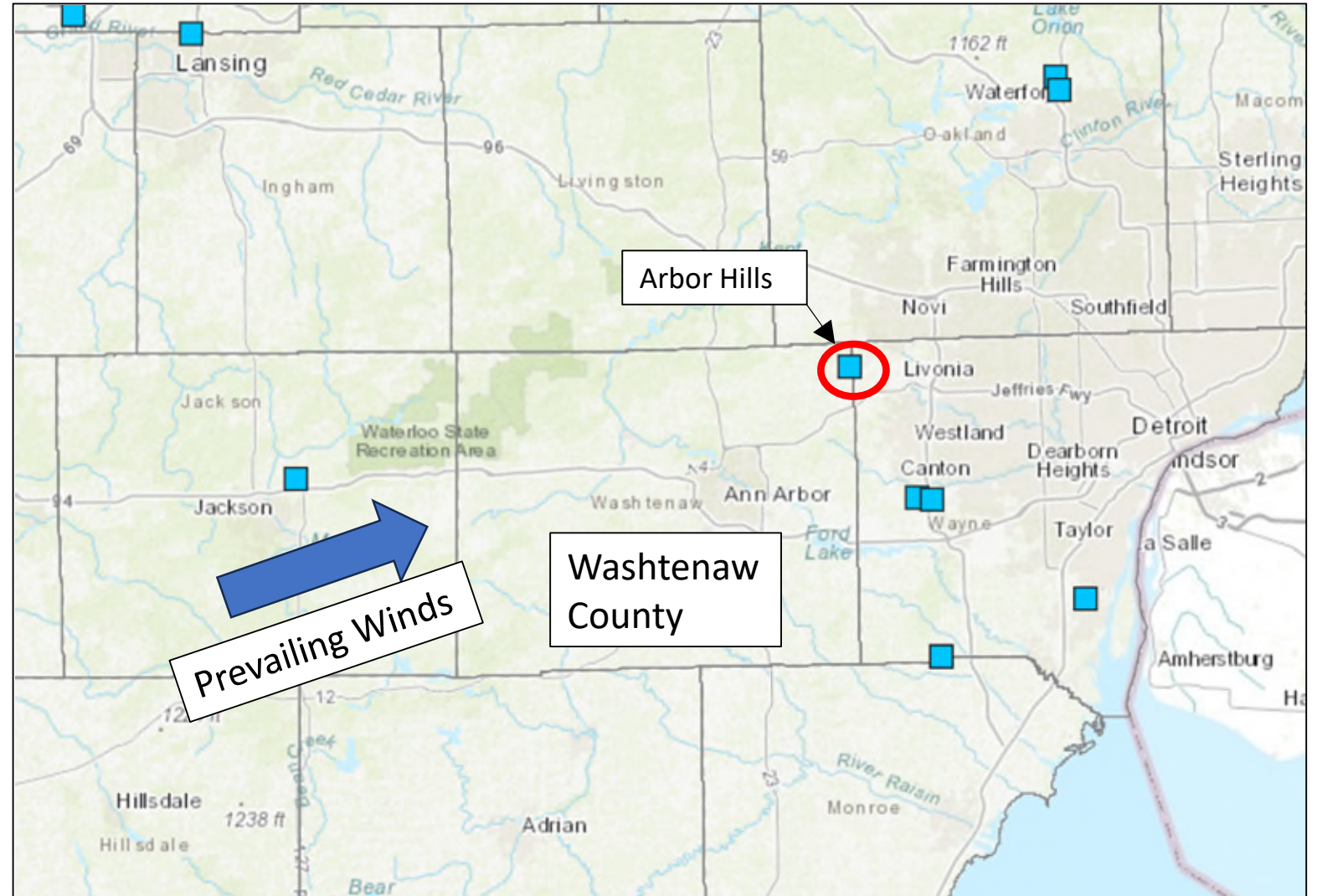
Arbor Hills Landfill Location

Located on the
Wayne/Washtenaw border

Salem Twp and Washtenaw
County are the host communities

Public Infrastructure Used

- Truck route used Wayne County Roads
- Northville Twp Sewer
- Stormwater drains into Northville Twp (Johnson Creek)
- Winds blow towards Northville Township



■ Type II Landfills

Location of the Proposed New Landfill

Arbor Hills Landfill began operating 55 years ago in 1970. Western Wayne County was not developed.

Since 1970, the surrounding areas have developed, and development is continuing.

The proposed location for the NEW LANDFILL is within ~1,000 ft of a residential community.

- More than 10,000 live within 2 miles of the proposed location



Materials Management Planning Committee

- NEW LANDFILL must be included in the MMP
- The MMP Committee is tasked with increasing waste diversion (recycling)

Michigan's Recycling Goals	
Michigan's 2029 Goal	30.0%
Michigan's Long Term Goal	45.0%
Current Recycling Rates	
National Recycling Rate	32.0%
2019 Michigan Recycling Rate	14.3%
2022 Michigan Recycling Rate	19.3%

- One action to incentivize recycling
NO NEW LANDFILL!

MATERIALS MANAGEMENT PLANNING COMMITTEE

- 1 Solid waste disposal facility operator
- 1 Managed materials hauler
- 1 Materials recovery facility operator
- 1 Compost or anaerobic digester facility operator
- 1 Waste diversion, reuse, or reduction facility operator
- 1 Environmental interest group
- 1 Elected official for each: County; Township; and City or Village
- 1 Individual that generates a managed material
- 1 Regional planning agency
- OPTIONAL: An adjacent community business representative



Multi-County MMP: Standard MMPC plus the following may be appointed per additional county

- 1 Elected county or municipal government official
- 1 Business that generates managed materials within the planning area

Washtenaw County Environmental Leadership

Washtenaw County is a Sustainability Leader

- **Resilient Washtenaw** – Committed to carbon-neutral county operations by 2030 and county-wide by 2035
- **Gas-powered lawn equipment** – Ann Arbor is phasing out the use of gas-powered equipment
- **Compostable Waste Collection** – Ann Arbor curbside food scrap collection program
- **Recycle Ann Arbor** – First curbside recycling program in Michigan in 1978
- **Home Toxic Collection** – Efficient operation sponsored by the County



Washtenaw County Environmental Leadership

Why Does Washtenaw Host Arbor Hills?

Excess Landfill Capacity – [Michigan has the most landfill capacity per capita](#), which discourages recycling.

Washtenaw does not need a landfill

CO₂e emissions – 611,000 MTCO₂e/yr. A significant source in the county

Waste Importer – Washtenaw imported 1,865,000 tons of waste from outside the county

Compliance Issues – Arbor Hills' compliance record is poor. More than \$1.5 M in fines, \$2.0 M in beneficial project to offset fines, and \$ 10's M in required capital improvements



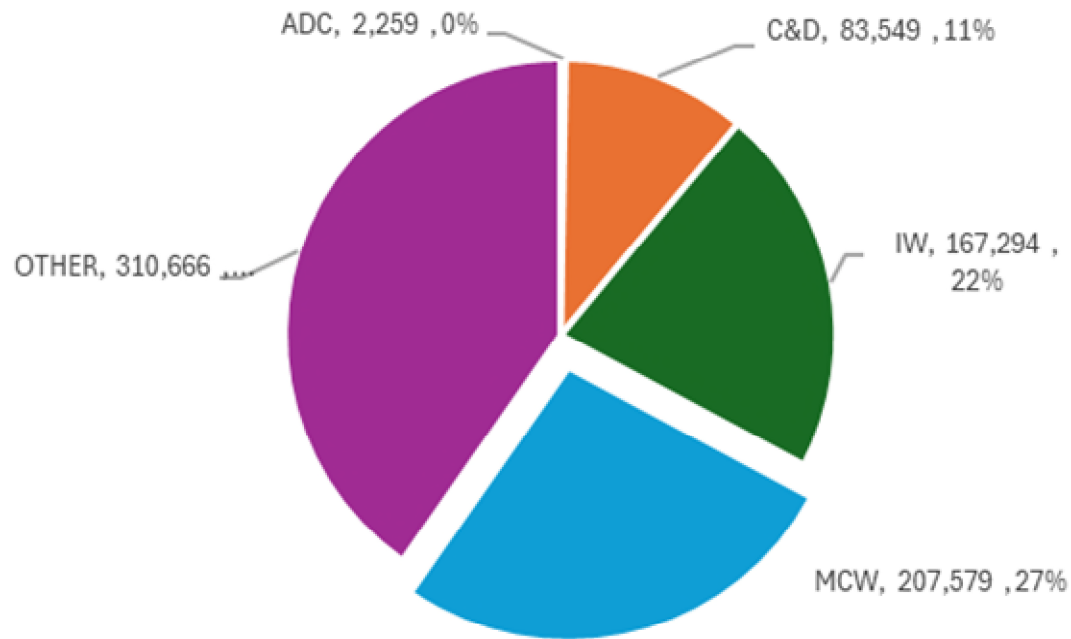
Arbor Hills Impacts / Issues

On-going Landfill Issues

- **Odor issues continue to be a major problem despite enforcement actions**
 - EGLE reports that Arbor Hills causes more odor complaints than any other facility in Michigan
- **Ongoing PFOS discharges to Johnson Creek -**
 - No actions taken to hold the landfill accountable
 - The community is frustrated as the issue was identified by the community in 2021, but little has been done to correct it.
- **Environmental enforcement is ineffective when dealing with recalcitrant companies.**
 - EGLE allocates excessive resources to monitor a small number of bad actors.
 - Polluters' pay regulations/policies are needed.
- **Salem Township Benefits at the expense of Northville Township**
 - Arbor Hills is located on the border with Northville Township, but Salem Township receives all proceeds from the Landfill.
 - Northville Township has no oversight of Arbor Hills
 - The landfill uses Northville Township (Wayne Co.) roads and sanitary sewer.
 - Excess emissions and litter blow into Northville Township.
- **Tipping fees are too low, resulting in significant Canadian waste**
- **Wear and tear on Wayne County Roads, litter, and track out.**
- **Birds, Truck Traffic, Litter, Noise ...**

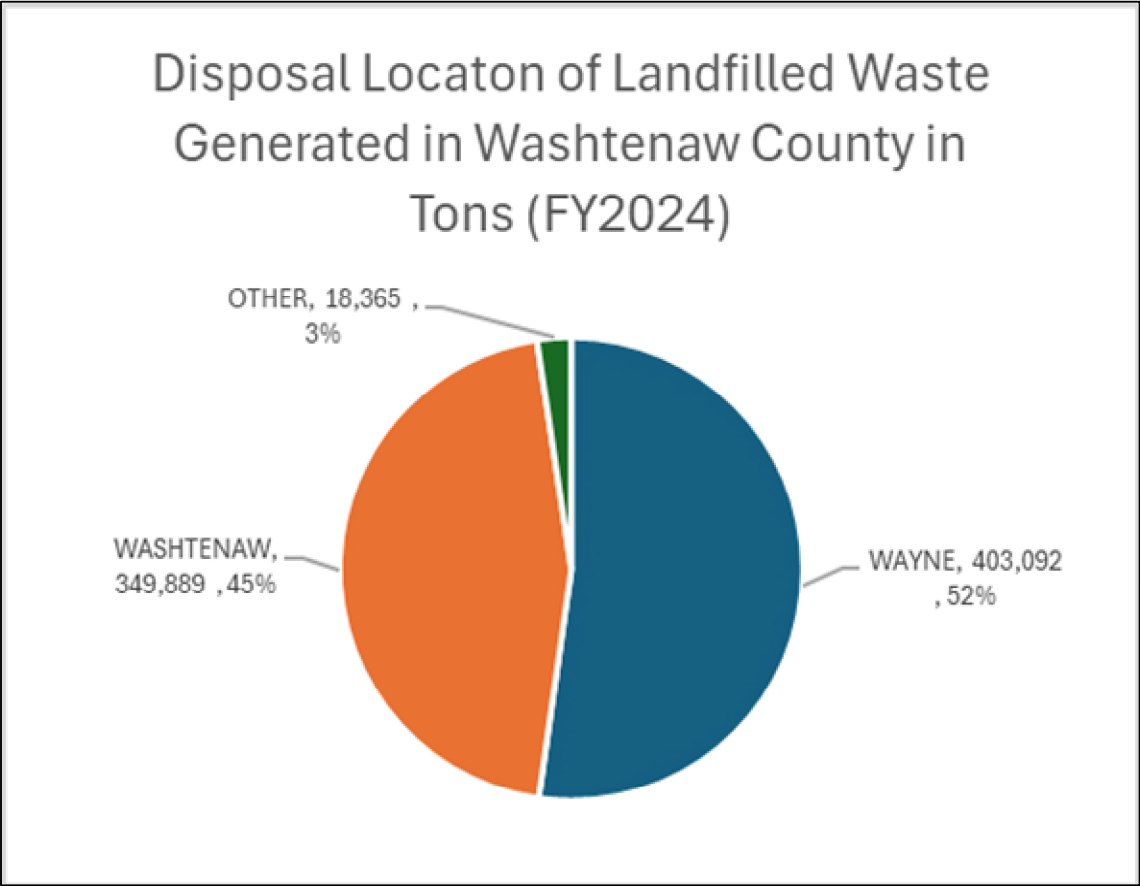
Washtenaw County Waste Generation

Landfilled Waste Type Generated in
Washtenaw County in Tons (FY 2024)

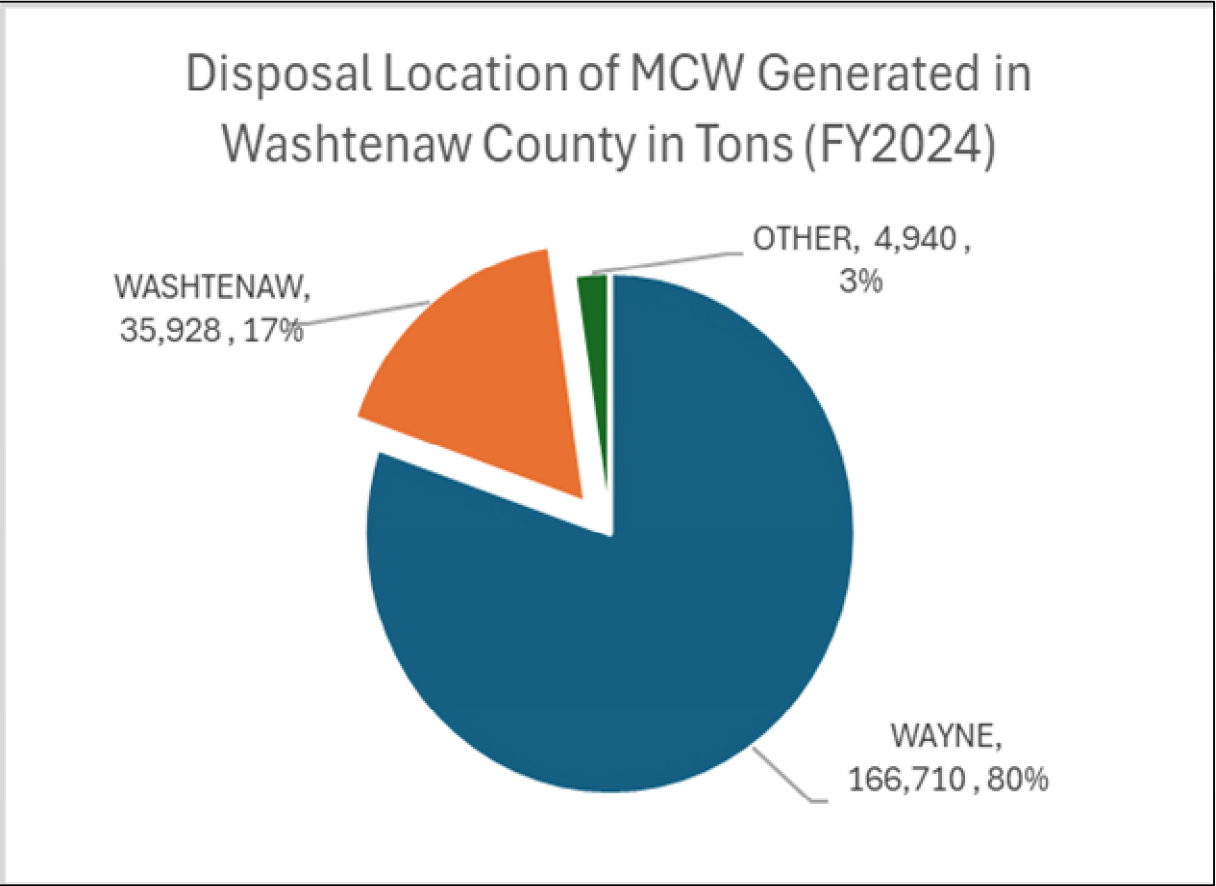


- Washtenaw County generated 771,346 tons of waste in FY2024
- Municipal and Commercial Waste (MCW) has the greatest recycling potential
- The efforts of the MMP committee are focused on MCW
- Industrial Waste (IW) and OTHER Waste (Contaminated Soils) have very limited recycling opportunities

Washtenaw County Waste Disposal Locations



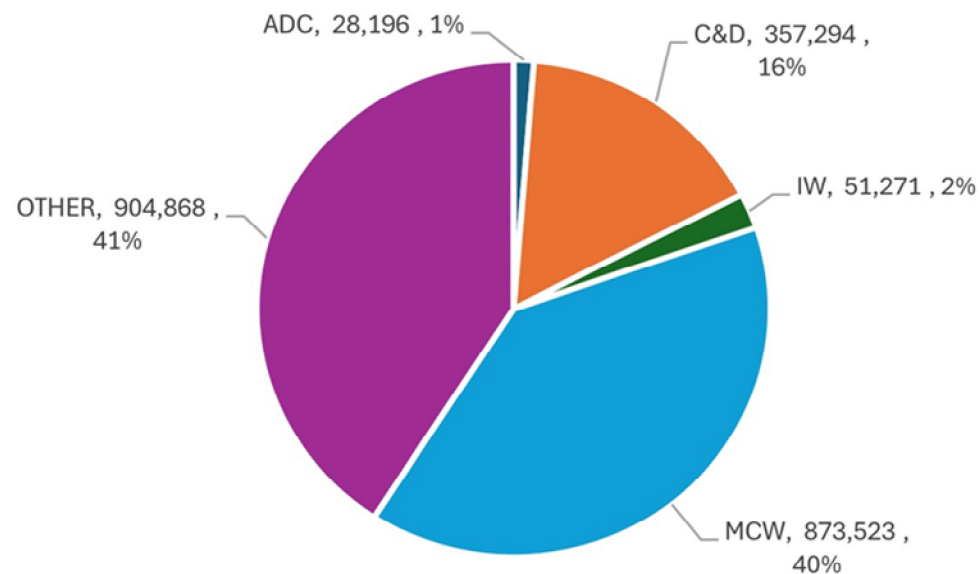
Includes wastes with limited opportunity for recycling (IW and OTHER)



MCW waste only. MCW waste must be moved regularly to avoid health and safety issues

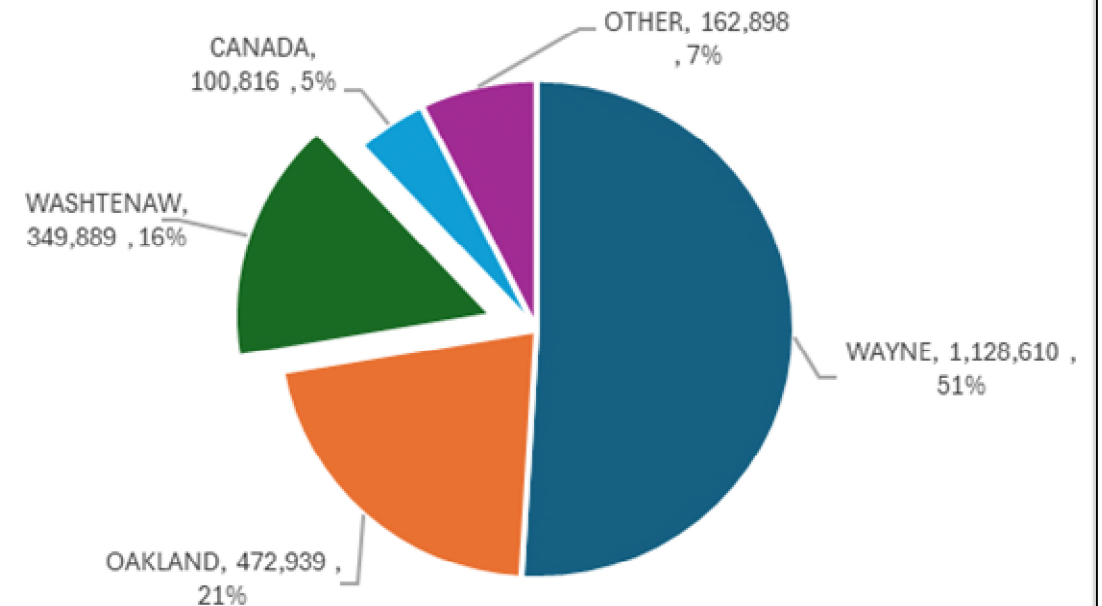
What Does Arbor Hills Accept?

Arbor Hills Landfill Waste Accepted by Type in Tons (FY2024)



- Arbor Hills accepted 2,215,152 tons of waste
- Nearly 3x the amount of waste generated in all of Washtenaw County

Arbor Hills Landfill Waste Accepted by Generating Location in Tons (FY2024)



- Only 16% of waste was generated in Washtenaw
- 84% was generated outside of Washtenaw; mainly Metro Detroit (Wayne and Oakland Co. and Canada)

When will the Washtenaw MMP be Approved?

- Public participation meetings will be held in **February and May of 2026**
- MMP Committee will deliberate and vote to approve a DRAFT MMP in **June 2026**
- 60-day Public Comment and a Public Hearing will run from June to **August 2026**
- Committee will give final approval in **September 2026**
- Washtenaw County Commissioners approve the MMP in **October 2026**
- 2/3 of Washtenaw County municipalities must approve the MMP by **February 2027**



Community Town Hall
January 12th
Northville High School

The Conservancy Initiative

Community Town Hall
January 12, 2026
Northville High School
45700 Six Mile Road, Northville

Subscribe for updates at
<https://conservancyinitiative.org/>

Dave Drinan
ddrinan10@gmail.com
734.748.6217



NO NEW LANDFILL!!!

The following attachments are from Roger Rayle, Coalition for Action on Remediation of Dioxane.

Included are:

- Gelman Site Information Infrastructure diagram
- Timeline 1984-2017
- Google Earth imaging
- Data plots and maps

Gelman/Pall/Danaher

Gelman Lawyers

drillers

Consultants

labs

Former
Gelman
employees

Court

AG

DEQ/EGLE

DNR,DNRE

MDPH

US Reps &
Senators

State Reps &
Senators

Washt WRC

Washt Cty

EPA

GAA Group

AA City

Scio Twp

AA Twp

CARD

IPC

SRSW

PON,
CRC, etc

Press

public

Lawyers
Experts

Lemke

Bicknell

HRWC

Ecology
Center

UMich

UMSI

SEAS

TOSC,
USGS, etc

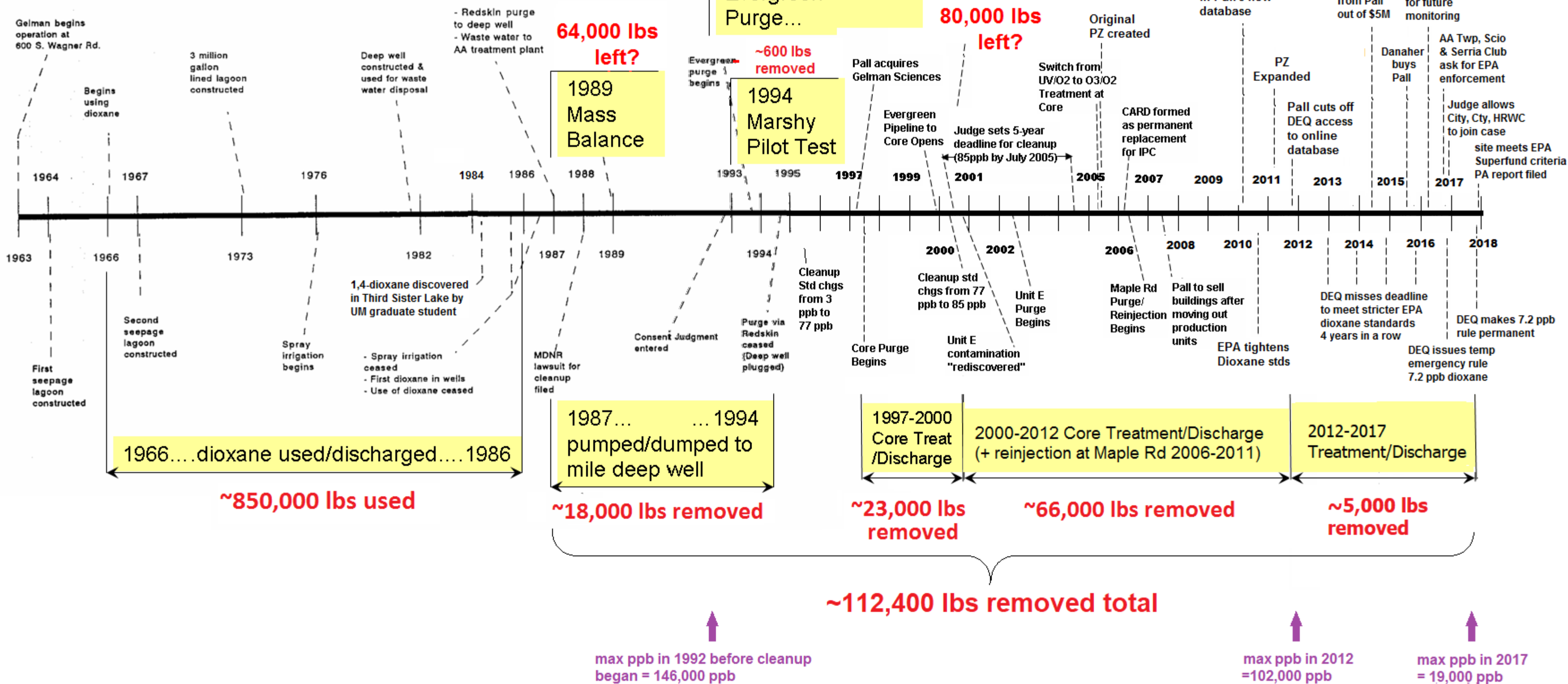
Sierra Club

AAPS

AADL



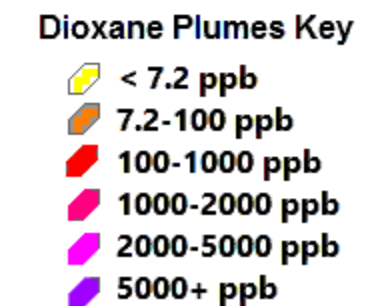
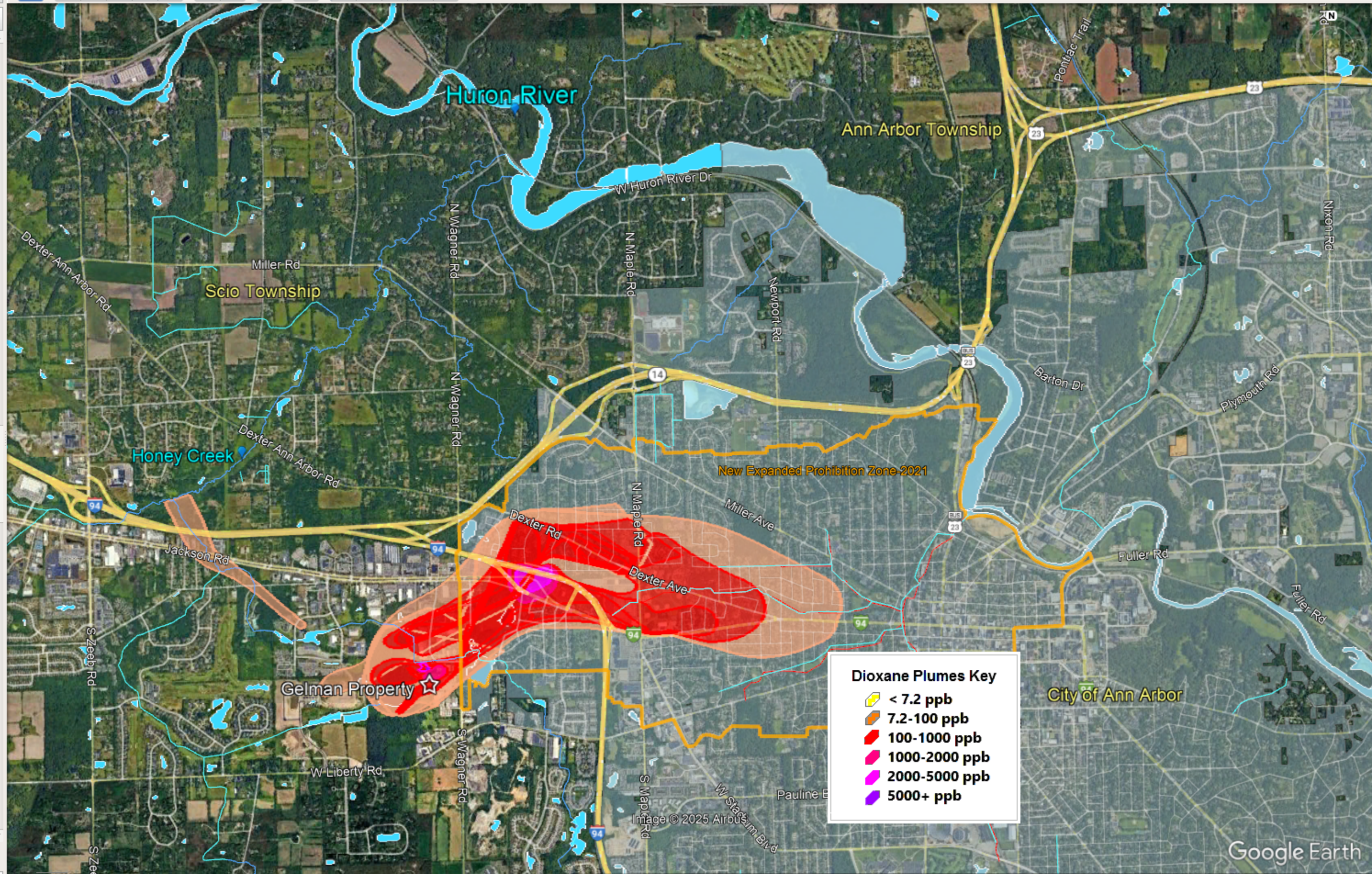
1994 DNR SUMMARY GELMAN SCIENCES TIME LINE (EXTENDED)



Search

Places

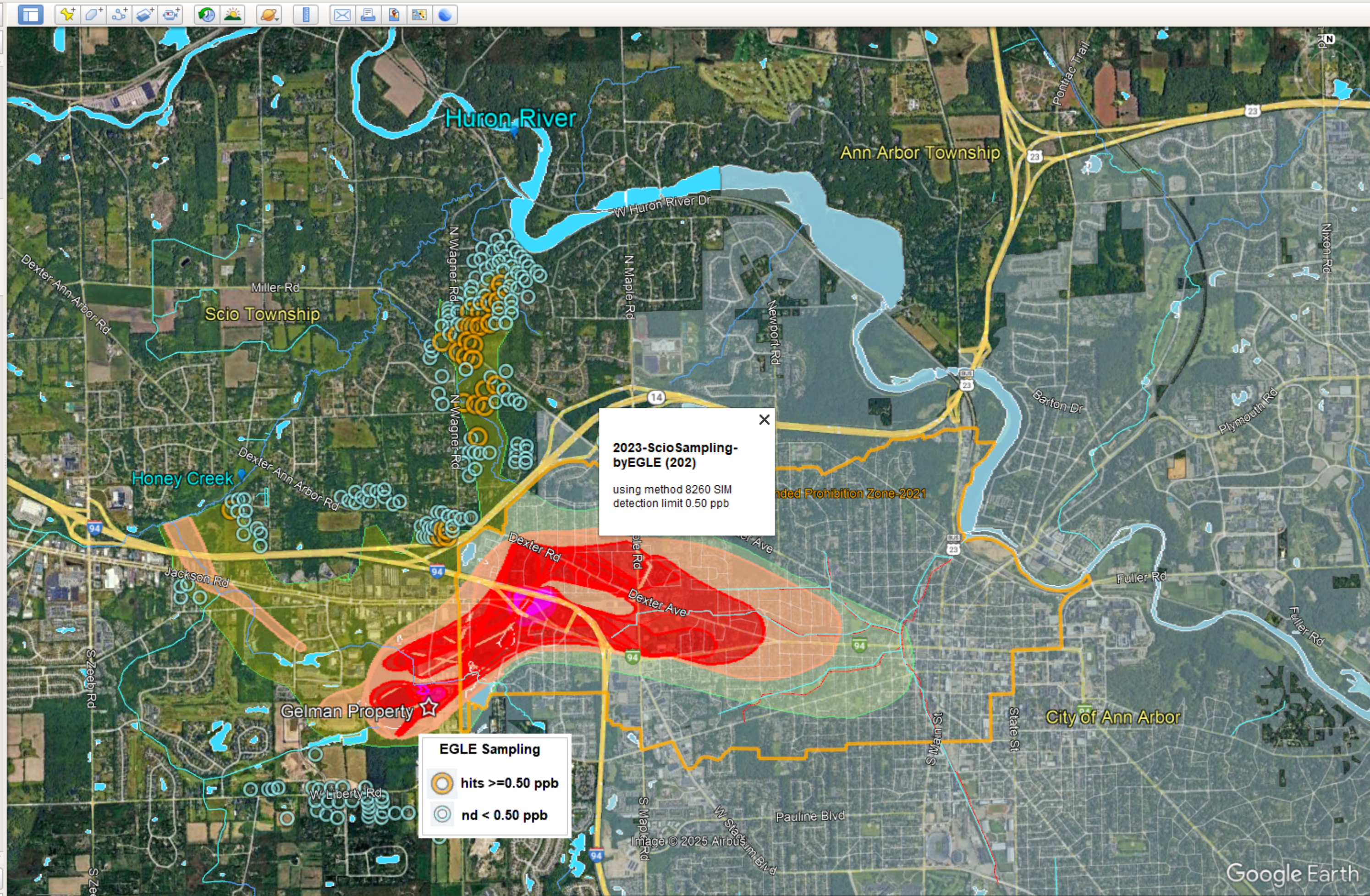
- ☒ **AA City Boundary-2021**
- ☐ Feature Names
- ☐ **931215 DNR mta-Plume+1000ft-fr**
- ☐ **1986-2020 Plumes**
- ☐ Dioxane Plumes
- ☐ **2021 Plumes**
at ~1, 7.2, 100, 280, 500, 1000, 2000, 5000+ ppb
- ☐ **2022 Plumes**
at ~1, 7.2, 100, 280, 500, 1000, 2000, 5000+ ppb
- ☐ **2023 Plumes**
at ~1, 7.2, 100, 280, 500, 1000, 2000, 5000+ ppb
- ☒ **2024 Plumes**
at 7.2, 100, 280, 500, 1000, 2000, 5000+ ppb from Gelman's 3rd qtr report 2024 & ~1
- ☒ **2024 2D Plumes**
from Gelman plume maps
+ ~1 ppb est plume from SRSW
- ☒ **Dioxane Plumes Key**
turn this on with plumes for ppb levels
- ☐ **2024 3D Plumes**
from Gelman plume maps
+ ~1 ppb est plume from SRSW
- ☐ Marshy Area (from 2022)
- ☐ Shallow Plumes
- ☐ Deep Plumes
- ☐ **2023-plume ~1ppb est**
SRSW estimate
- ☐ **2021 Gelman Plume Maps**
from Gelman's 3rd qtr report 2021
- ☐ **2022 Gelman Plume Maps**
from Gelman 3rd qtr report 2022
- ☐ **2023 Gelman Plume Maps**
from Gelman 3rd qtr report 2023
- ☐ Rockworks-plumes+key-2020.kmz
- ☒ **Well Prohibition Zones**
Where no supply wells are allowed because of the dioxane
- ☐ PLS PZ draft.kmz
- ☐ PZ-drafts-map
- ☐ **PZ Outline - 2005**
Well Prohibition Zone Outline - Original 2005
- ☐ PZ expansion proposals
- ☐ **PZ-EG Outline-2011**
Pall-Gelman's expanded Well Prohibition Zone outline - Evergreen Area from



Search

Places

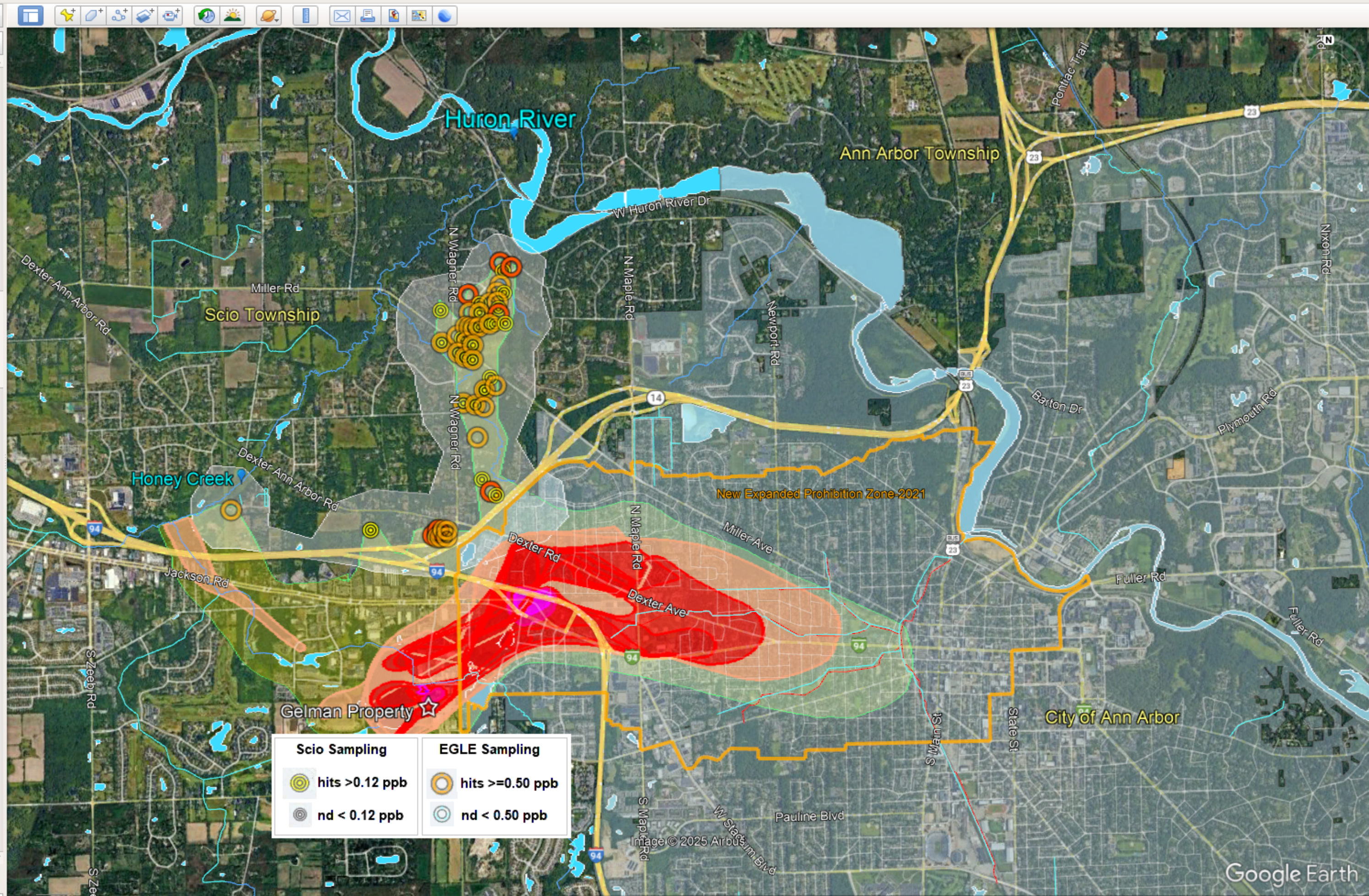
- +2021-2025 New Samplina.kmz
 - SlausonGeoThermo-2025
 - Slauson Middle School
 - 1019 W Washington St, Ann Arbor, MI 48103
 - SlausonGeoThermoMap
 - Slauson Geothermo Key
 - TMW-1
 - Slauson GeoThermo Test Well #1 - south
 - Depth ppb
 - TMW-2
 - Slauson GeoThermo Test Well #2 - north
 - Depth ppb
 - path thru TMW-1,2_RL-12_13
 - N-S thru Slauson
 - MW-142_143_144_145_146.kmz
 - MW-142_143_144_145_146
 - MW-147sd
 - both s & d nd so far
 - MW-148-149-150.kmz
 - MW-148sd
 - Date ppb
 - 05/01/25 1.0
 - MW-148-149-150
 - TW-24 + TW-25
 - 2433 Blueberry Lane.kmz
 - 2021-2022-ScioSampling (127)
 - 2021-2022 Scio Sampling
 - using Method 522 detection limit 0.12 ppb
 - Scio Sampling Key
 - dioxane found (29)
 - non-detect (98)
 - 2023-ScioSampling-byEGLE (202)
 - using method 8260 SIM detection limit 0.50 ppb
 - 2024 Dioxane Sampling Map
 - FY2024 1,4-Dioxane Sampling
 - FY2023 Sampling - OVERALL
 - EGLE Sampling Key
 - EGLE Sampling Key-hits
 - Scio Sampling Key-hits
 - 2023-found (30)
 - 2023-ND 0.12-0.49 (7)
 - 2023-ND (165)
 - 2025 new 1st time hits+ppb.kmz
 - 2025 new 1st time hits+ppb
 - 2529 Thornapple Dr - 0.39 ppb
 - 2529 Thornapple Dr, Ann Arbor, MI 48103
 - 2925 Parkridge Dr - 0.45 ppb
 - 2925 Parkridge Dr, Ann Arbor, MI 48103



Search

Places

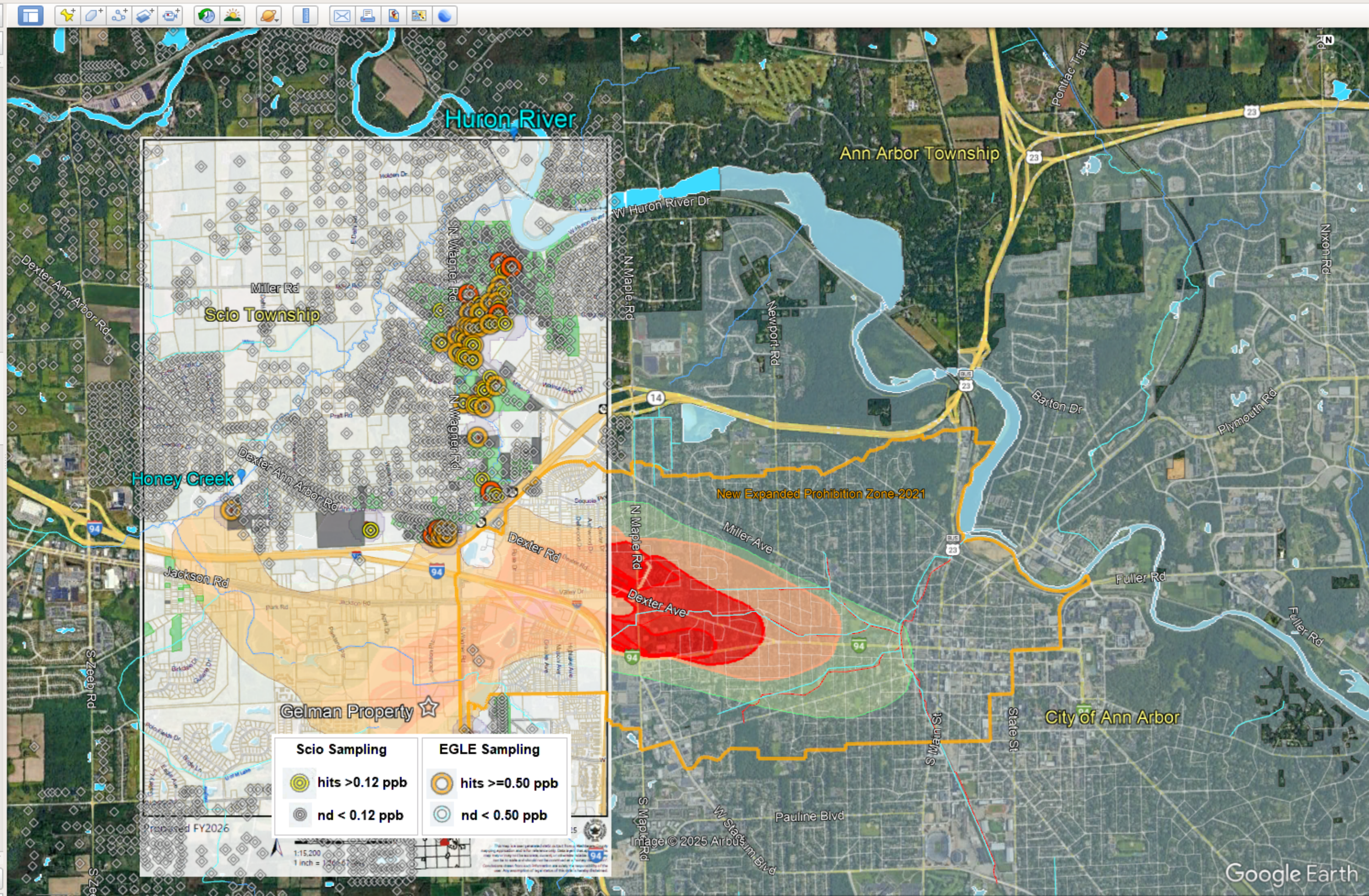
- ☒ ☒ [2925 Parkridge Dr - 0.45 ppb](#)
2925 Parkridge Dr, Ann Arbor, MI 48103
- ☒ ☒ [3311 Woodlea Dr - 0.38 ppb](#)
3311 Woodlea Dr, Ann Arbor, MI 48103
- ☒ ☒ [3444 Robinwood Dr - 0.34 ppb](#)
3444 Robinwood Dr, Ann Arbor, MI 48103
- ☒ ☒ [3574 Elizabeth Rd - 0.33 ppb](#)
3574 Elizabeth Rd, Ann Arbor, MI 48103
- ☒ ☒ [3601 Elizabeth Rd - 0.34 ppb](#)
3601 Elizabeth Rd, Ann Arbor, MI 48103
- ☒ ☒ [776 Rose Dr - 0.40 ppb](#)
776 Rose Dr, Ann Arbor, MI 48103
- ☒ ☒ [2025-plume ~0.12-4.0 ppb est](#)
SRSW estimate
- ☐ ☐ 1/2 mile radius from prior hits - Scio Twp
- ☐ ☐ 1/2 mile radius from prior hits - AA Twp
- ☒ ☐ 1000ft for Scio hits
- ☐ ☐ 1000ft for AAtwp
- ☐ ☐ 1000ft-from well hits
- ☐ ☐ Craig-Deerfield elevation
- ☐ ☐ Xsects-paths+links
- ☐ ☐ EGLE-Rockworks-KML-layers
- ☐ ☐ Boreholes-fromDEQ-Rockworks
- ☐ ☐ All_Bore_Locations_20220606
- ☐ ☐ All_Bore_Locations
- ☐ ☐ [SB SG-X Locations-Rockworks2022](#)
from Rockworks data exported 2/14/2022
- ☐ ☐ 2020-2023 Surface Water Sampling
- ☐ ☐ [Gelman Property Boundary approximate](#)
- ☐ ☐ [Prohibition Zone 3rd CJ 2011](#)
- ☐ ☐ [Prohibition Zones 4th CJ](#)
- ☐ ☐ RockworksStudyArea
- ☐ ☐ RockworksStudyAreaOutline.kmz
- ☐ ☐ RockworksStudyAreaOutline
- ☐ ☐ SEMCOG LIDAR relief map
- ☐ ☐ Surface_Water_Features
- ☐ ☐ TribFlows-EGLE-Arrows-2
- ☐ ☐ SurfWaterSampling-thru2021.kmz
- ☐ ☒ **2021-Mashup.kmz**
- ☐ ☒ **2021-Mashup+2024maps**
Gelman site base layers, data, plumes
1986-2021
- ☐ ☐ **Water Features**
Lakes, Streams, Drains, Recharge Areas, etc.



Search

Places

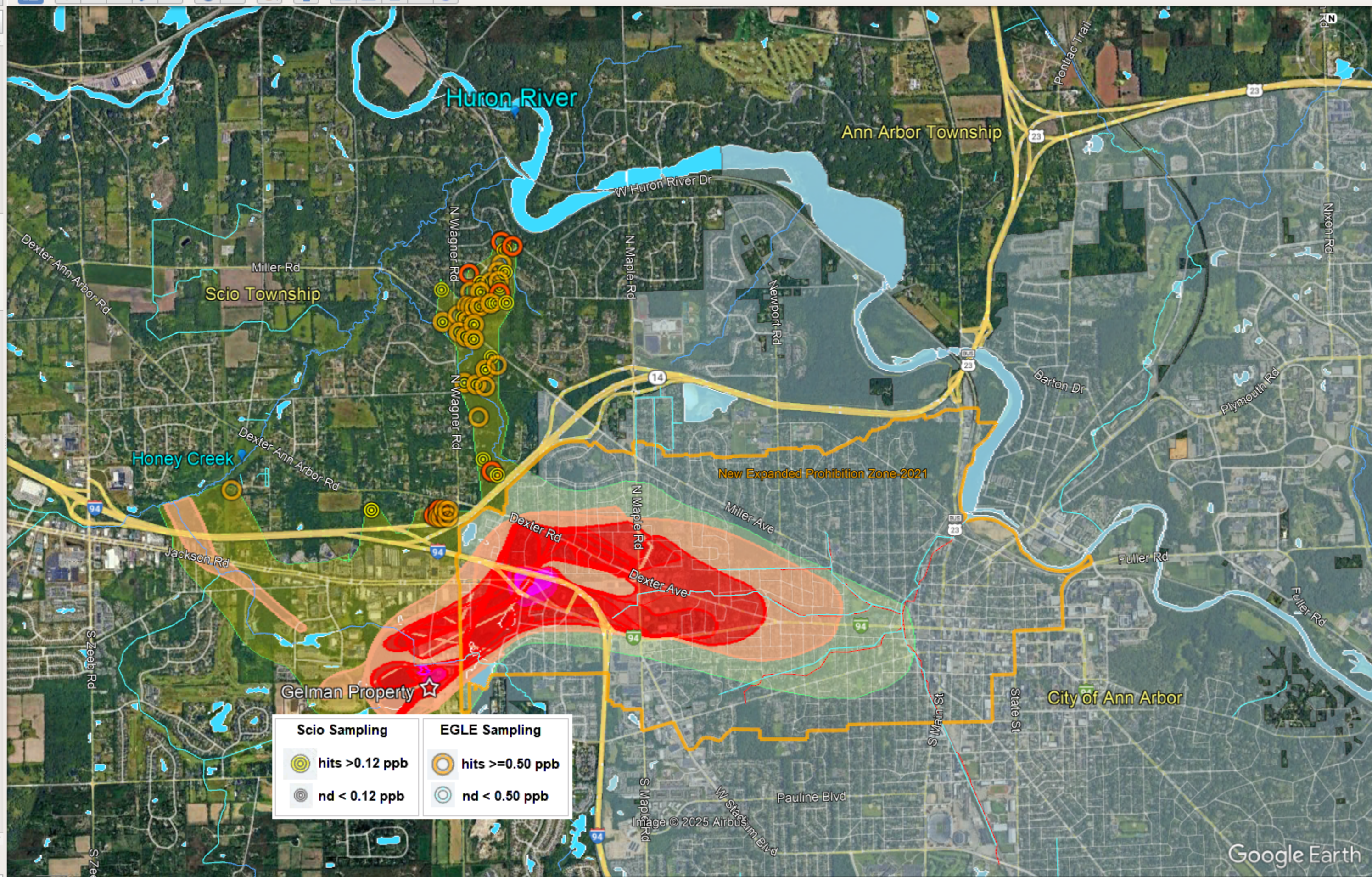
- RockworksStudyAreaOutline.kmz
- RockworksStudyAreaOutline
- SEMCOG LIDAR relief map
- Surface_Water_Features
- TribFlows-EGLE-Arrows-2
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- ☒ Lakes in Washtenaw County
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Streams in four township area
- ☒ County Drains
County Drains in four township area
- Affected Watersheds
- Groundwater Recharge Areas
Groundwater Recharge Areas -
Washtenaw County, Michigan
- Wellhead Protection Areas
Yellow areas indicate the 10-year travel
time for groundwater to be drawn to the
- FWS Wetlands & Riparian
For more information please visit our
website at:
- National_Wetlands_Inventory_2005_2
- CVTs-Bounds-Parcels
- Untitled Polygon
- ScioProps-Water Sources
- Loch Alpine Water
- Scio Water
- ☒ wells
- vacant
- TwpsWellsKey
- AAtpwProps-with Wells
- TwpsWellsKey
- Scio Twp
- Ann Arbor Twp
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- 931215 DNR mta-Plume+1000ft-fr
- 1986-2020 Plumes
- Dioxane Plumes
- 2021 Plumes**
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ppb



Search

Places

- ☐ MW-148-149-150.kmz
 - ☐ [MW-148sd](#)
 - Date ppb
 - 05/01/25 1.0
 - ☐ MW-148-149-150
 - ☐ TW-24 + TW-25
 - ☐ 2433 Blueberry Lane.kmz
 - ☒ [2021-2022-ScioSampling \(127\)](#)
 - 2021-2022 Scio Sampling
 - using Method 522 detection limit 0.12 ppb
 - ☒ Scio Sampling Key
 - ☒ dioxane found (29)
 - ☐ non-detect (98)
 - ☒ [2023-ScioSampling-byEGLE \(202\)](#)
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 - ☐ FY2024 1,4-Dioxane Sampling
 - ☐ FY2023 Sampling - OVERALL
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 - ☐ 2023-ND (165)
 - ☒ 2025 new 1st time hits+ppb.kmz
 - ☒ 2025 new 1st time hits+ppb
 - ☒ [2529 Thornapple Dr - 0.39 ppb](#)
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 - 3444 Robinwood Dr, Ann Arbor, MI 48103
 - ☒ [3574 Elizabeth Rd - 0.33 ppb](#)
 - 3574 Elizabeth Rd, Ann Arbor, MI 48103
 - ☒ [3601 Elizabeth Rd - 0.34 ppb](#)
 - 3601 Elizabeth Rd, Ann Arbor, MI 48103
 - ☒ [776 Rose Dr - 0.40 ppb](#)
 - 776 Rose Dr, Ann Arbor, MI 48103
 - ☒ [2025-plume ~0.12-4.0 ppb est](#)
 - SRSW estimate
 - ☐ 1/2 mile radius from prior hits - Scio Twp



Scio Sampling

hits > 0.12 ppb

nd < 0.12 ppb

EGLE Sampling

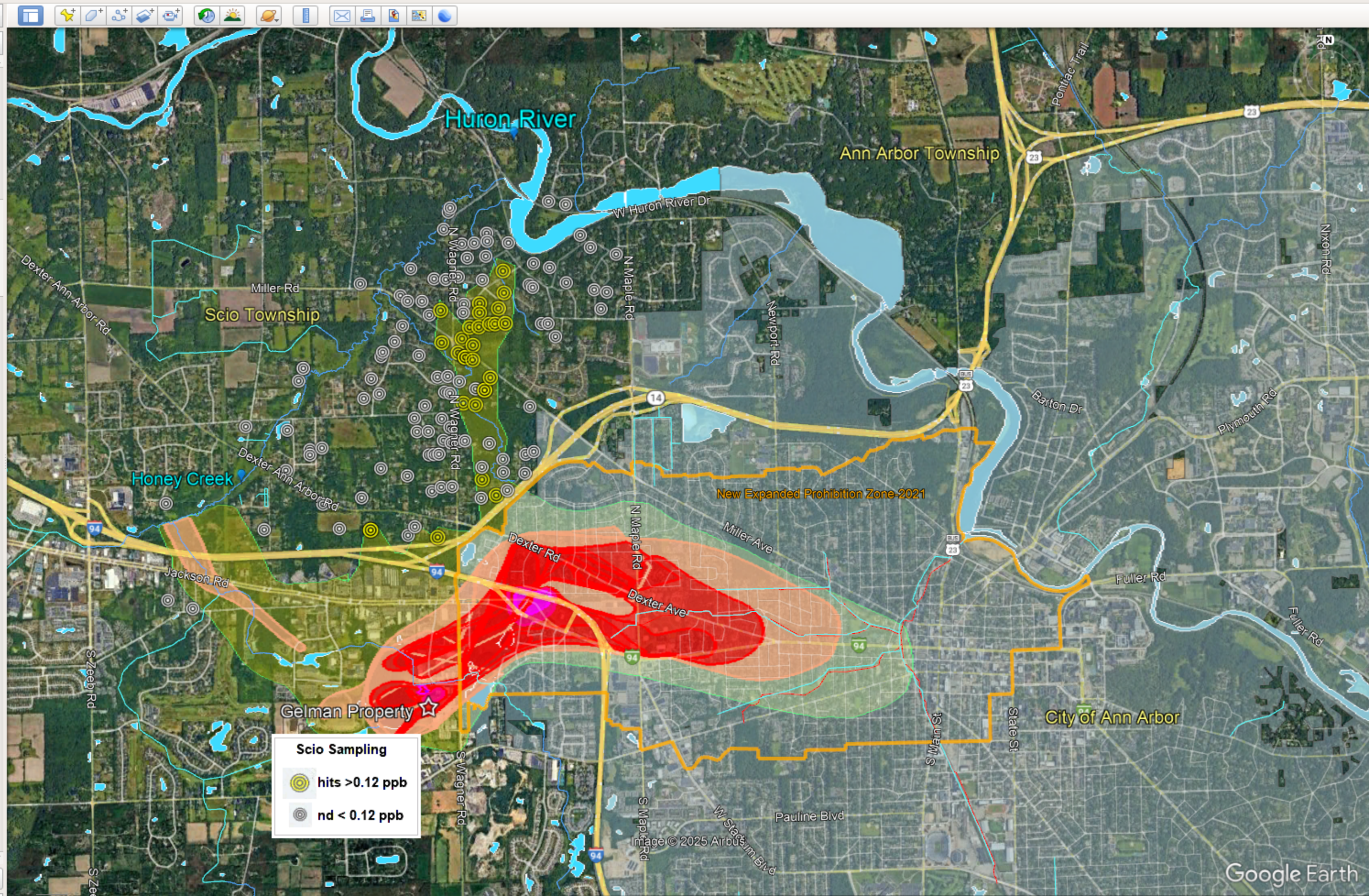
hits >= 0.50 ppb

nd < 0.50 ppb

Search

Places

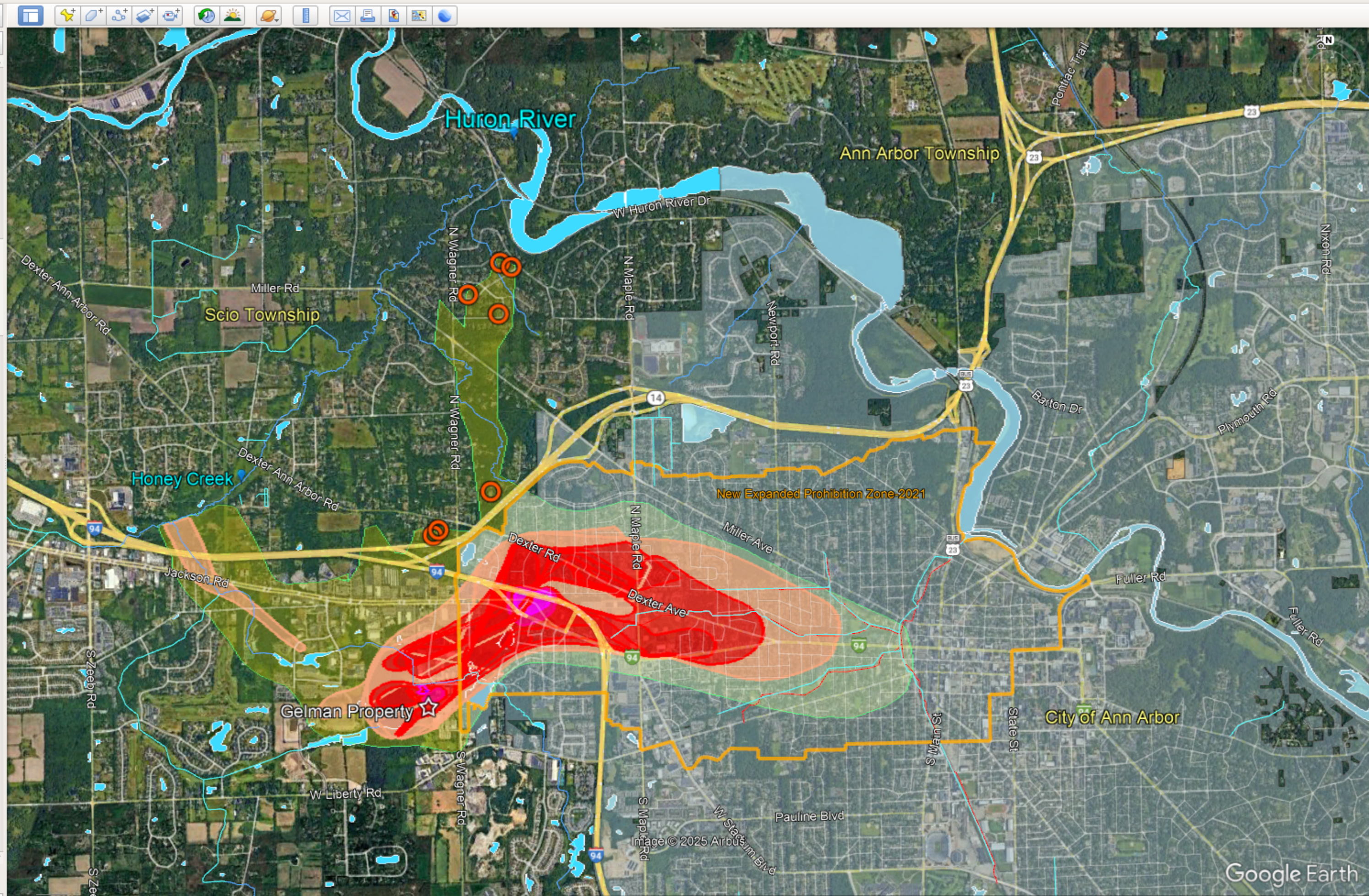
- +2021-2025 New Samplina.kmz
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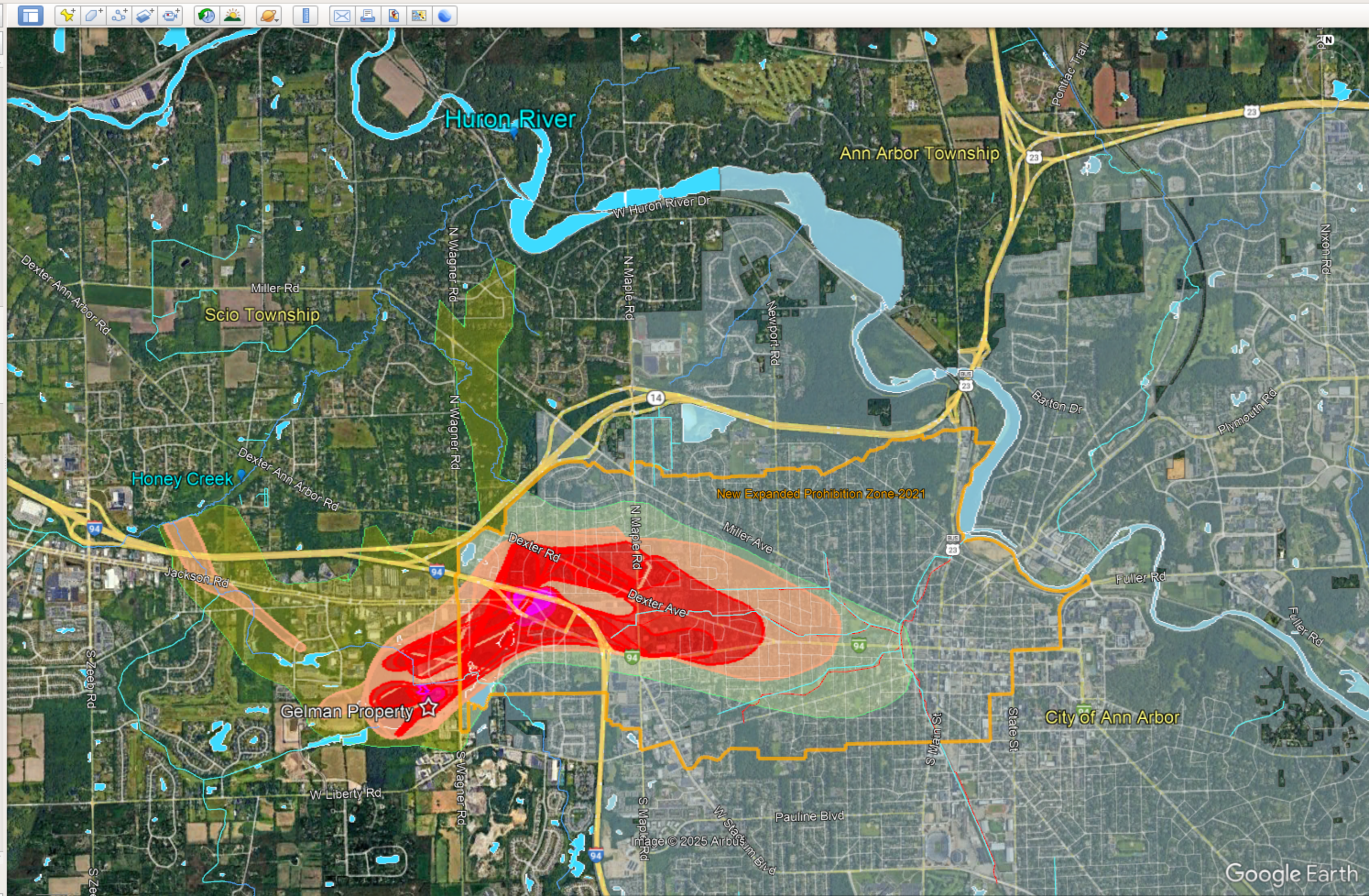
- ☐ MW-148-149-150
- ☐ TW-24 + TW-25
- ☐ 2433 Blueberry Lane.kmz
- ☐ 2021-2022-ScioSampling (127)
 - 2021-2022 Scio Sampling
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 - 3574 Elizabeth Rd, Ann Arbor, MI 48103
 - ☒ 3601 Elizabeth Rd - 0.34 ppb
 - 3601 Elizabeth Rd, Ann Arbor, MI 48103
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 - 776 Rose Dr, Ann Arbor, MI 48103
 - ☒ 2025-plume ~0.12-4.0 ppb est
 - SRSW estimate
- ☐ 1/2 mile radius from prior hits - Scio Twp
- ☐ 1/2 mile radius from prior hits - AA Twp
- ☐ 1000ft for Scio hits



Search

Places

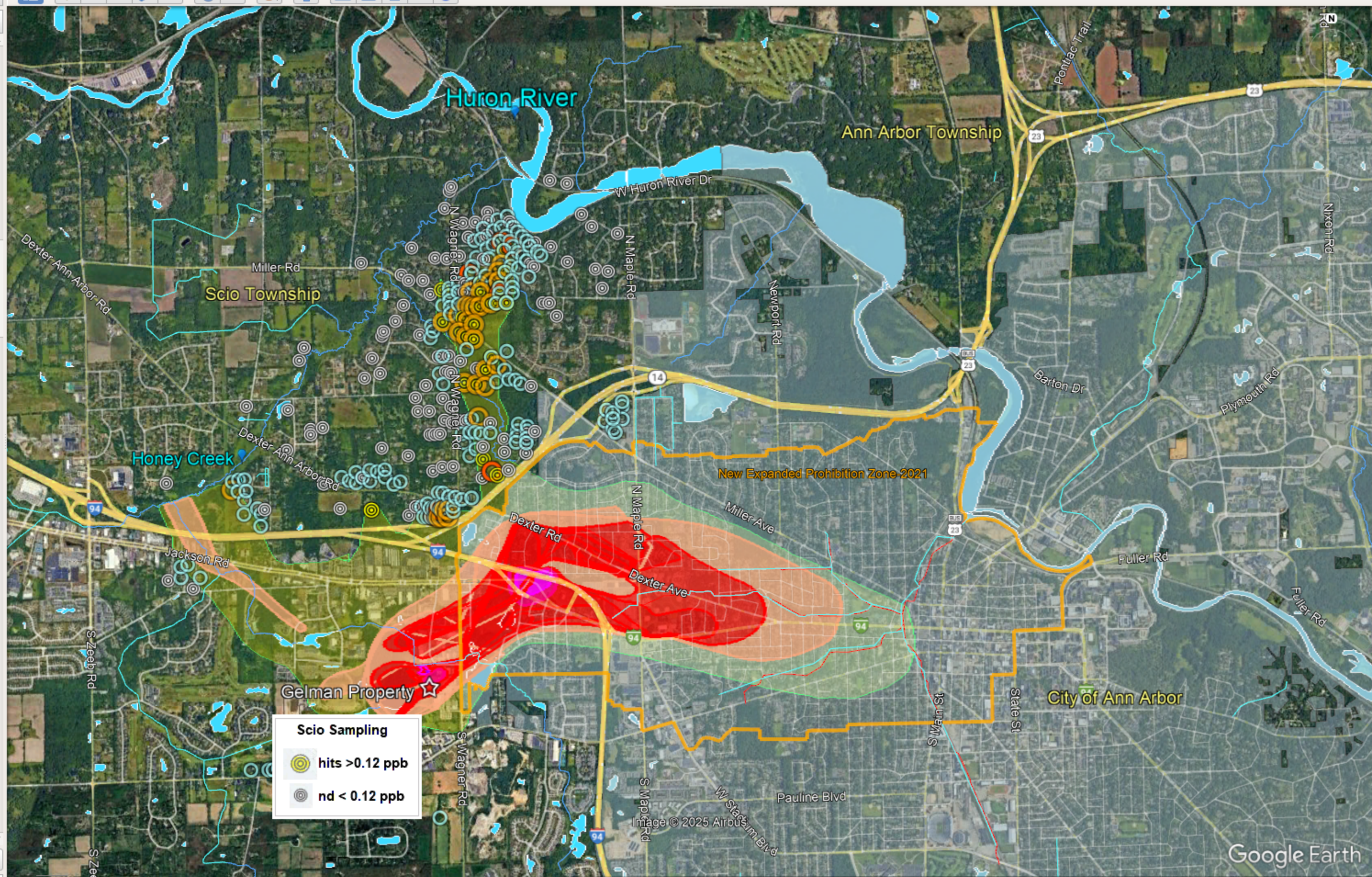
- ☐ ☒ [3574 Elizabeth Rd - 0.33 ppb](#)
3574 Elizabeth Rd, Ann Arbor, MI 48103
- ☐ ☒ [3601 Elizabeth Rd - 0.34 ppb](#)
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- ☐ ☐ 1000ft for Scio hits
- ☐ ☐ 1000ft for AAtpw
- ☐ ☐ 1000ft-from well hits
- ☐ ☐ Craig-Deerfield elevation
- ☐ ☐ Xsects-paths+links
- ☐ ☐ EGLE-Rockworks-KML-layers
- ☐ ☐ Boreholes-fromDEQ-Rockworks
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- ☐ ☒ **2021-Mashup.kmz**
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1986-2021
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Lakes, Streams, Drains, Recharge Areas, etc
in Washtenaw County Michigan
- ☐ ☒ Water-Feature Names
- ☐ ☒ Lakes in Washtenaw County
- ☐ ☒ [Streams](#)
Streams in four township area
- ☐ ☒ [County Drains](#)
County Drains in four township area



Search

Places

- using method 8260 SIM detection limit 0.50 ppb
- ☐ 2024 Dioxane Sampling Map
 - ☐ FY2024 1,4-Dioxane Sampling
 - ☐ FY2023 Sampling - OVERALL
 - ☐ EGLE Sampling Key
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 - ☐ All_Bore_Locations
 - ☒ SB SG-X Locations-Rockworks2022
 - from Rockworks data exported 2/14/2022
 - ☐ 2020-2023 Surface Water Sampling



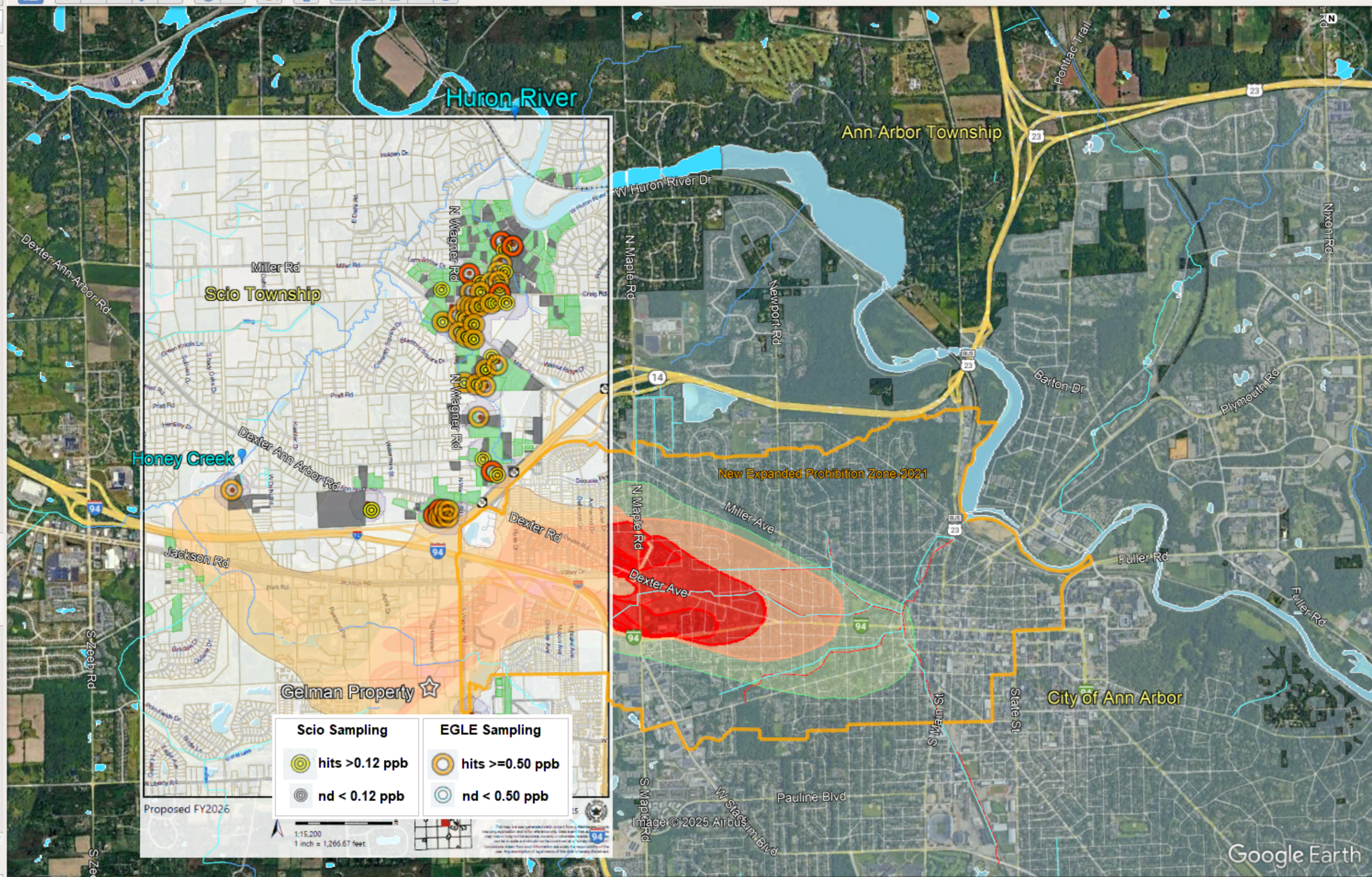
Scio Sampling

- hits > 0.12 ppb
- nd < 0.12 ppb

Search

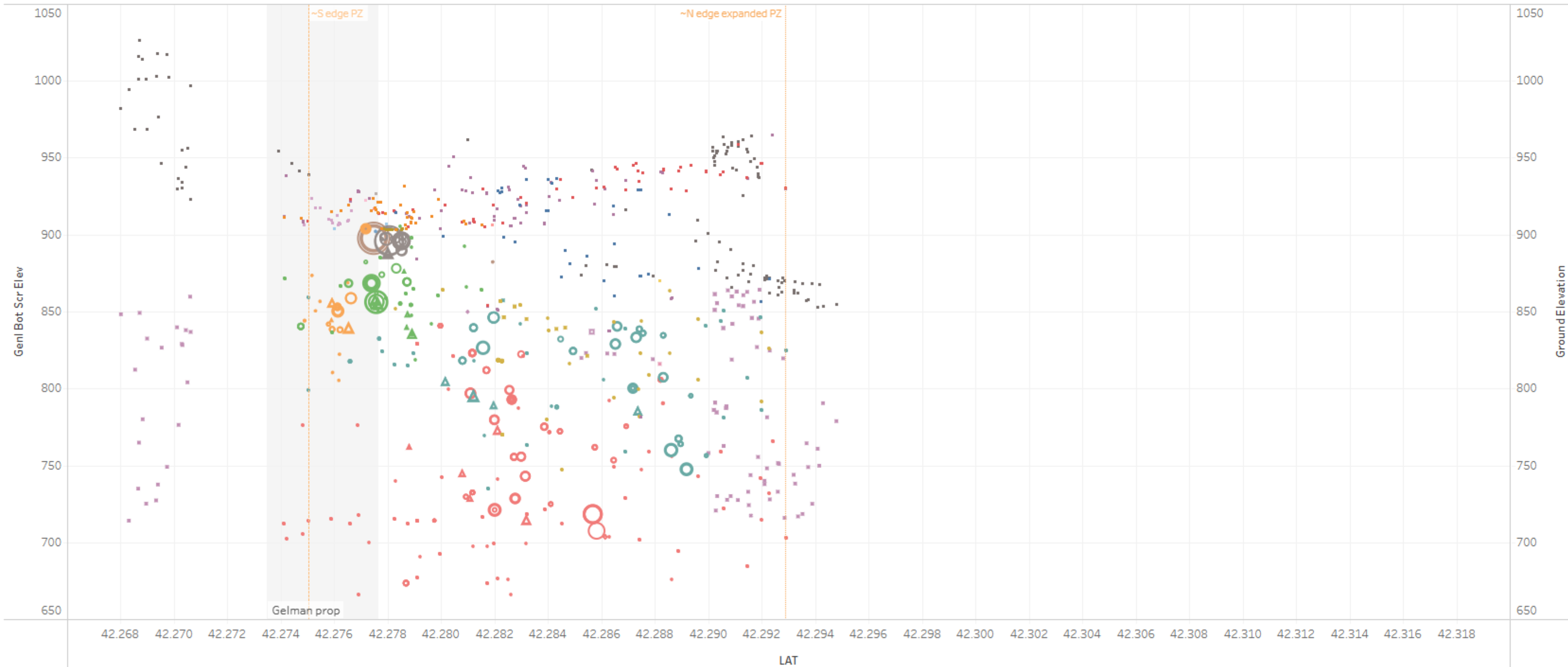
Places

- ☐ Horizontal-Pipeline-Wells.kmz
- ☐ Horizontal_Pipeline-PLSVersion
- ☐ Horizontal-Pipeline-AsBuilt
- ☐ Horizontal-Pipeline-AsBuilt-Maps
- ☒ More Well Locations
- ☐ Missing Locations
- ☐ [1995 Gelman database](#)
 - Readings from 1995 Gelman dioxane sampling database
 - ☐ 1995DatabaseKey
 - ☐ [1+ ppb](#)
 - 1995 database readings higher than non-detect (1+ ppb)
 - ☐ [nd in 1995 db](#)
 - non-detect 1995 database readings
- ☐ ExtractionWells-Tables-NameOrder-2021
- ☒ DEQ-EGLE sampling
 - ☒ [FY2026 Proposal_Map](#)
 - ☐ FY2026-well sampling-fromZoom
 - ☐ FY2026-well sampling
 - ☐ Res Well Sampling Map
 - ☐ RoseDrAreaRes Wells-map
 - ☐ 20141208-SamplingMap
 - ☐ [DW Well Monitoring](#)
 - ☐ DrinkingWaterWellSampling
 - ☐ DrinkingWaterWellSampling
 - ☐ [DEQ Dioxane Sampling 1984-2012](#)
 - address locations of dioxane samples - MDEQ 1984-2012 (not the wellhead)
 - ☐ ScioProps-closeby
 - ☐ [StoweSt-DexterRd-NWagner-WagnerWoc](#)
 - | Created with <http://batchgeo.com>
 - ☐ [RoseDr-701-954](#)
 - | Created with <http://batchgeo.com>
- ☐ RL-shallow wells
- ☐ Bicknell-shallow well plan
- ☐ USGS_HoneyCreekGroundwaterStudy.kmz
- ☐ OLD MW-1_2_3_4_5
- ☐ SIMW1-7
- ☐ GelmanSite-SupplyWells.kmz
- ☐ 19870330-KeckXsect-wells.kmz
- ☐ MissingScioXY
- ☐ AA City Supply Wells-Steere Farm
- ☐ Soils
- ☐ Misc Maps etc - 80MB
- ☐ Misc Maps etc
 - ☐ [+ Google Maps Overlays](#)



ppb map ppb/date ppb/date (2) ppb / Elevation S-N ppb / Elevation W-E simple map

ppb / Ground & Screen Elevation S-N



Well Types

- ▲ Extraction Wells
- ◆ Miscellaneous Wells
- Monitoring Wells
- ✕ Not Applicable
- Residential Wells
- + Surface Water
- ◀ Treatment System

Aquifer

- B2
- C2
- C3
- D0
- D2
- E
- Marshy
- Not Applicable
- Not Determined
- SH
- Surface Water
- SW

Scr Elev Range

(All)

Well Name

(All)

Year

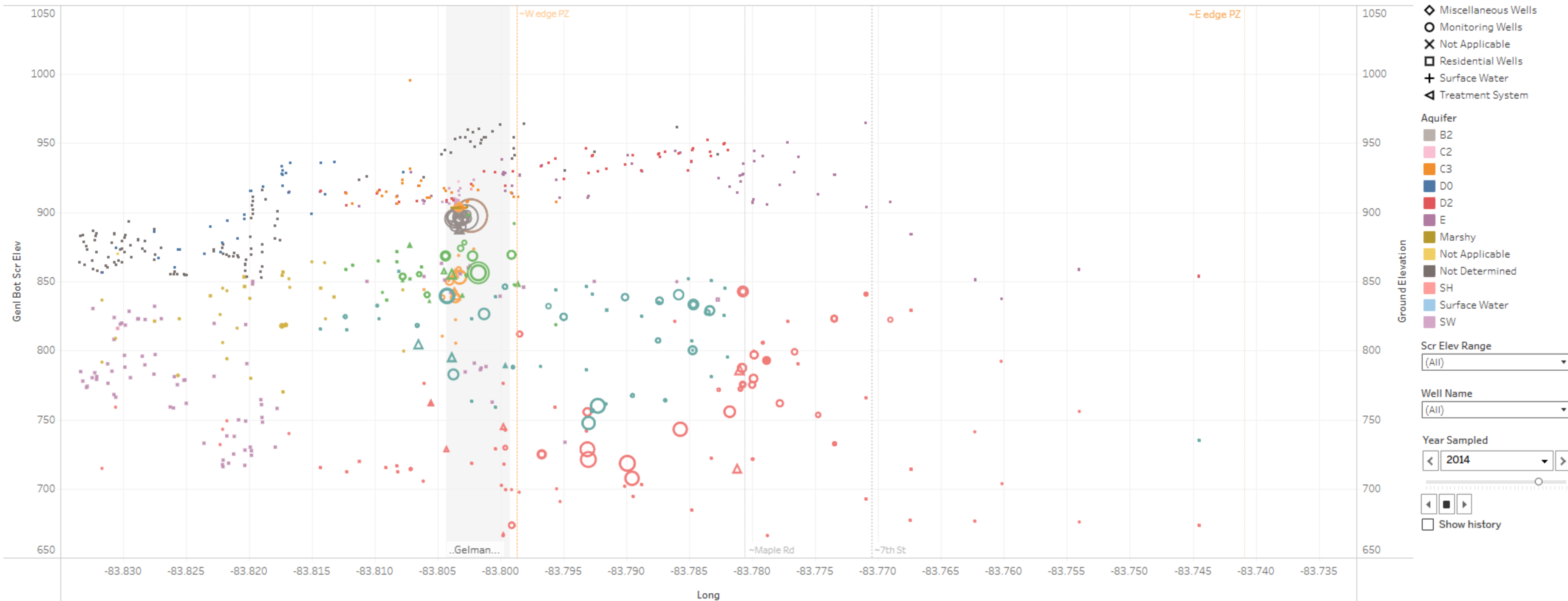
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Legend icons: a square with a dot, a square with a cross, and a square with a plus sign.

Show history

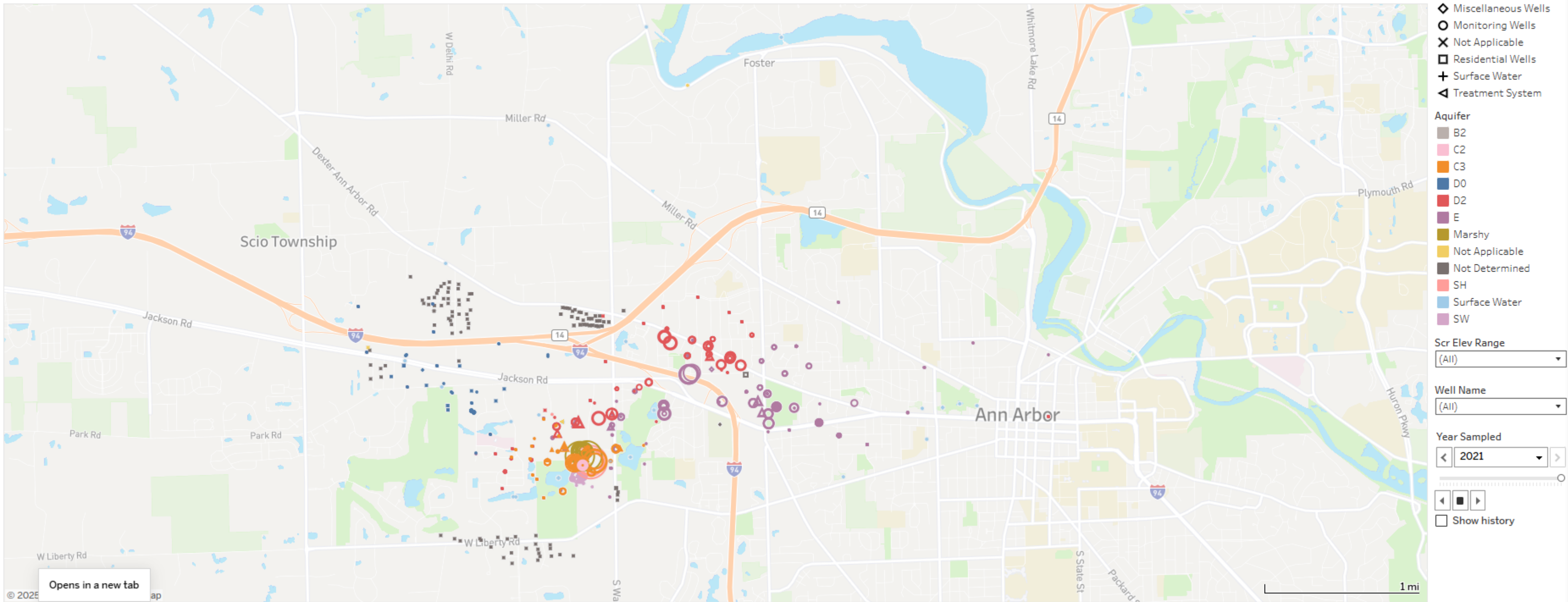
ppb map ppb/date ppb/date (2) ppb / Elevation S-N ppb / Elevation W-E simple map

ppb / Ground & Screen Elevation W-E



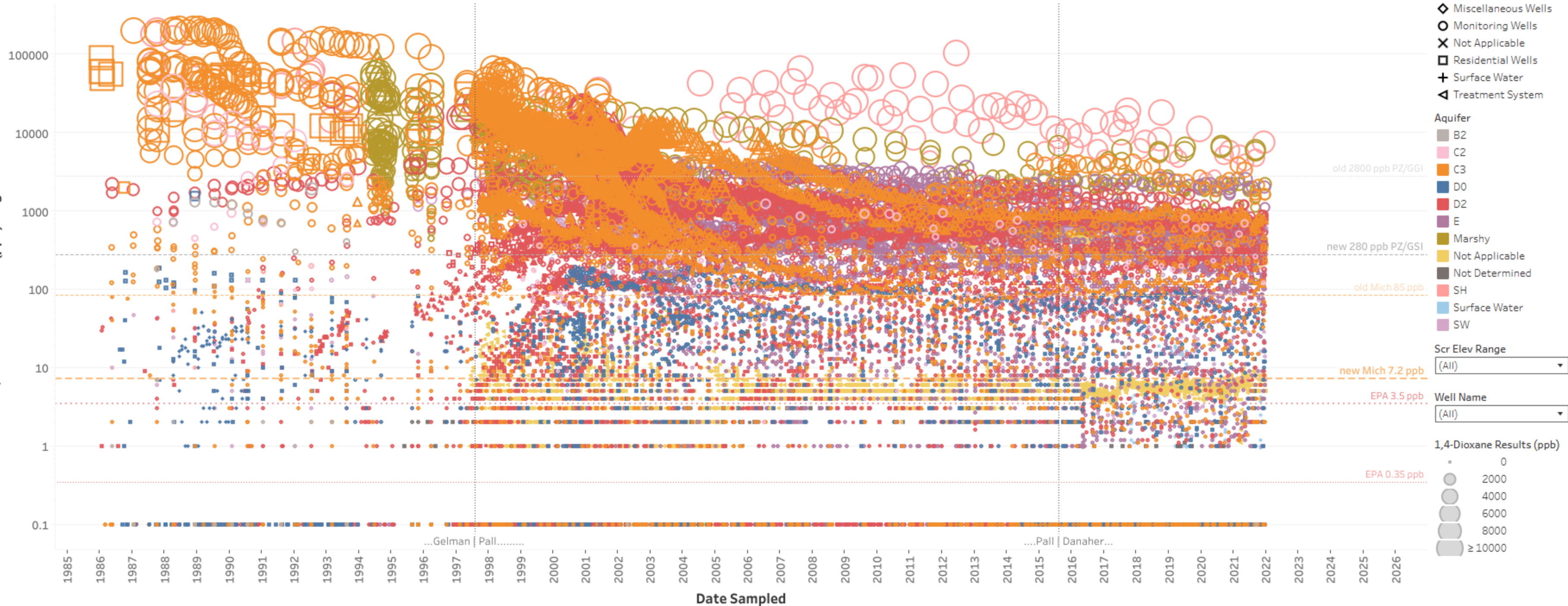
ppb map ppb/date ppb/date (2) ppb / Elevation S-N ppb / Elevation W-E simple map

ppb map by date



ppb by date

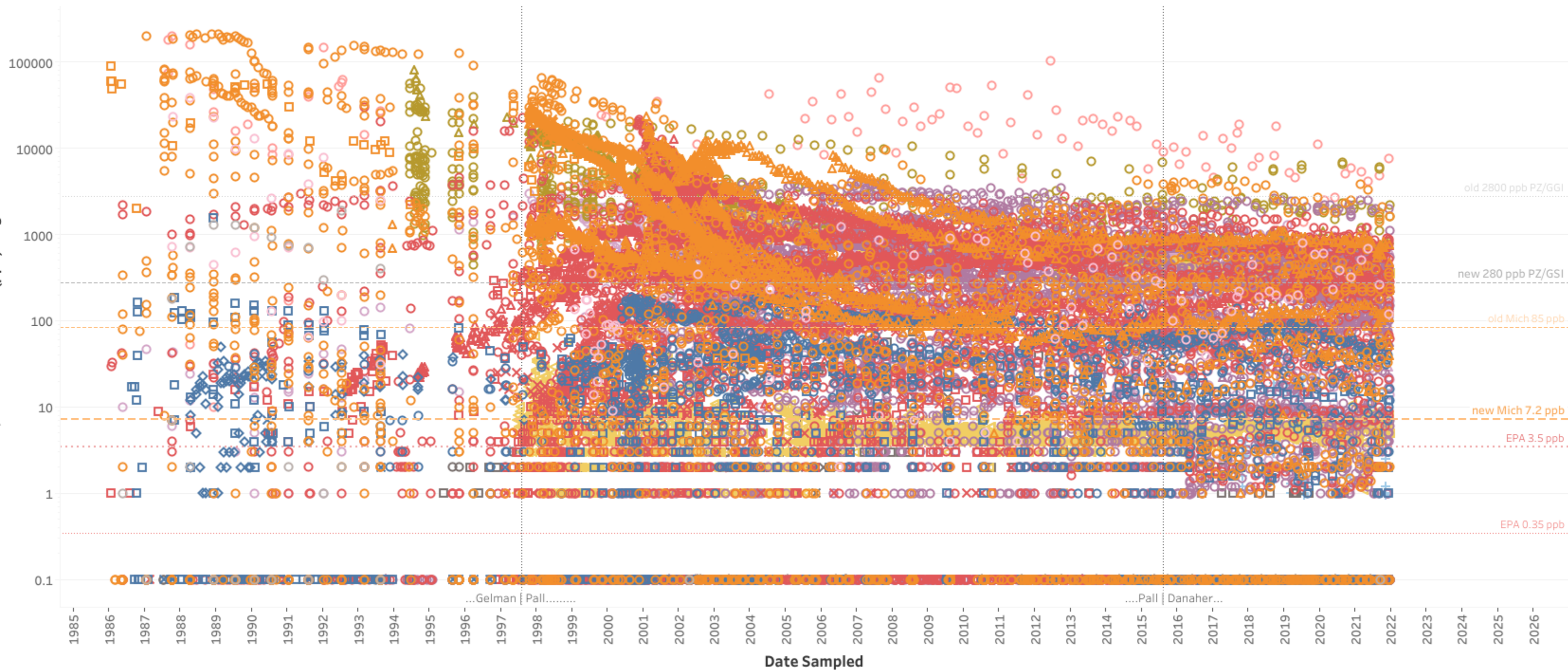
1,4-Dioxane Results (ppb) - log scale



ppb map ppb/date ppb/date (2) ppb / Elevation S-N ppb / Elevation W-E simple map

ppb by date

1,4-Dioxane Results (ppb) - log scale



Well Types

- ▲ Extraction Wells
- ◆ Miscellaneous Wells
- Monitoring Wells
- ✕ Not Applicable
- Residential Wells
- + Surface Water
- ◀ Treatment System

Aquifer

- B2
- C2
- C3
- D0
- D2
- E
- Marshy
- Not Applicable
- Not Determined
- SH
- Surface Water
- SW

Scr Elev Range

(All)

Well Name

(All)

Last Date Rd

8/18/1993 12/30/2021