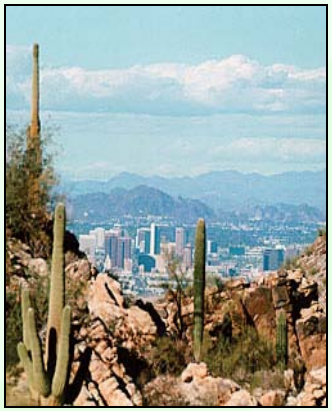
ENVIRONMENTAL PROGRAMS

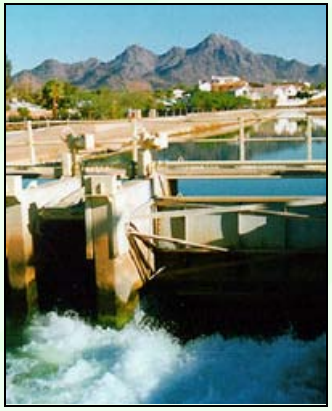
MARICOPA ASSOCIATION of GOVERNMENTS

Update on MAG Five Percent Plan for PM-10

MAG Management Committee

May 11, 2011





Prevention Activities Underway

- **City of Phoenix Dust Reduction Task Force – Short term goals – April 15, 2011 Long term goals – May 15, 2011**
- **Maricopa County upgrades to provide "near real time" monitor data to prevent exceedances – May 31, 2011**
- **MAG PM-10 Prevention Video – May 15, 2011**
- **Network established to prevent PM-10 exceedances region wide**
- **Maricopa County is coordinating with MAG member agencies to avoid duplication**
- **MAG has developed a Rapid Response Action Plan Template and Tool Kit**
- **MAG held a second workshop with local governments, Maricopa County, and ADEQ – April 21, 2011**
  - Leadership from city management needed to engage all necessary departments in the Rapid Response Action Plan
- **MAG will hold a third workshop on May 26, 2011**
- **ADEQ is sending out the Maricopa County Dust Control Action Forecast 5 days in advance**

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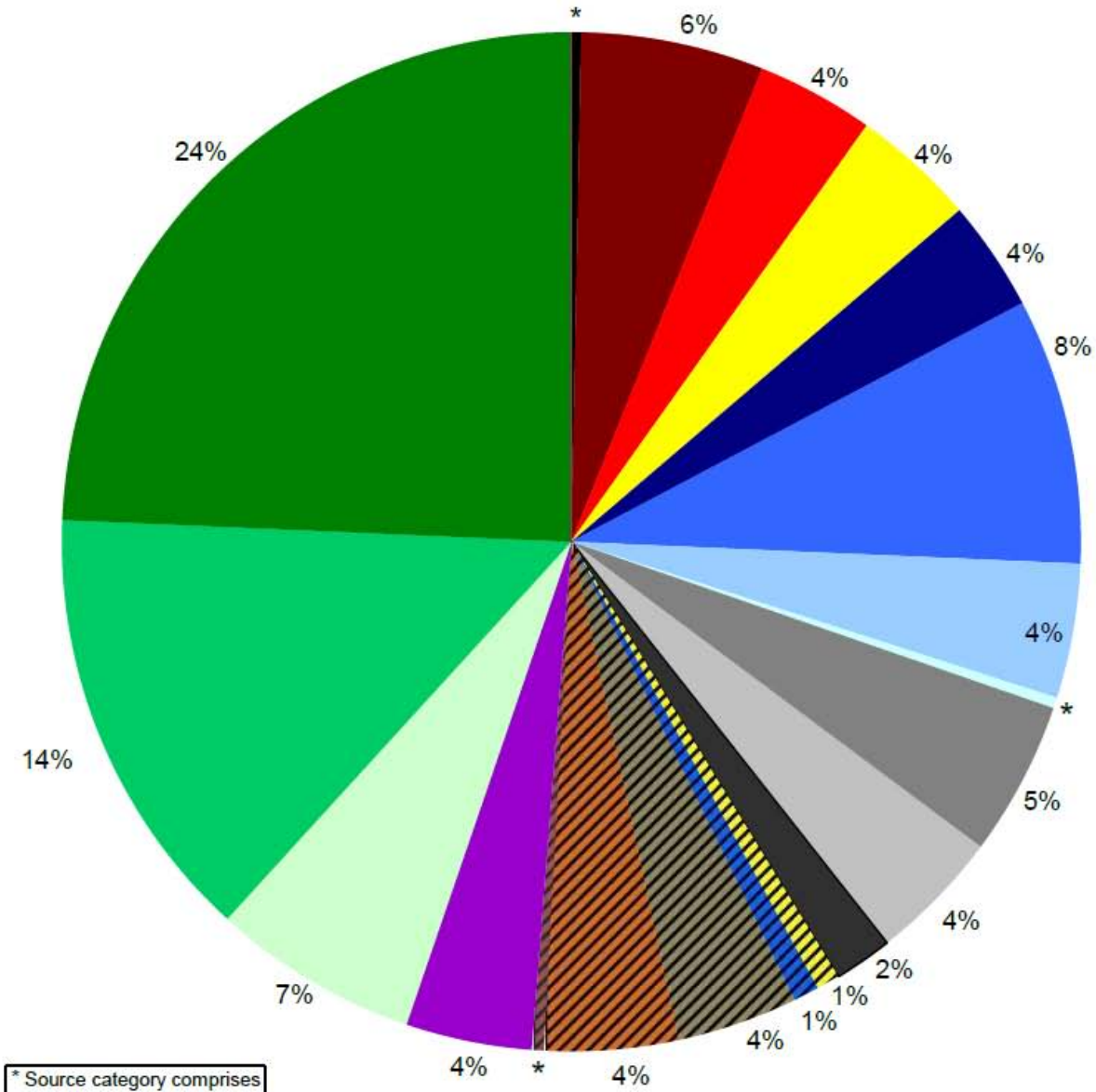
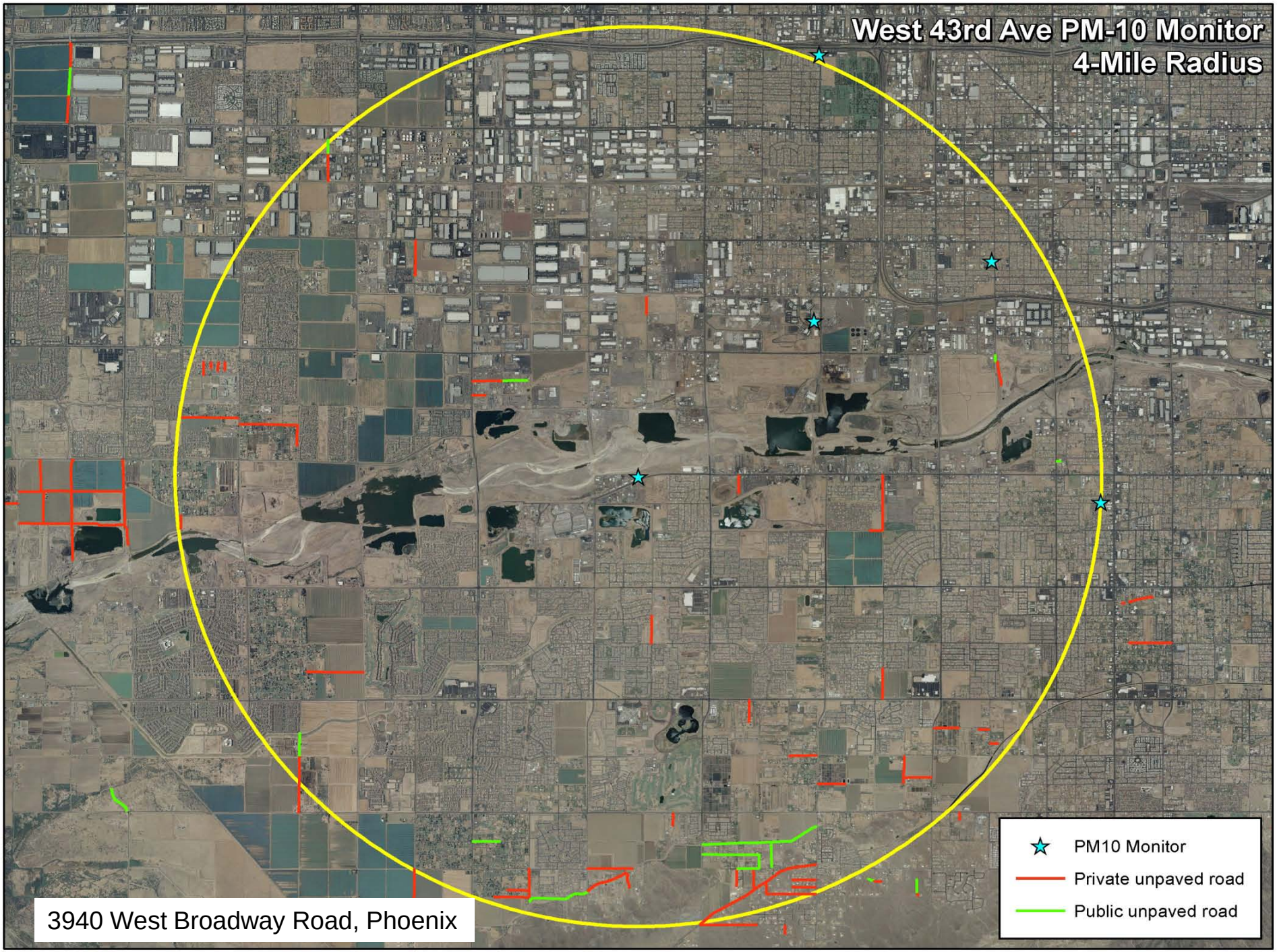
REVISED 2008 PM_{10} Emissions Inventory (March 2011)

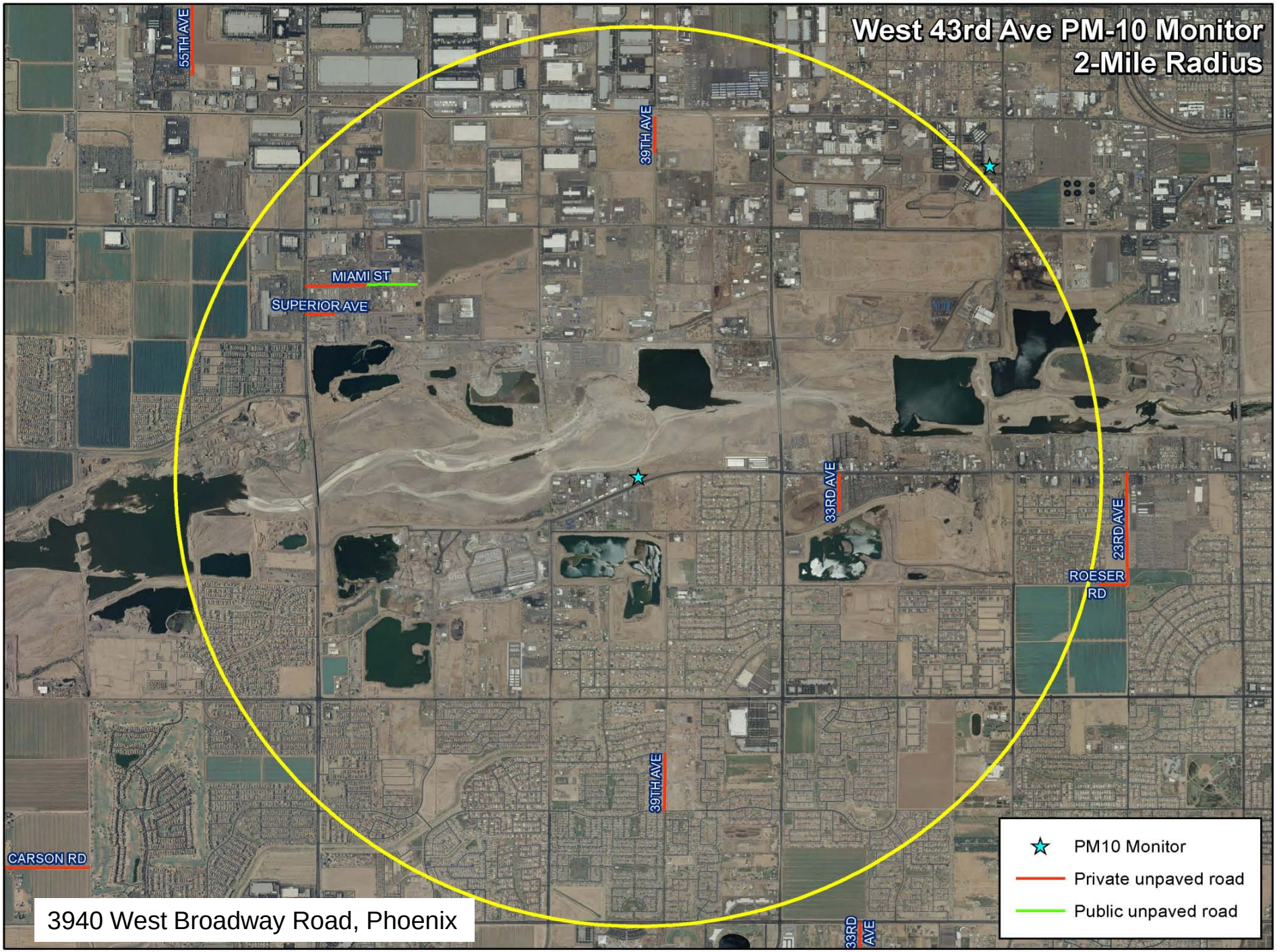
PM_{10} NAA Total = 48,148 tons/yr

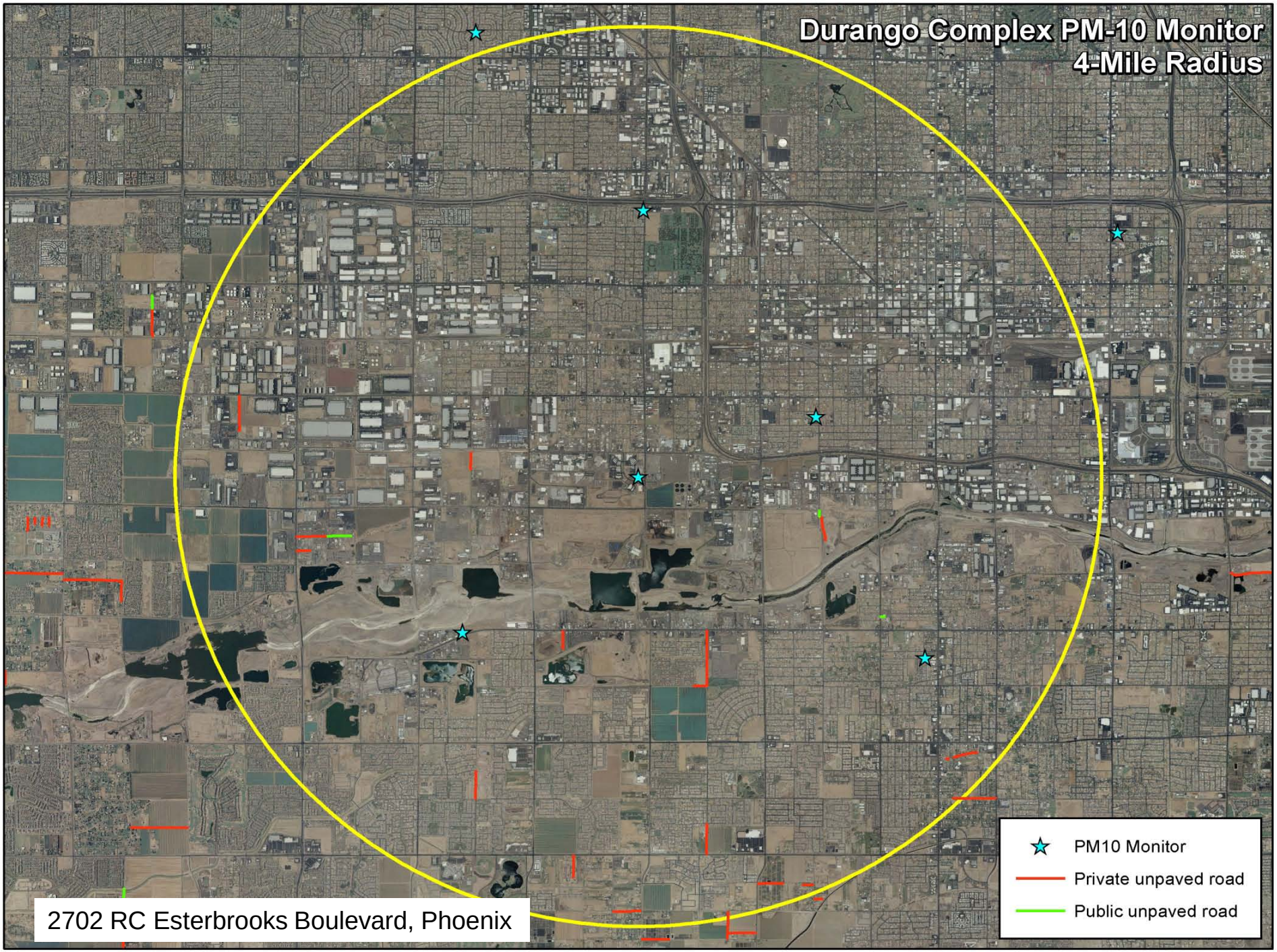


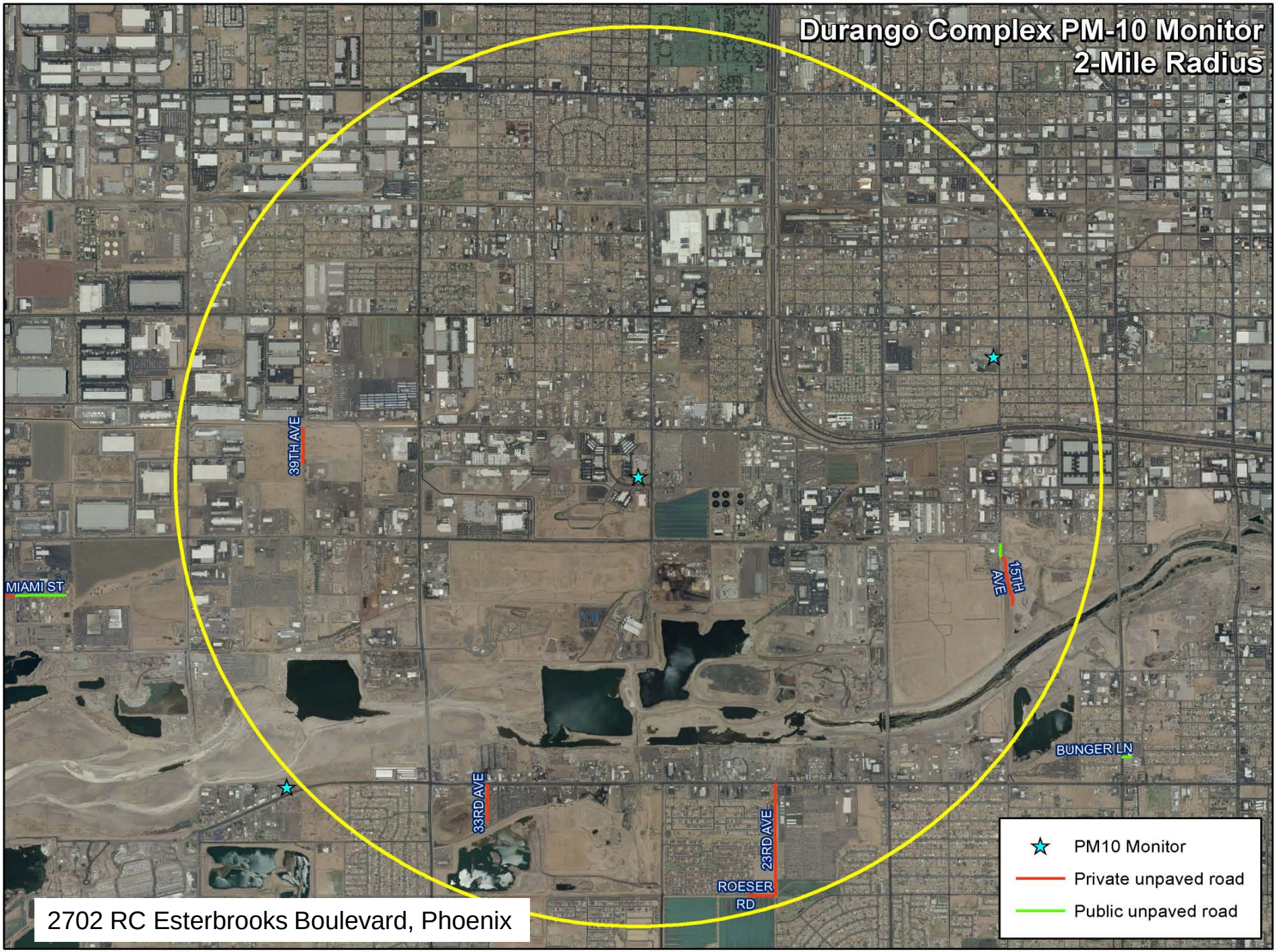
Source Categories	%
Major stationary point sources	(<0.5%)
All other industrial processes	(6%)
Fuel combustion and fires	(4%)
Agricultural tilling/harvesting	(4%)
Construction, residential	(4%)
Construction, commercial	(8%)
Construction, road	(4%)
Other earthmvg: trenching, weed control	(<0.5%)
Travel on unpaved parking lots	(5%)
Offroad recreational vehicles fugitive dust	(4%)
Leaf blowers fugitive dust	(2%)
Windblown: agricultural land	(1%)
Windblown: developing land	(1%)
Windblown: vacant land	(4%)
Windblown: open areas	(4%)
Windblown: S&G, landfills, test tracks	(<0.5%)
Nonroad mobile sources	(4%)
Vehicle exhaust, tire wear, brake wear	(7%)
Paved road fugitive dust, including trackout	(14%)
Unpaved road fugitive dust	(24%)

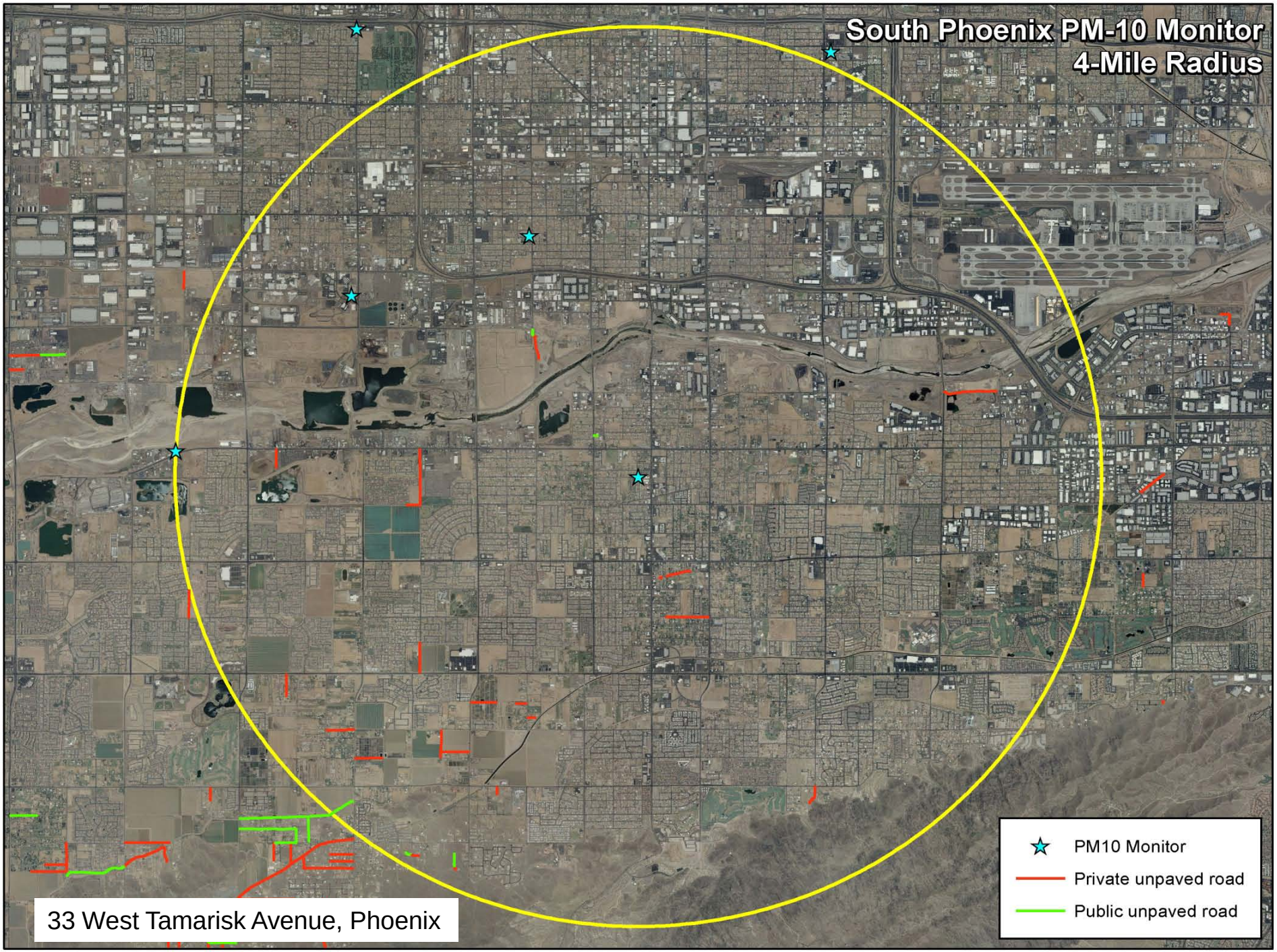
* Source category comprises less than 0.5% of total.

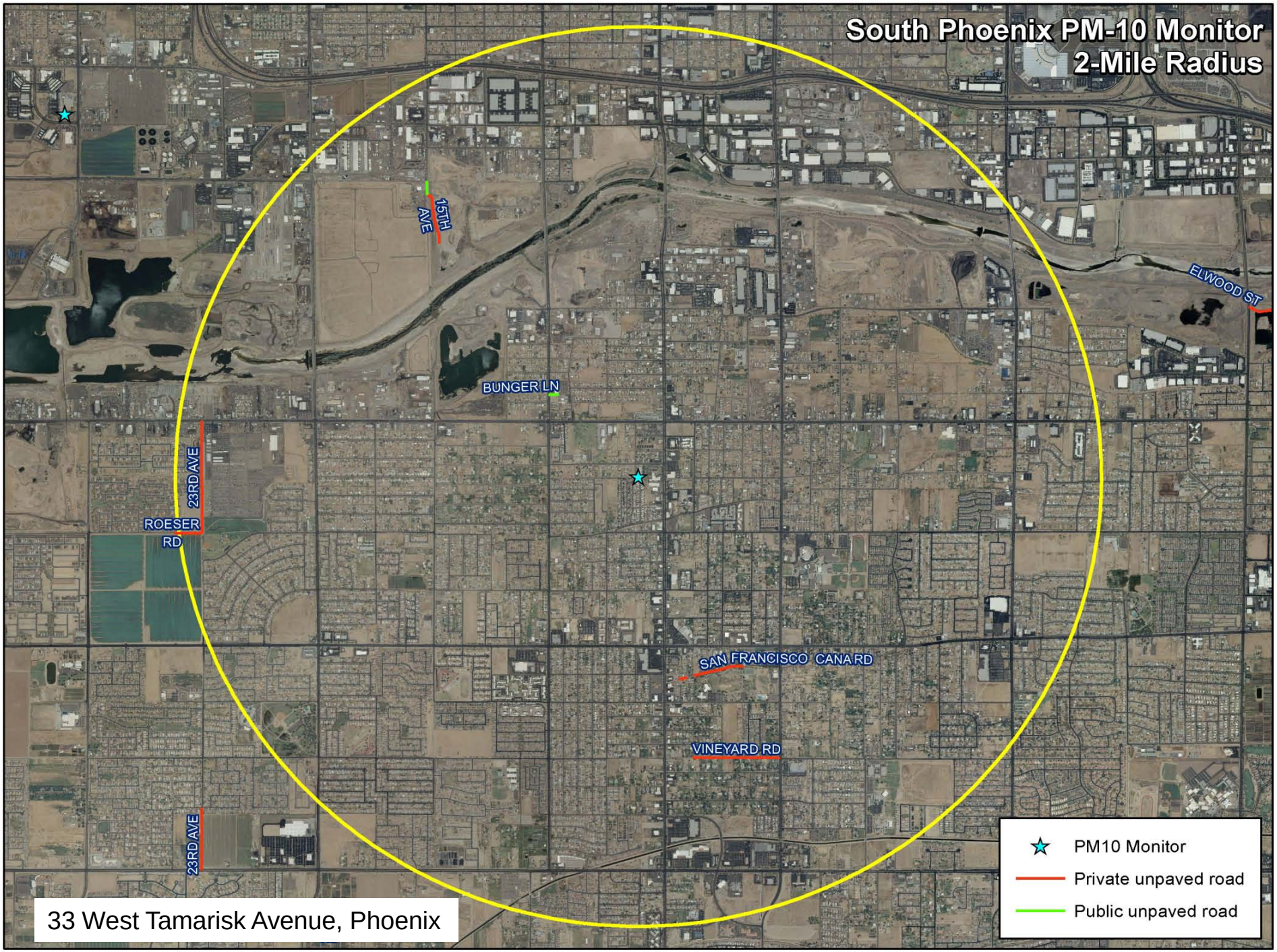

West 43rd Ave PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
3940 West Broadway Road, Phoenix


West 43rd Ave PM-10 Monitor
2-Mile Radius
55TH AVE
39TH AVE
MIAMI ST
SUPERIOR AVE
33RD AVE
23RD AVE
ROESER RD
39TH AVE
CARSON RD
33RD AVE
PM10 Monitor
Private unpaved road
Public unpaved road
3940 West Broadway Road, Phoenix

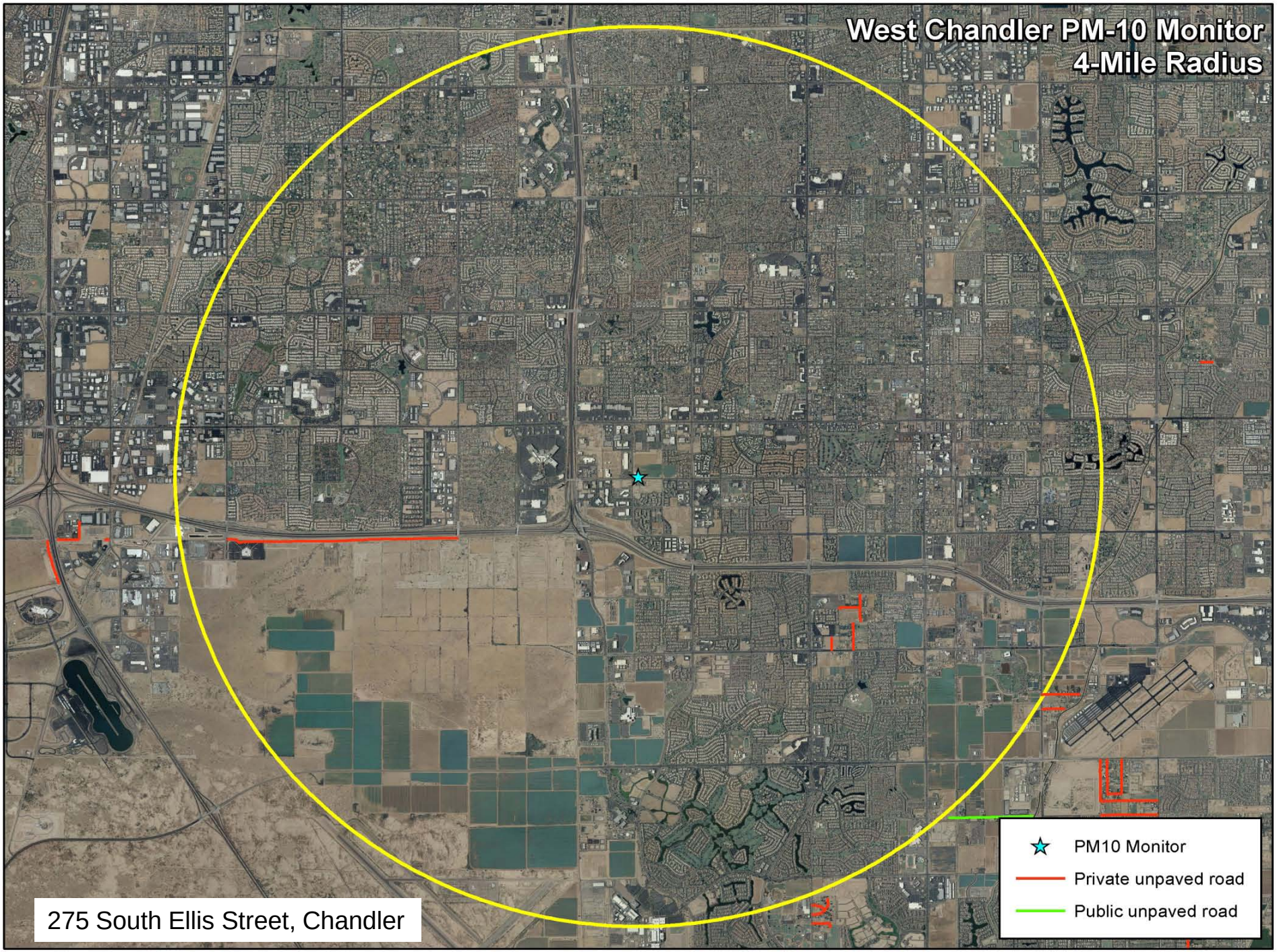

Durango Complex PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
2702 RC Esterbrooks Boulevard, Phoenix

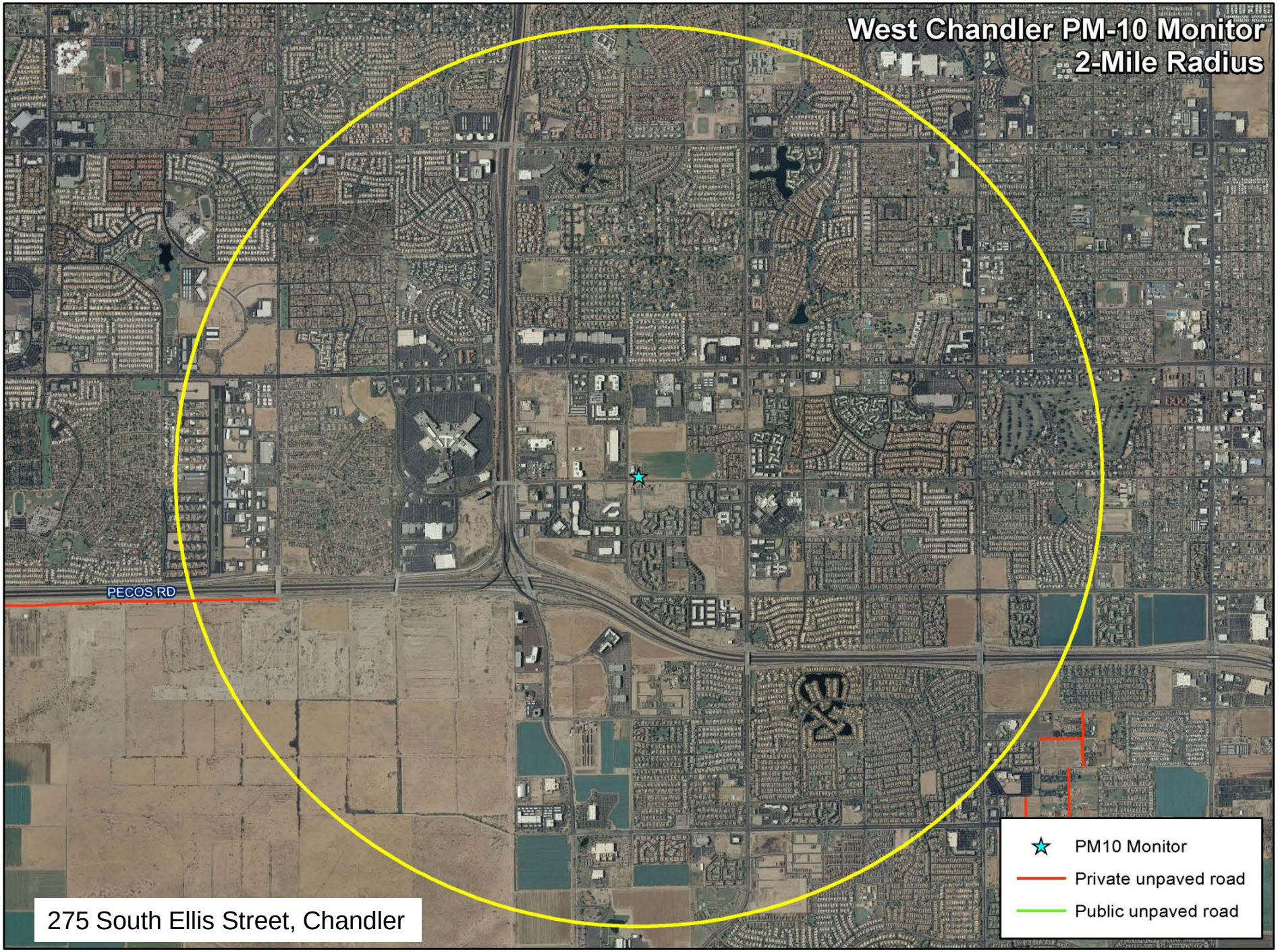

Durango Complex PM-10 Monitor
2-Mile Radius
39TH AVE
MIAMI ST
15TH AVE
BUNGER LN
33RD AVE
23RD AVE
ROESER RD
PM10 Monitor
Private unpaved road
Public unpaved road
2702 RC Esterbrooks Boulevard, Phoenix

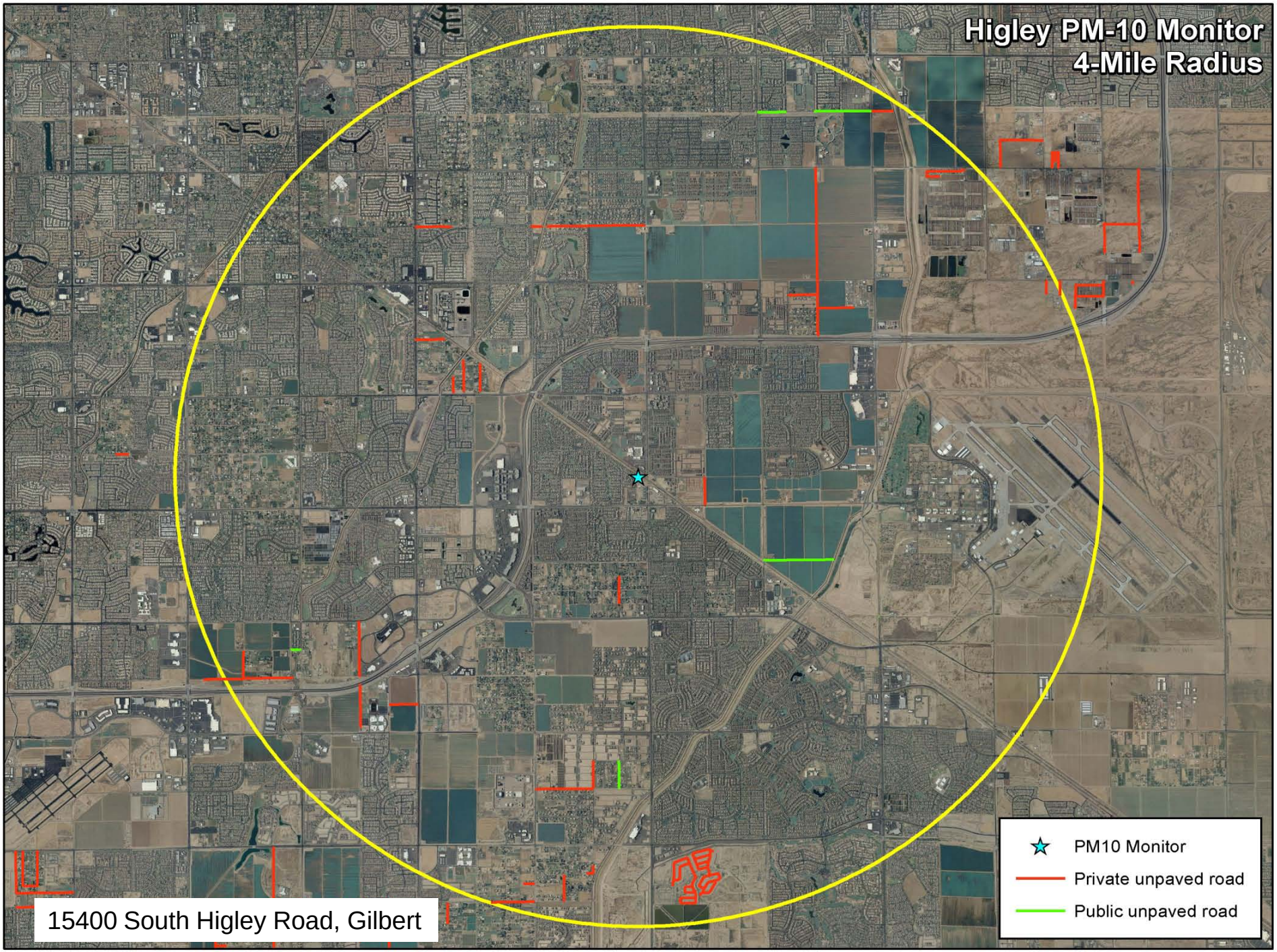

South Phoenix PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
33 West Tamarisk Avenue, Phoenix

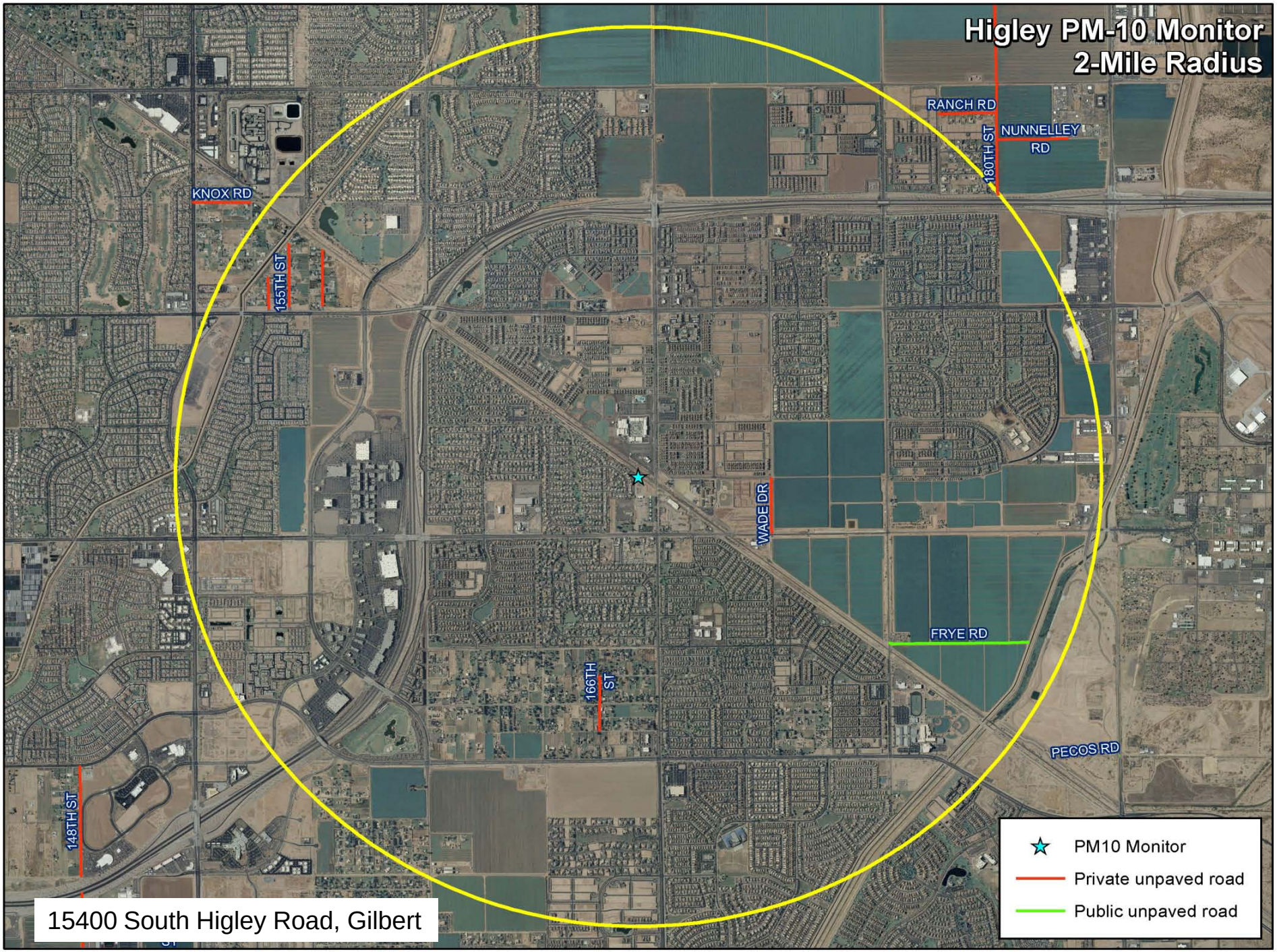


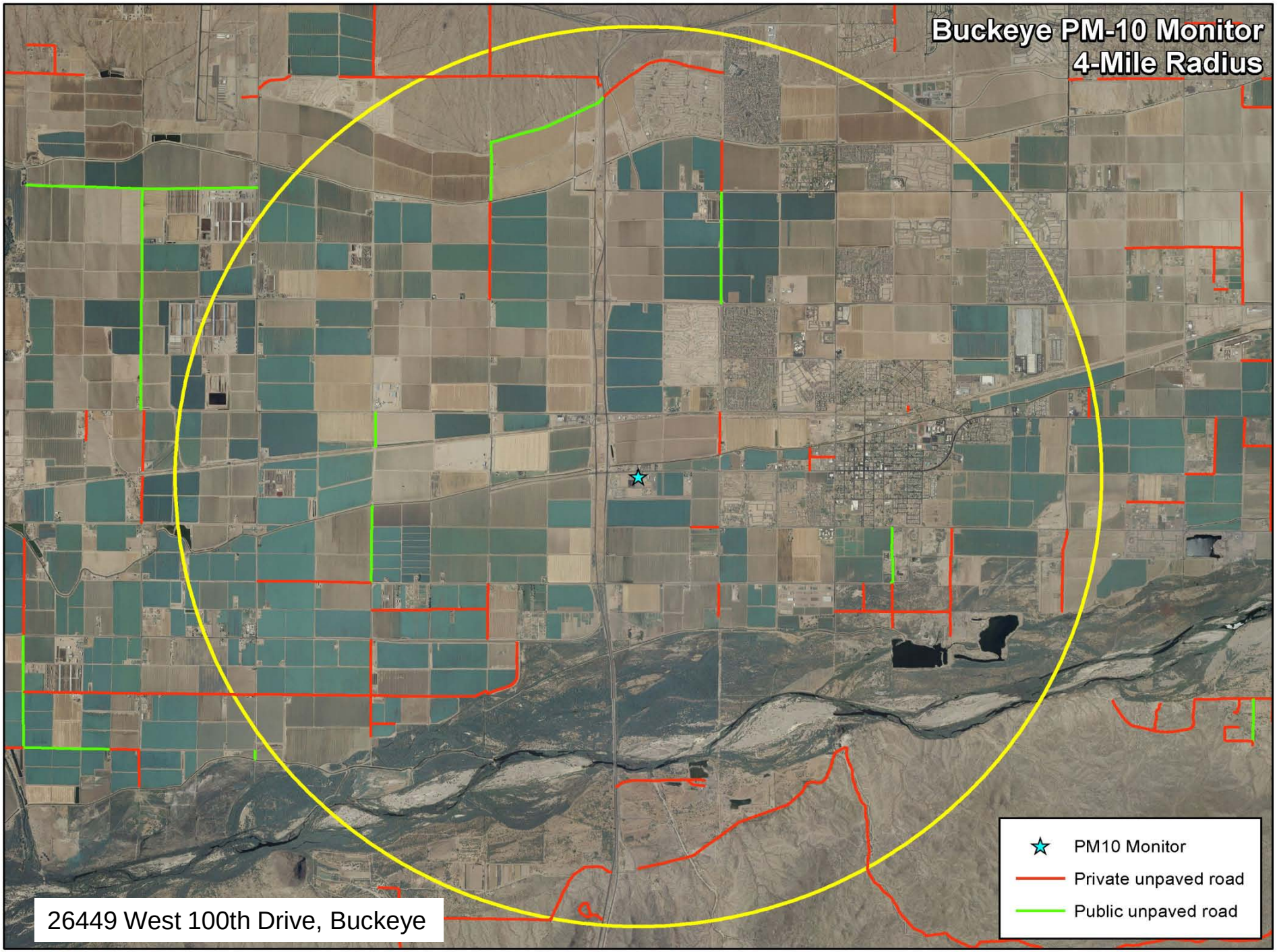
33 West Tamarisk Avenue, Phoenix

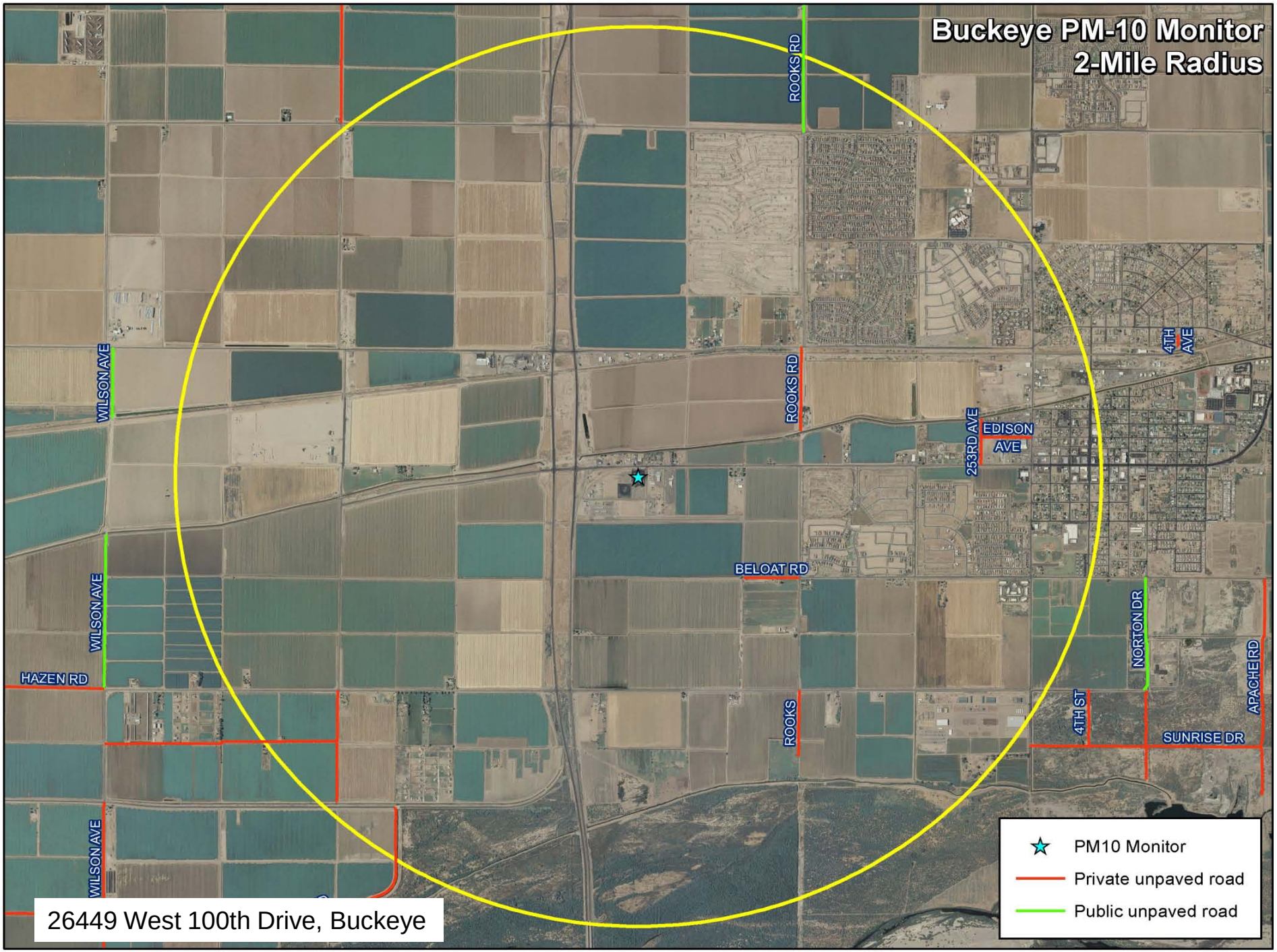

West Chandler PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
275 South Ellis Street, Chandler

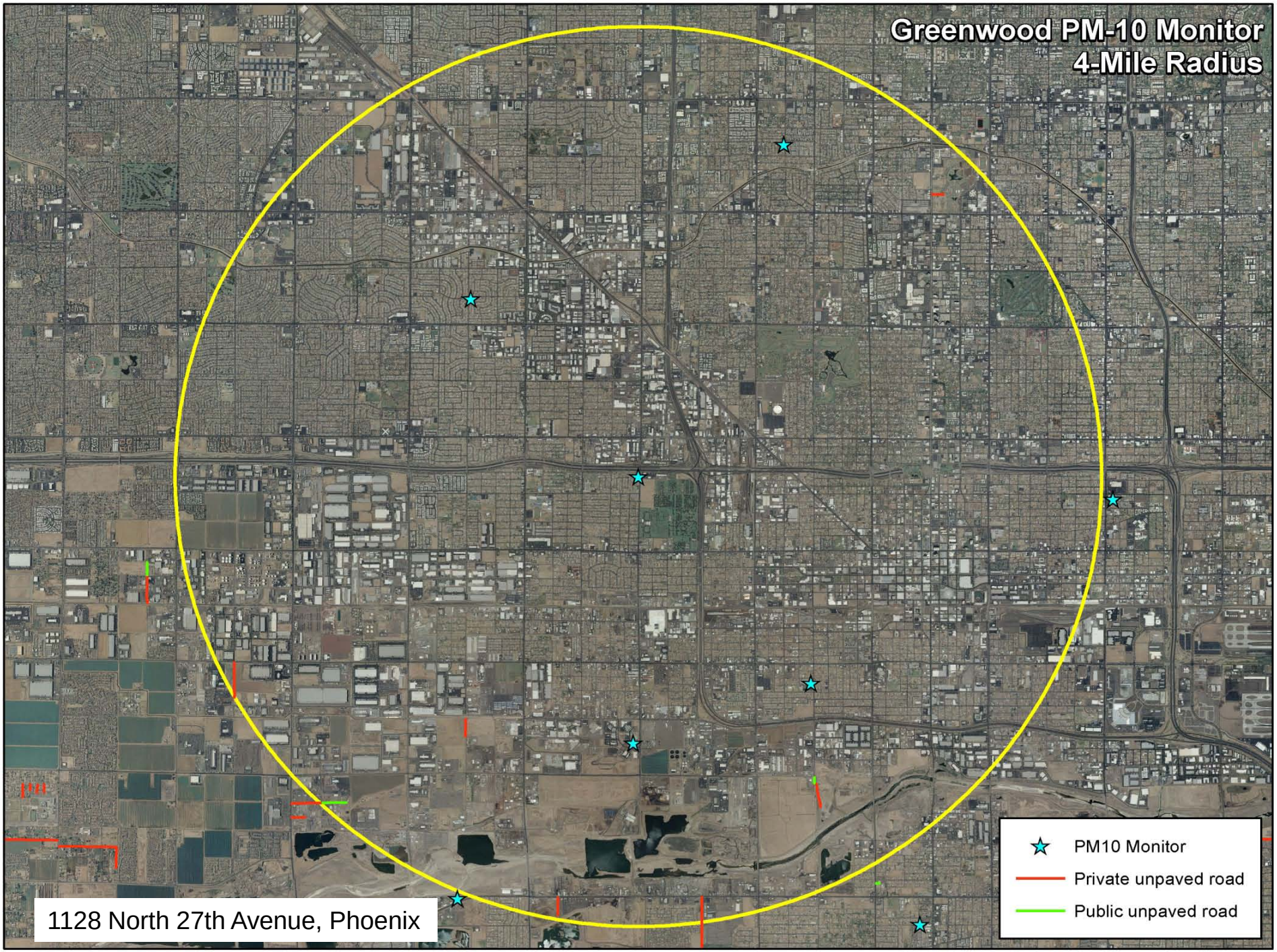

West Chandler PM-10 Monitor
2-Mile Radius
PECOS RD
PM10 Monitor
Private unpaved road
Public unpaved road
275 South Ellis Street, Chandler

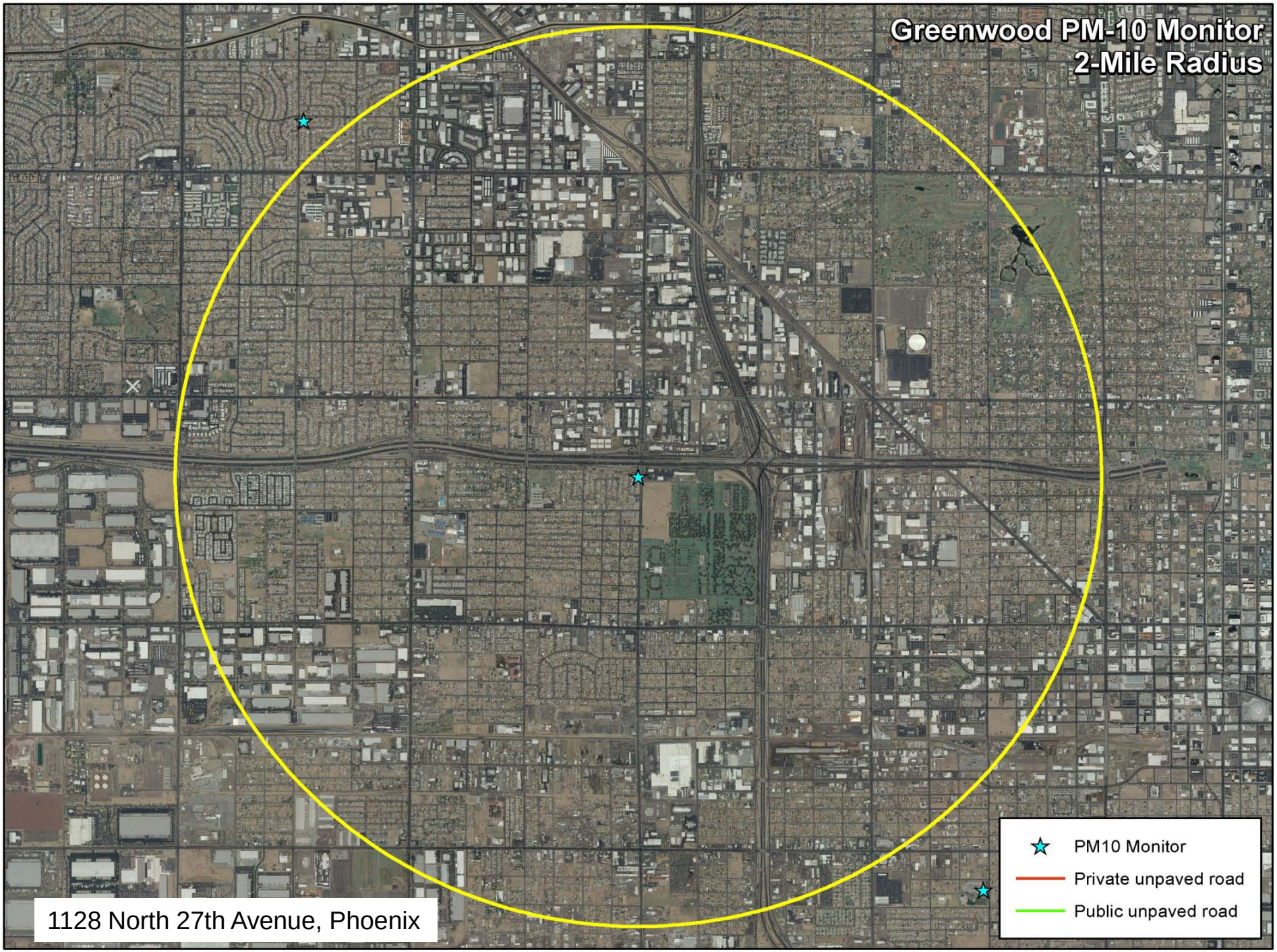

Higley PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
15400 South Higley Road, Gilbert

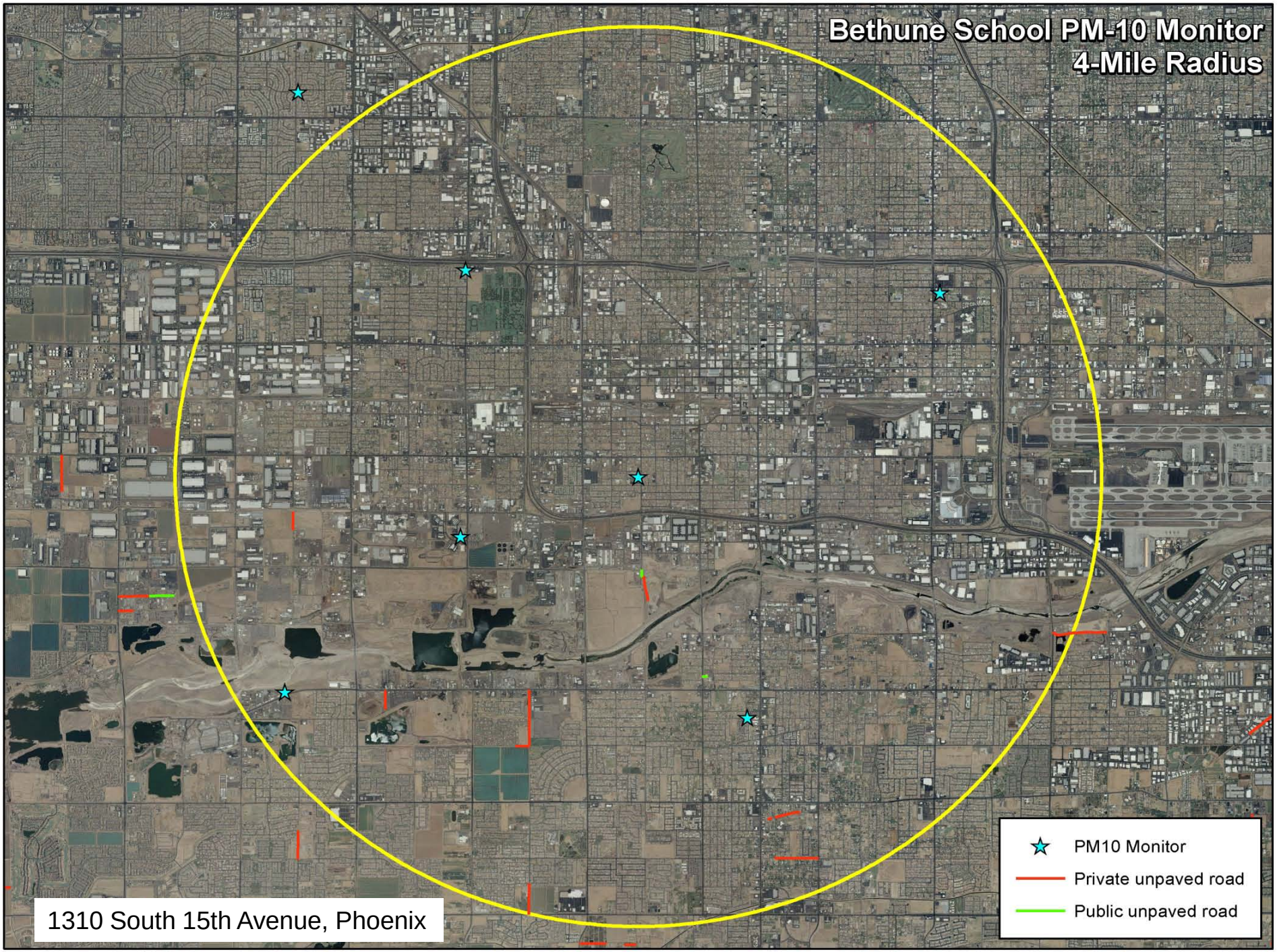

Higley PM-10 Monitor
2-Mile Radius
RANCH RD
NUNNELLEY RD
180TH ST
KNOX RD
155TH ST
WADE DR
FRYE RD
166TH ST
PECOS RD
148TH ST
PM10 Monitor
Private unpaved road
Public unpaved road
15400 South Higley Road, Gilbert

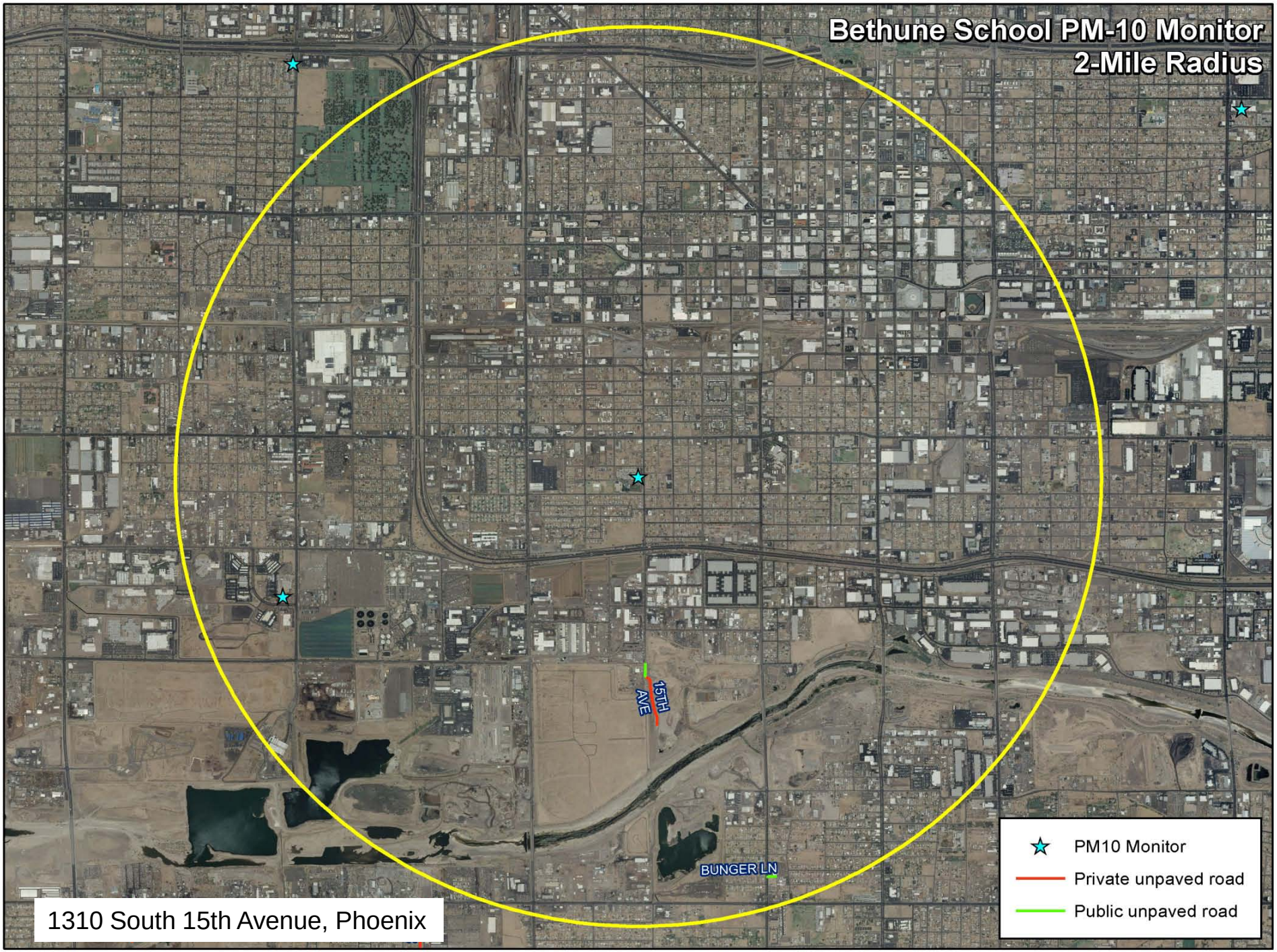

Buckeye PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
26449 West 100th Drive, Buckeye

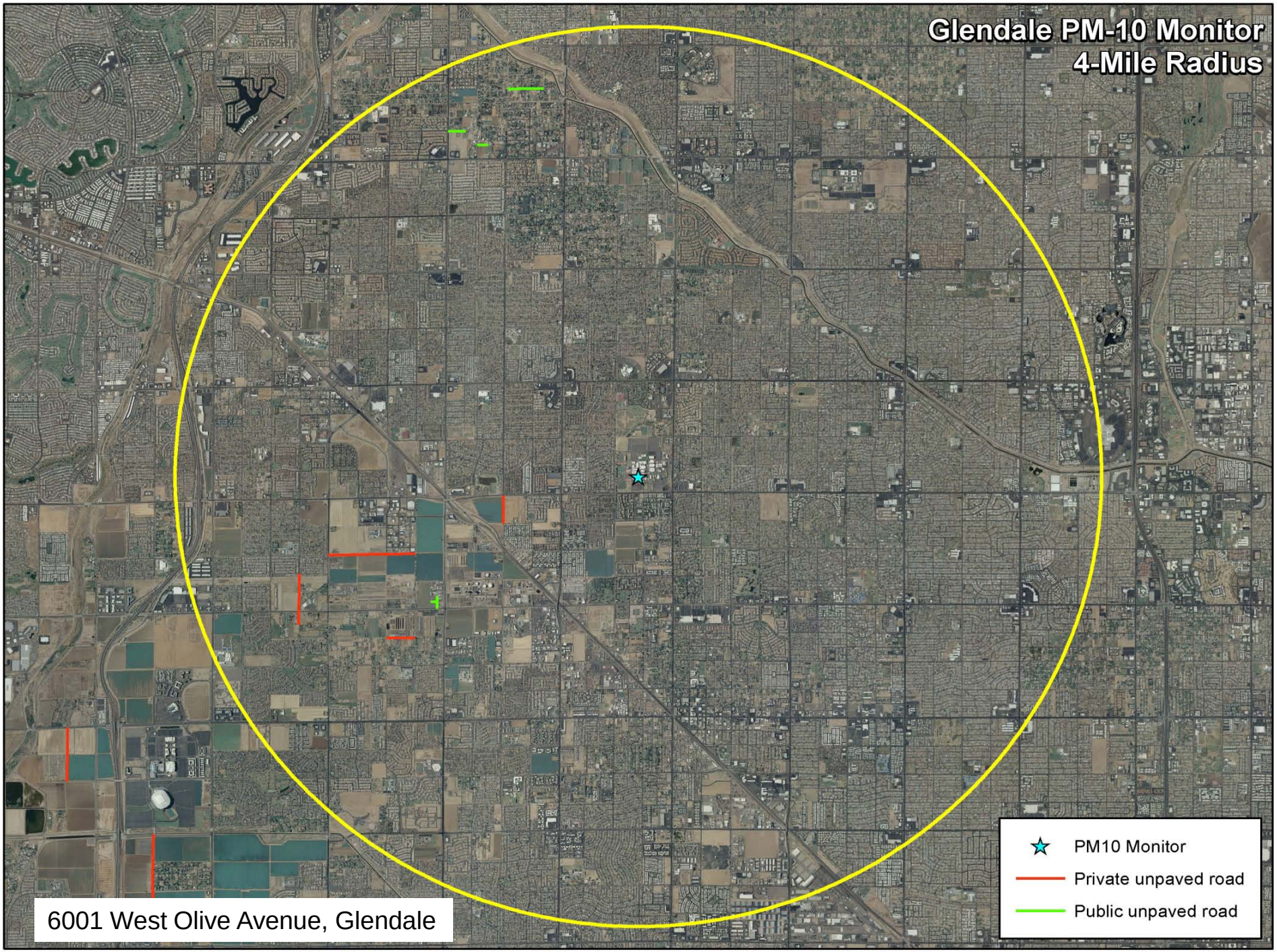

Buckeye PM-10 Monitor
2-Mile Radius
ROOKS RD
ROOKS RD
WILSON AVE
WILSON AVE
WILSON AVE
4TH AVE
253RD AVE
EDISON AVE
BELOAT RD
NORTON DR
APACHE RD
HAZEN RD
ROOKS
4TH ST
SUNRISE DR
PM10 Monitor
Private unpaved road
Public unpaved road
26449 West 100th Drive, Buckeye

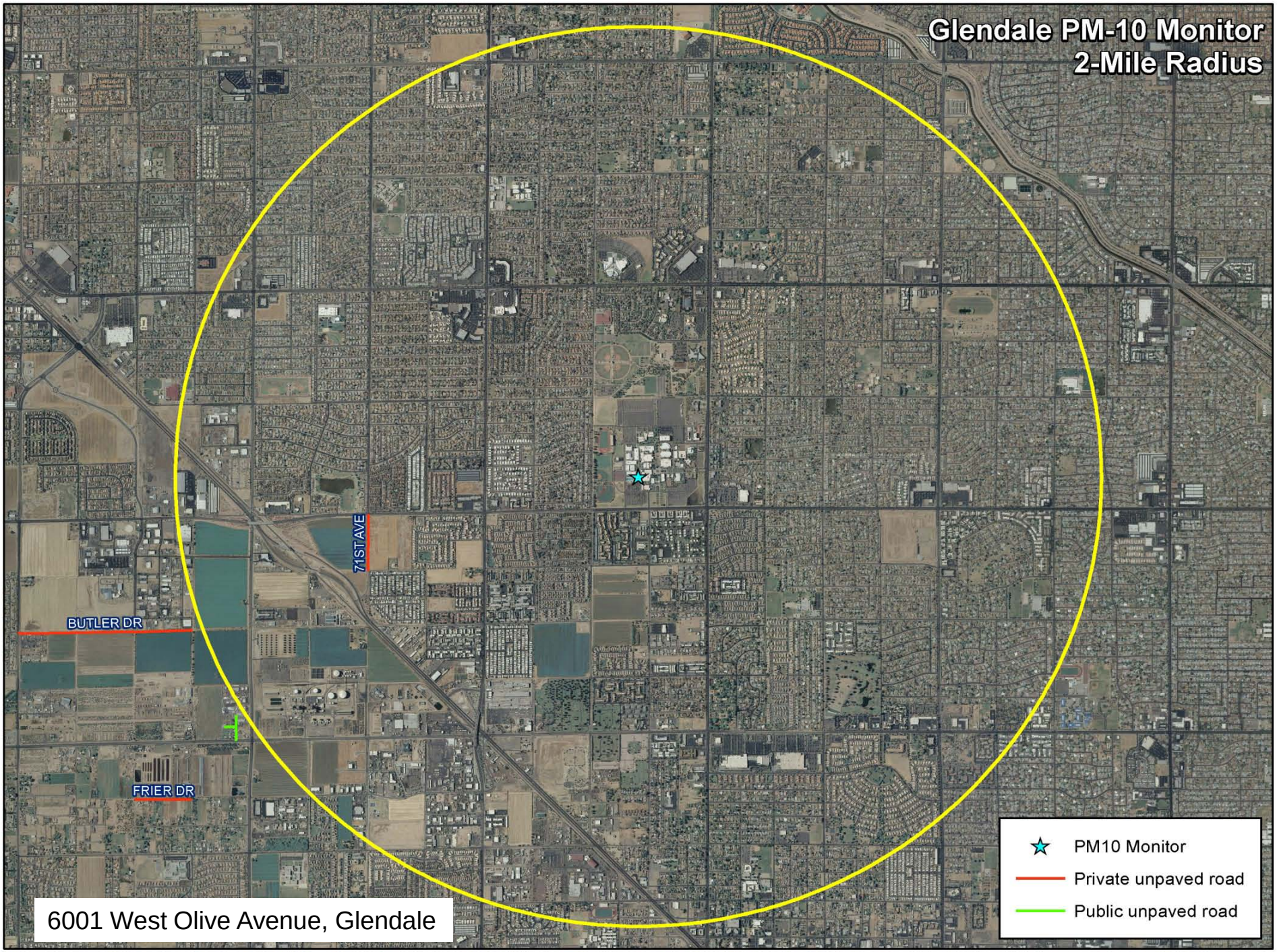

Greenwood PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
1128 North 27th Avenue, Phoenix

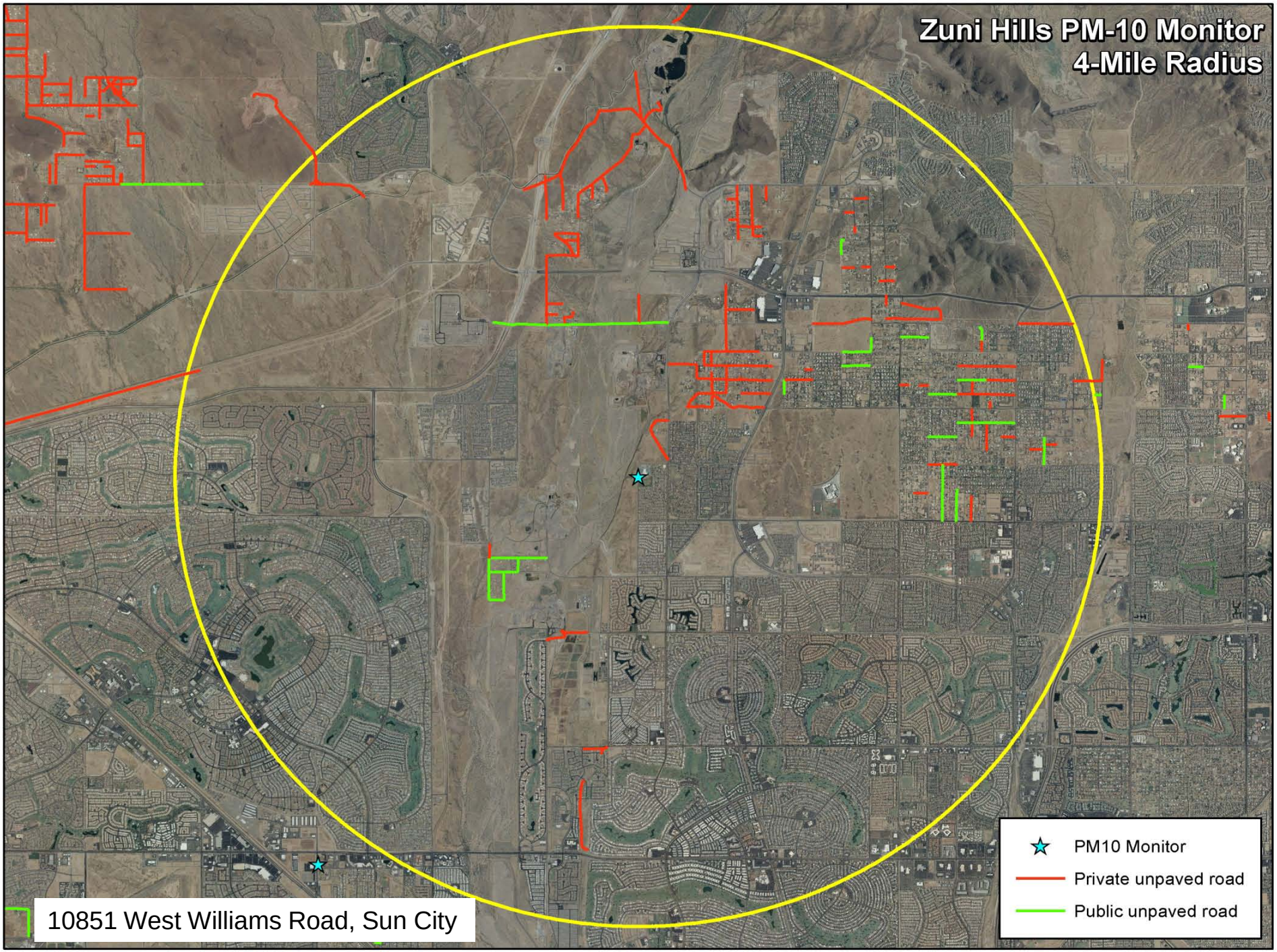

Greenwood PM-10 Monitor
2-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
1128 North 27th Avenue, Phoenix

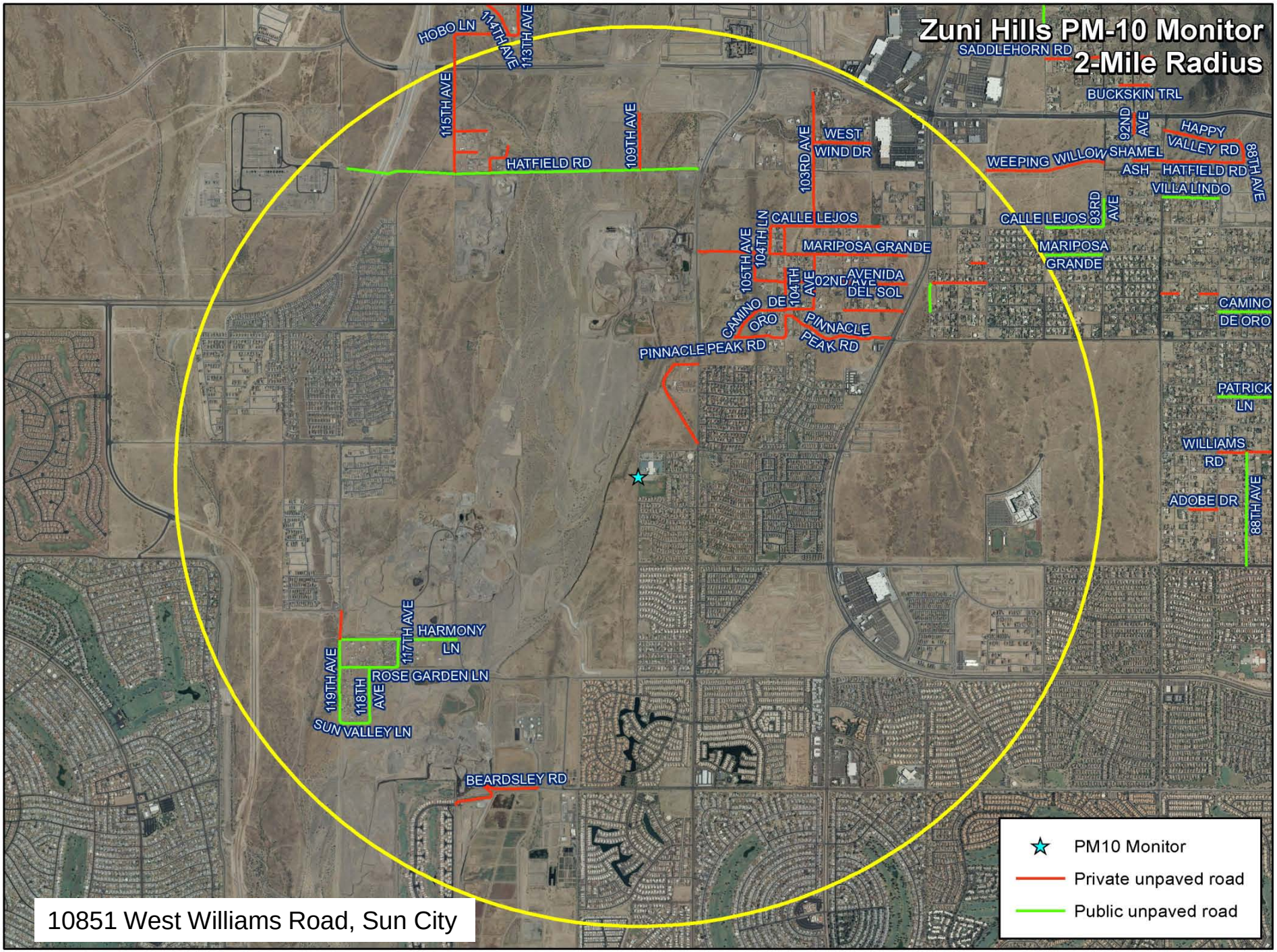

Bethune School PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
1310 South 15th Avenue, Phoenix


Bethune School PM-10 Monitor
2-Mile Radius
15TH AVE
BUNGER LN
PM10 Monitor
Private unpaved road
Public unpaved road
1310 South 15th Avenue, Phoenix

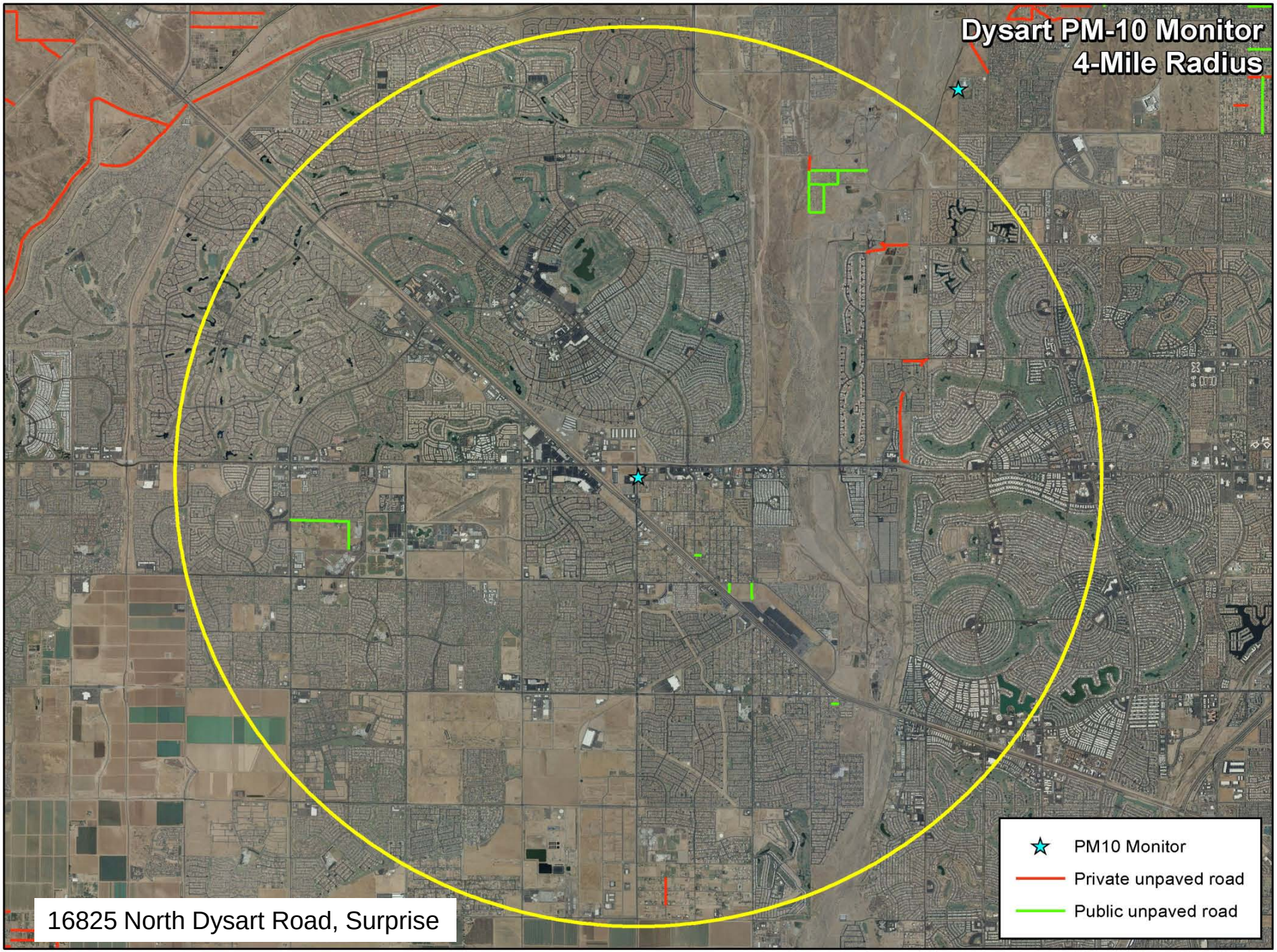

Glendale PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
6001 West Olive Avenue, Glendale

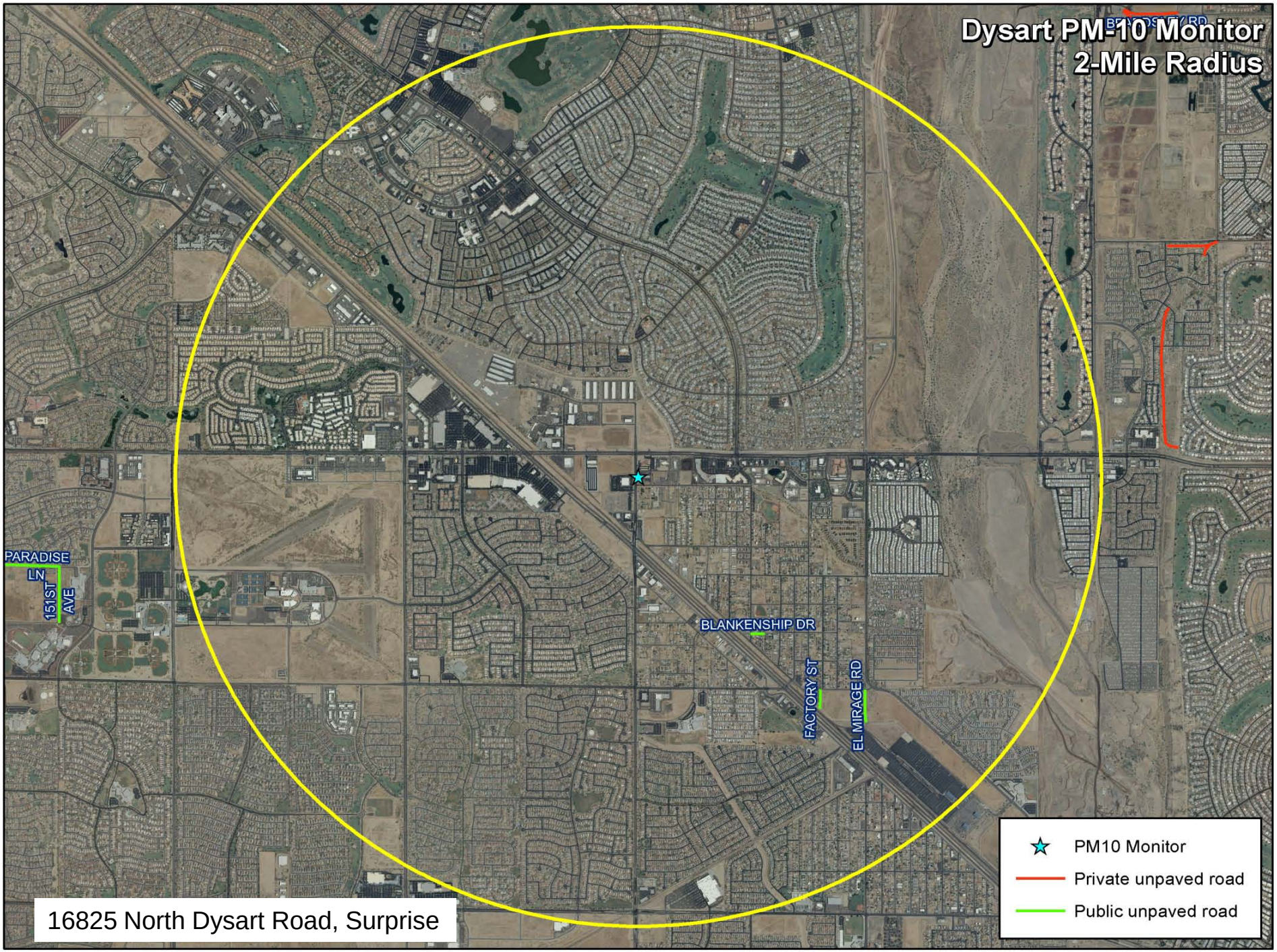

Glendale PM-10 Monitor
2-Mile Radius
71ST AVE
BUTLER DR
FRIER DR
PM10 Monitor
Private unpaved road
Public unpaved road
6001 West Olive Avenue, Glendale

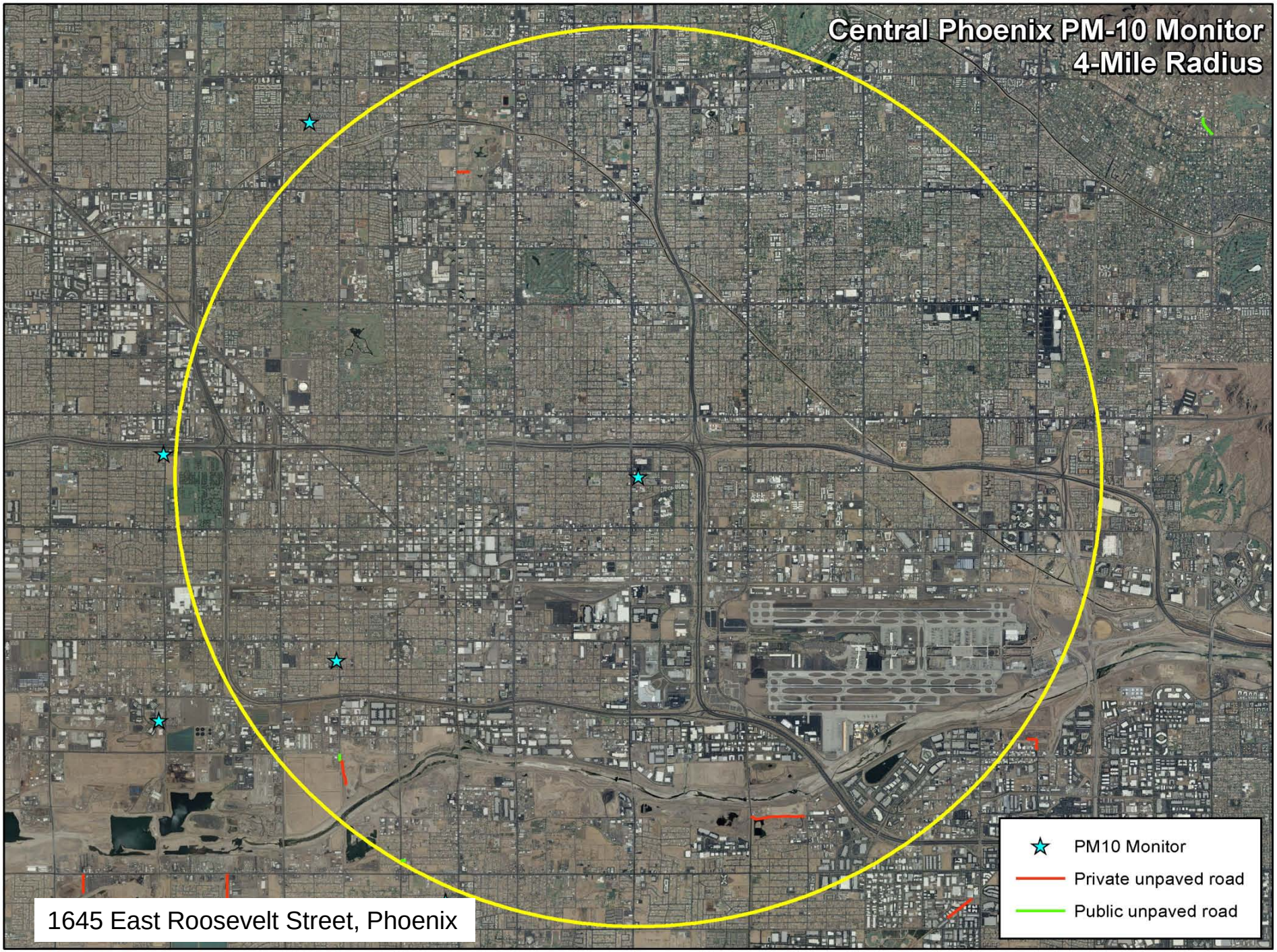

Zuni Hills PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
10851 West Williams Road, Sun City

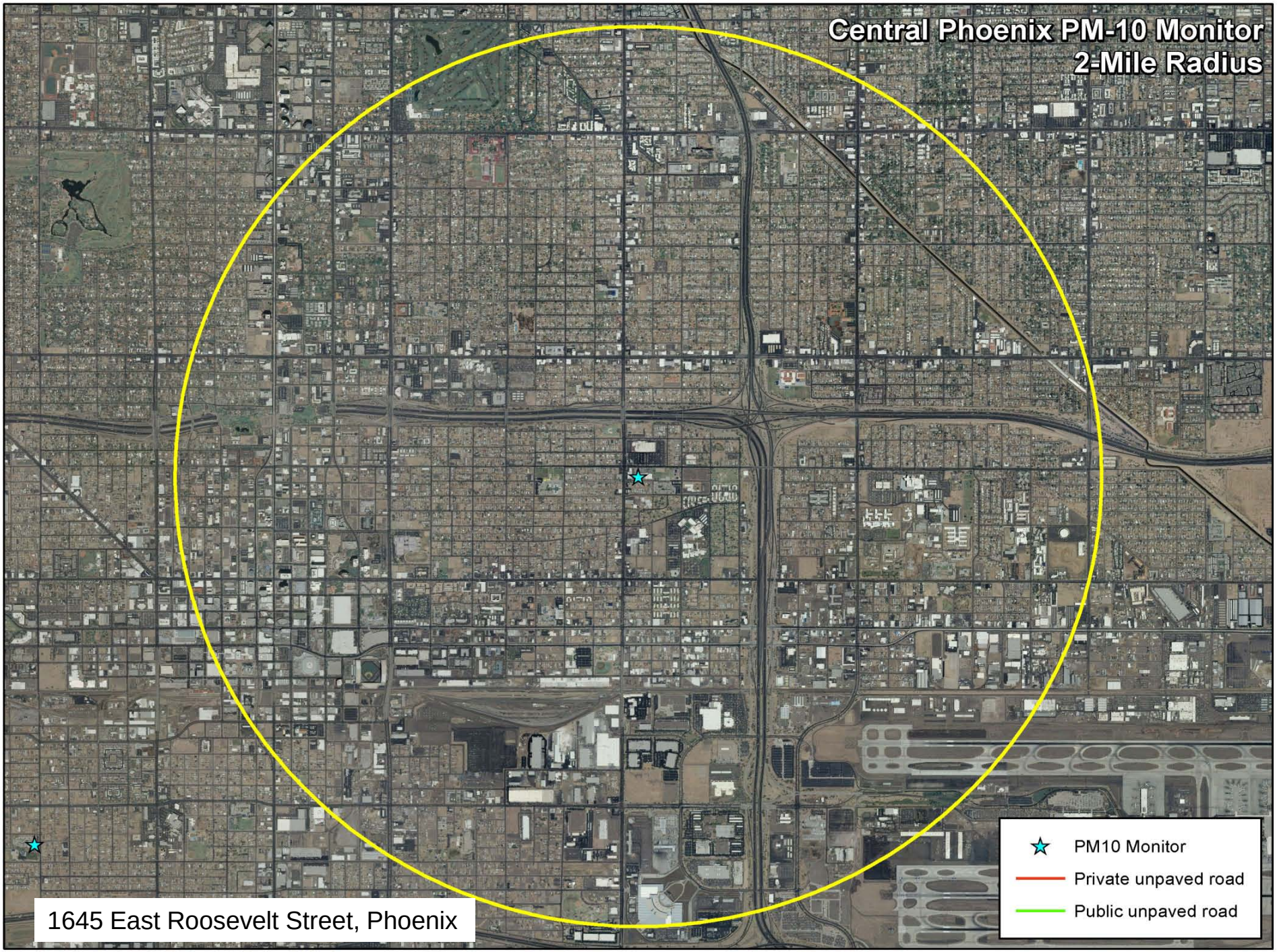


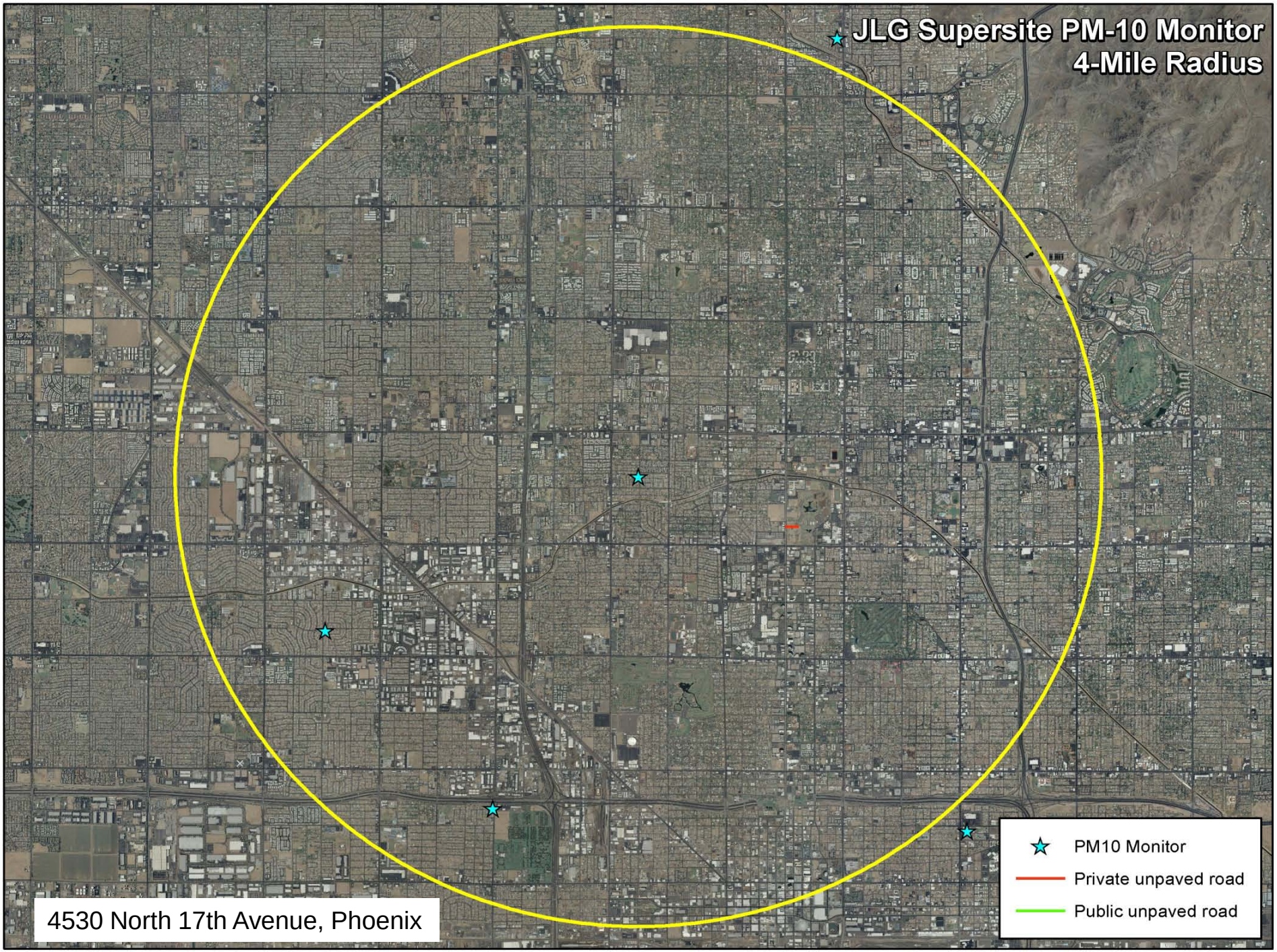
10851 West Williams Road, Sun City

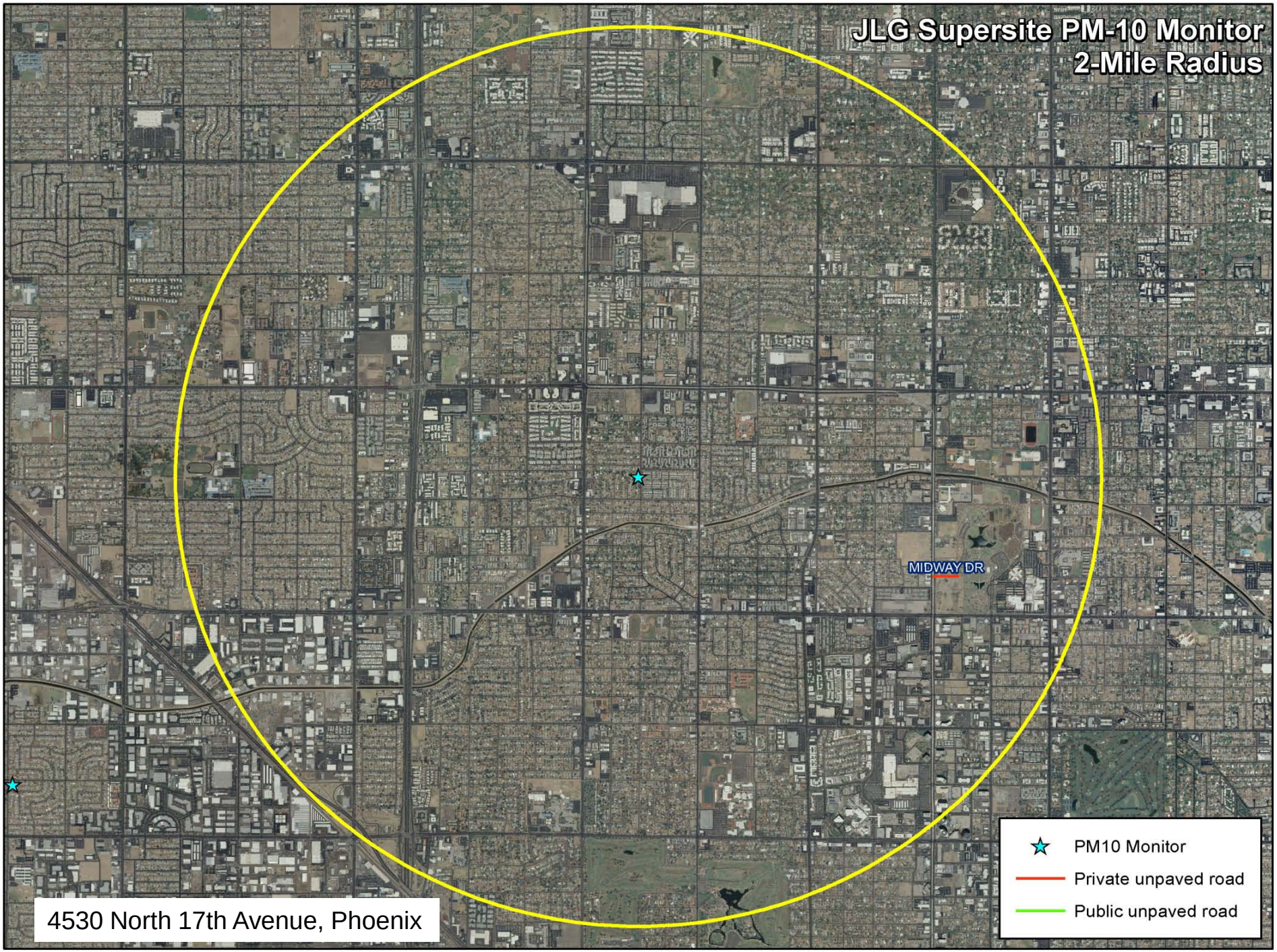

Dysart PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
16825 North Dysart Road, Surprise

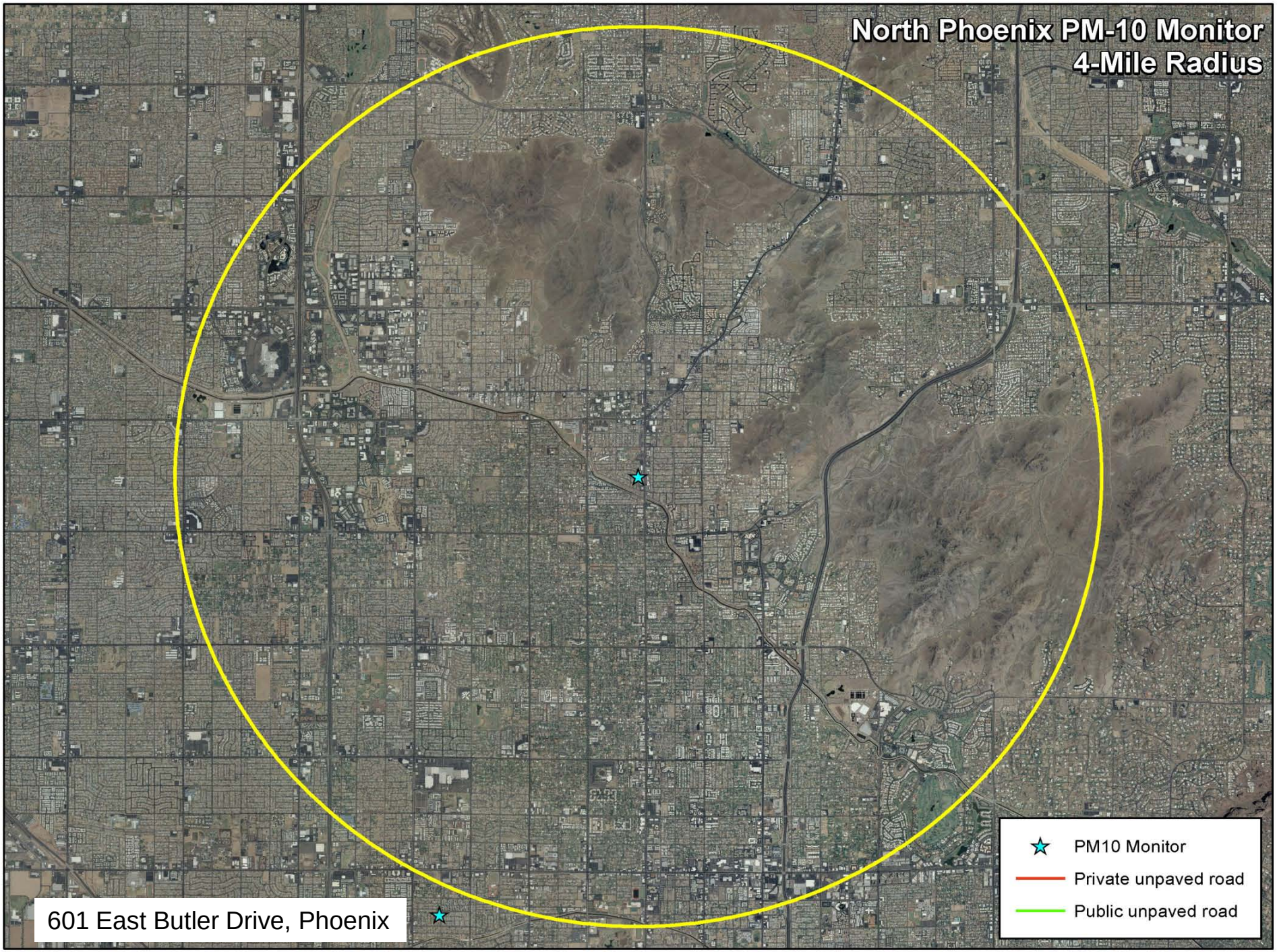

Dysart PM-10 Monitor
2-Mile Radius
PARADISE
LN
151ST
AVE
BLANKENSHIP DR
FACTORY ST
EL MIRAGE RD
PM10 Monitor
Private unpaved road
Public unpaved road
16825 North Dysart Road, Surprise

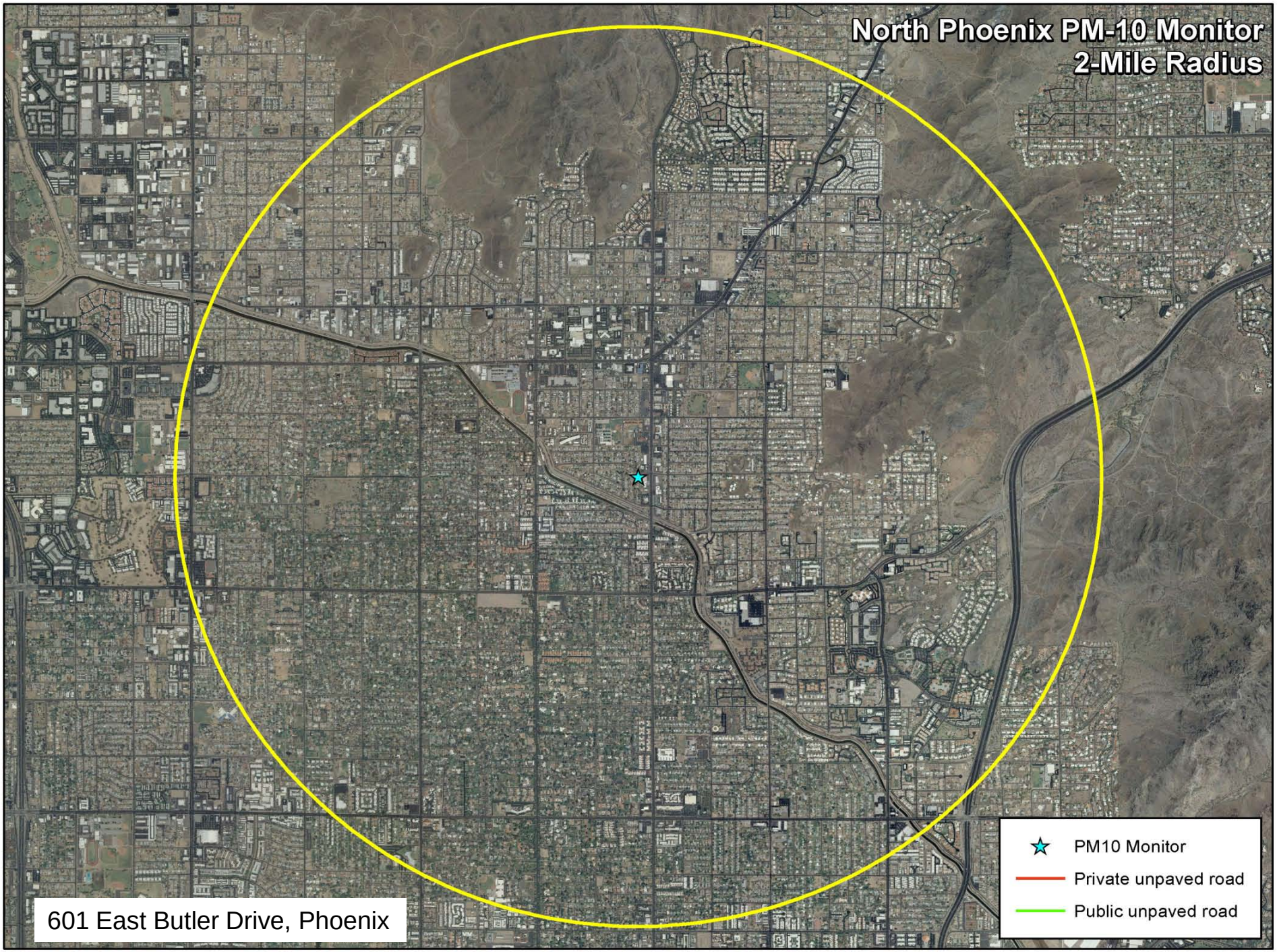

Central Phoenix PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
1645 East Roosevelt Street, Phoenix

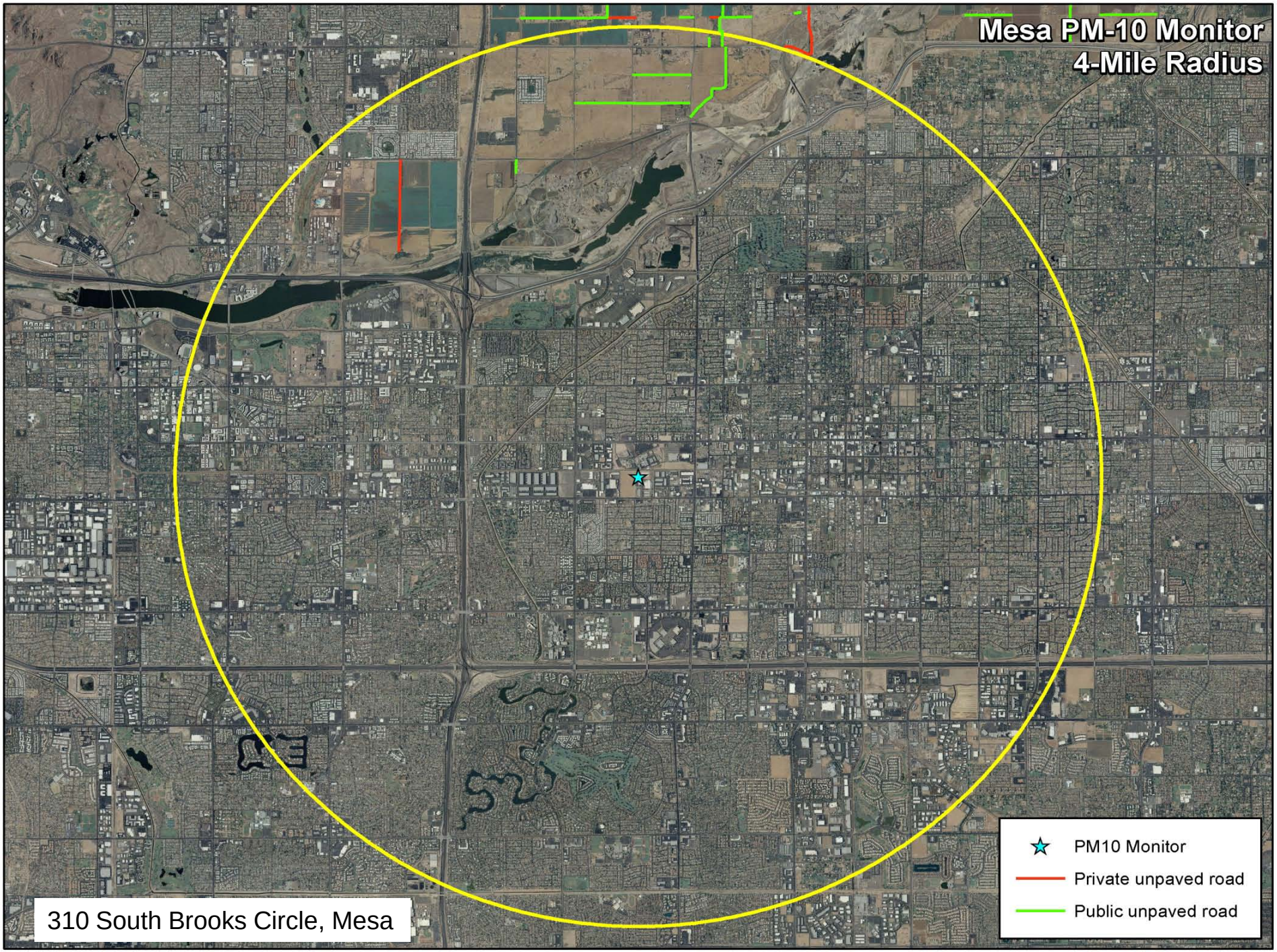

Central Phoenix PM-10 Monitor
2-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
1645 East Roosevelt Street, Phoenix

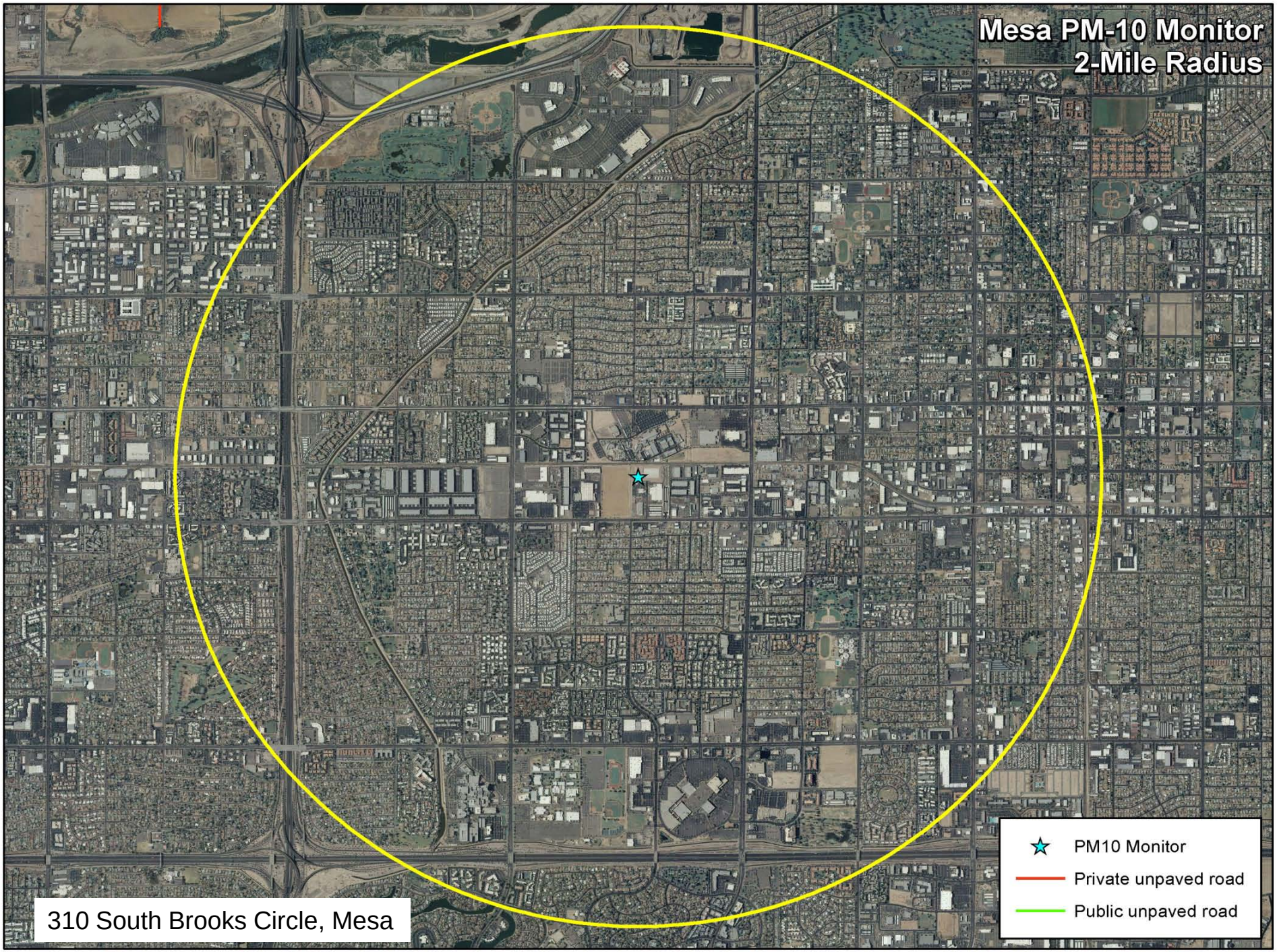

JLG Supersite PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
4530 North 17th Avenue, Phoenix

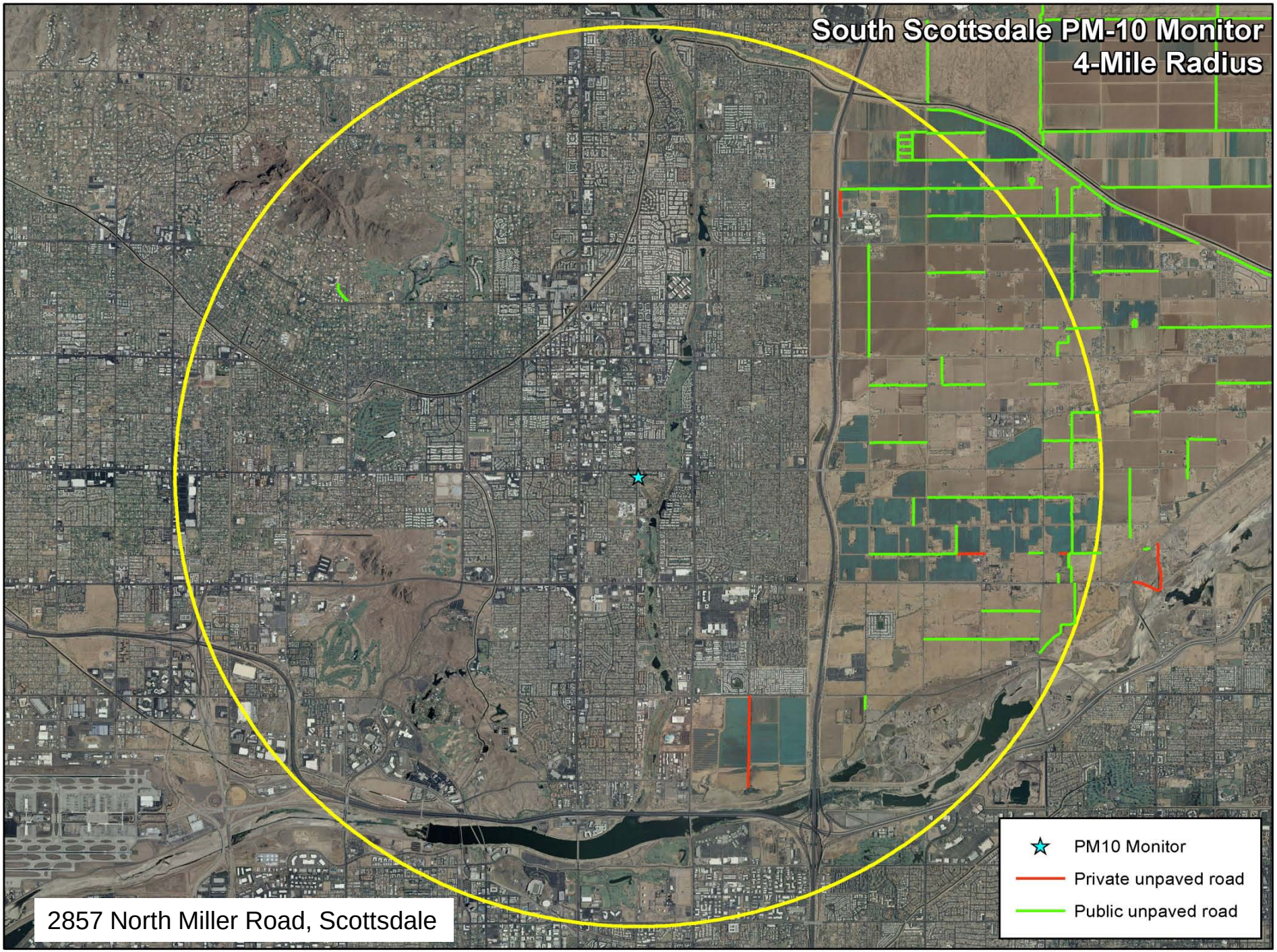

JLG Supersite PM-10 Monitor
2-Mile Radius
MIDWAY DR
PM10 Monitor
Private unpaved road
Public unpaved road
4530 North 17th Avenue, Phoenix

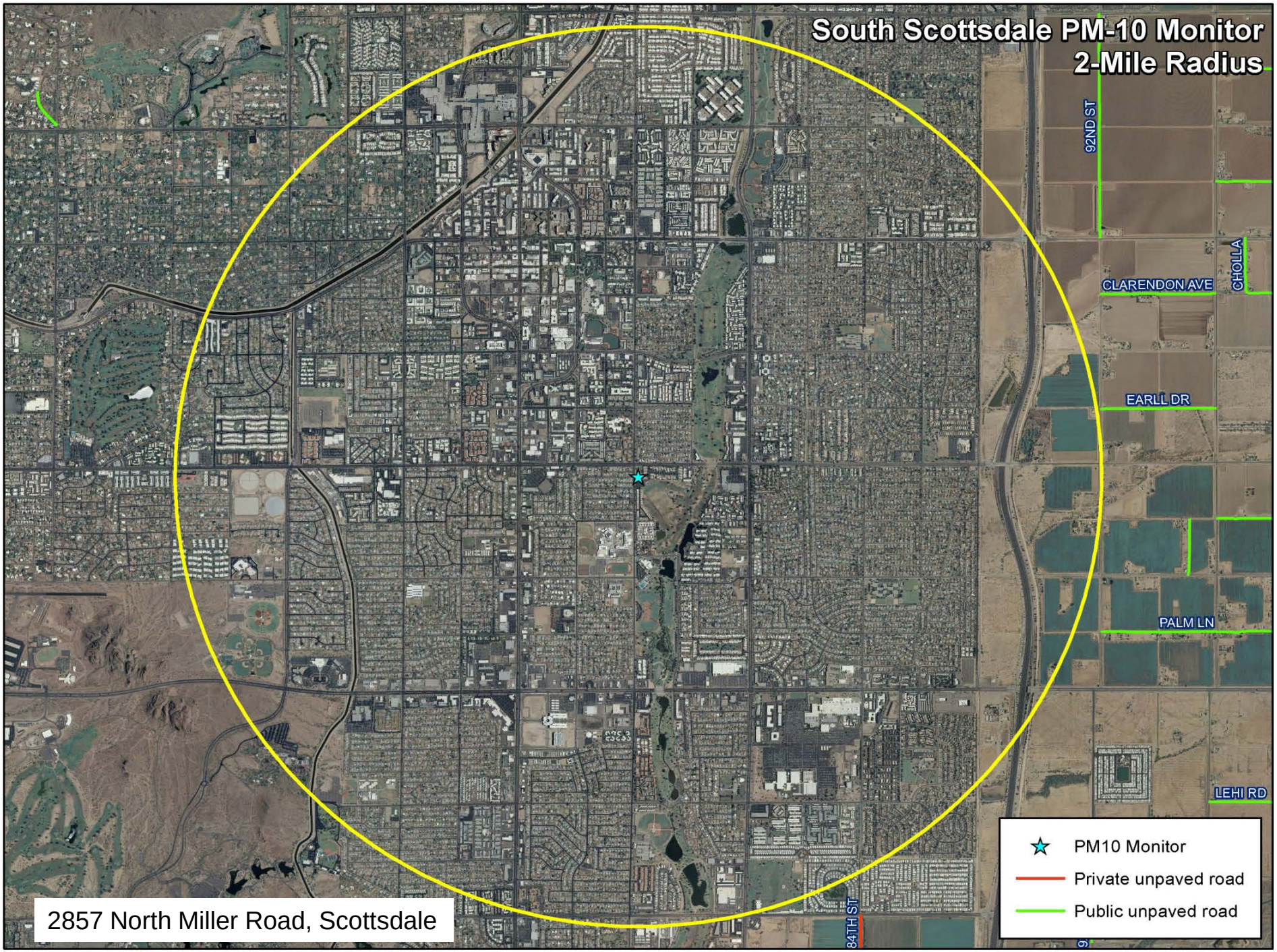

North Phoenix PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
601 East Butler Drive, Phoenix

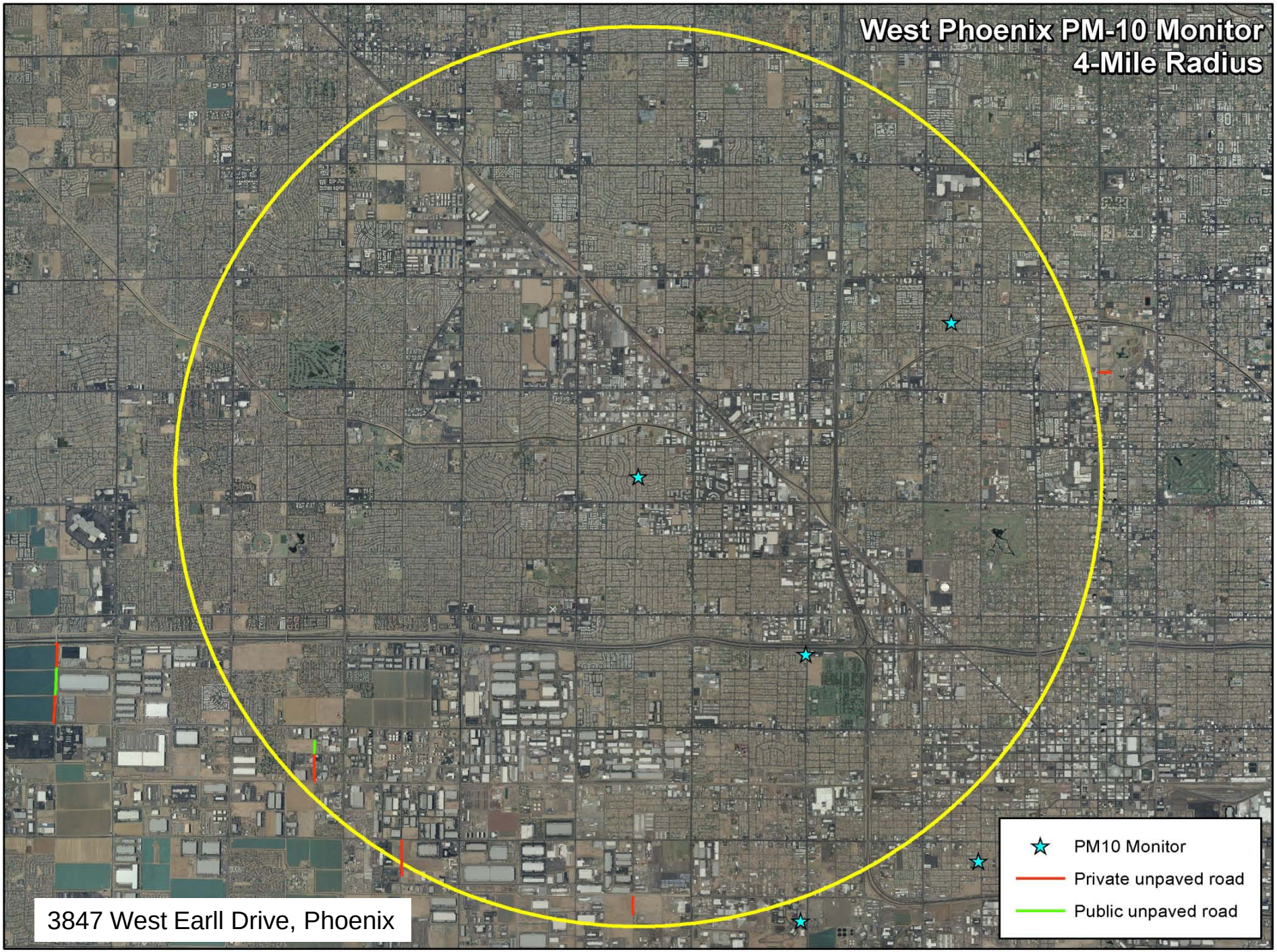

North Phoenix PM-10 Monitor
2-Mile Radius
601 East Butler Drive, Phoenix
PM10 Monitor
Private unpaved road
Public unpaved road

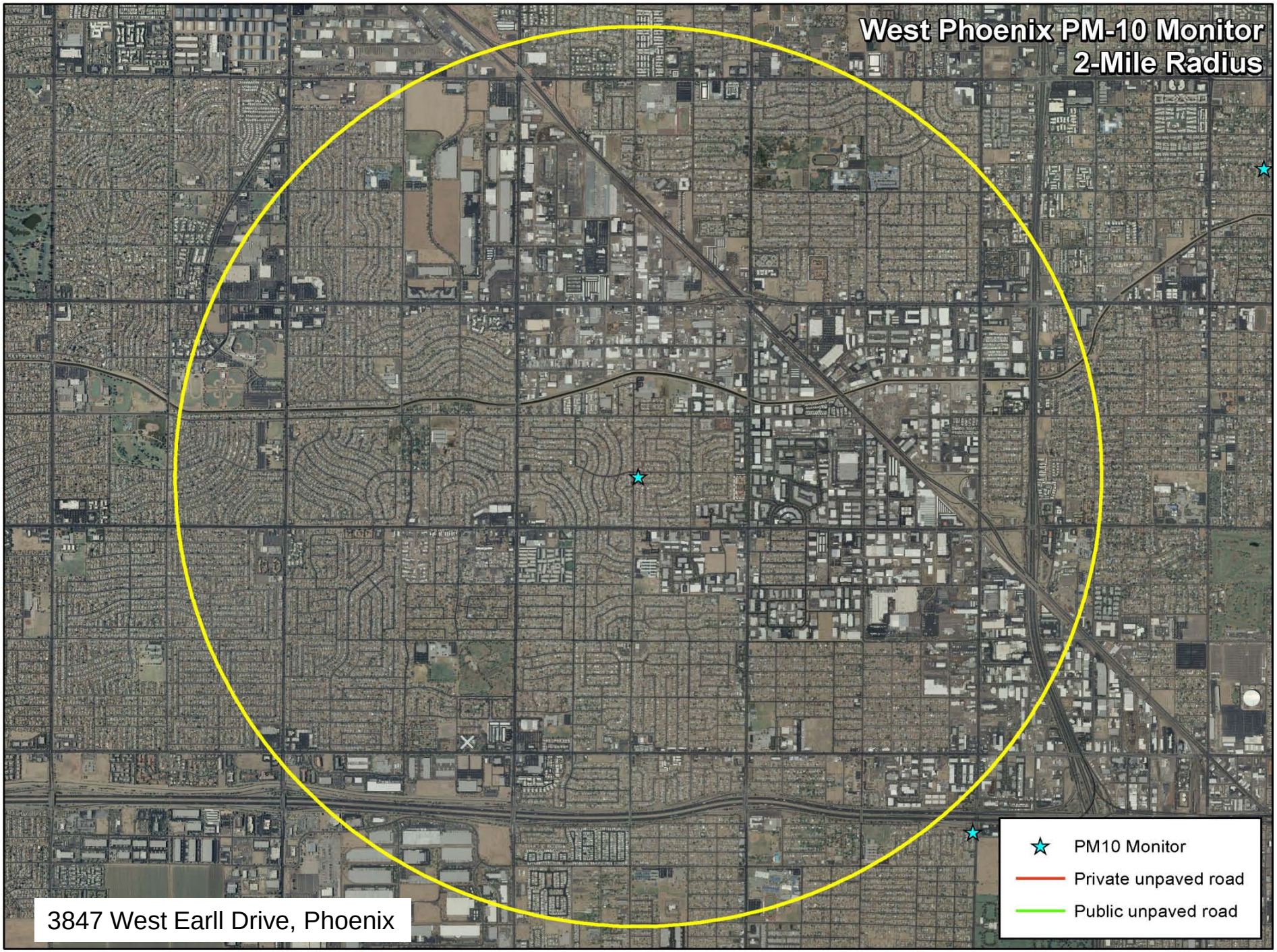

Mesa PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
310 South Brooks Circle, Mesa

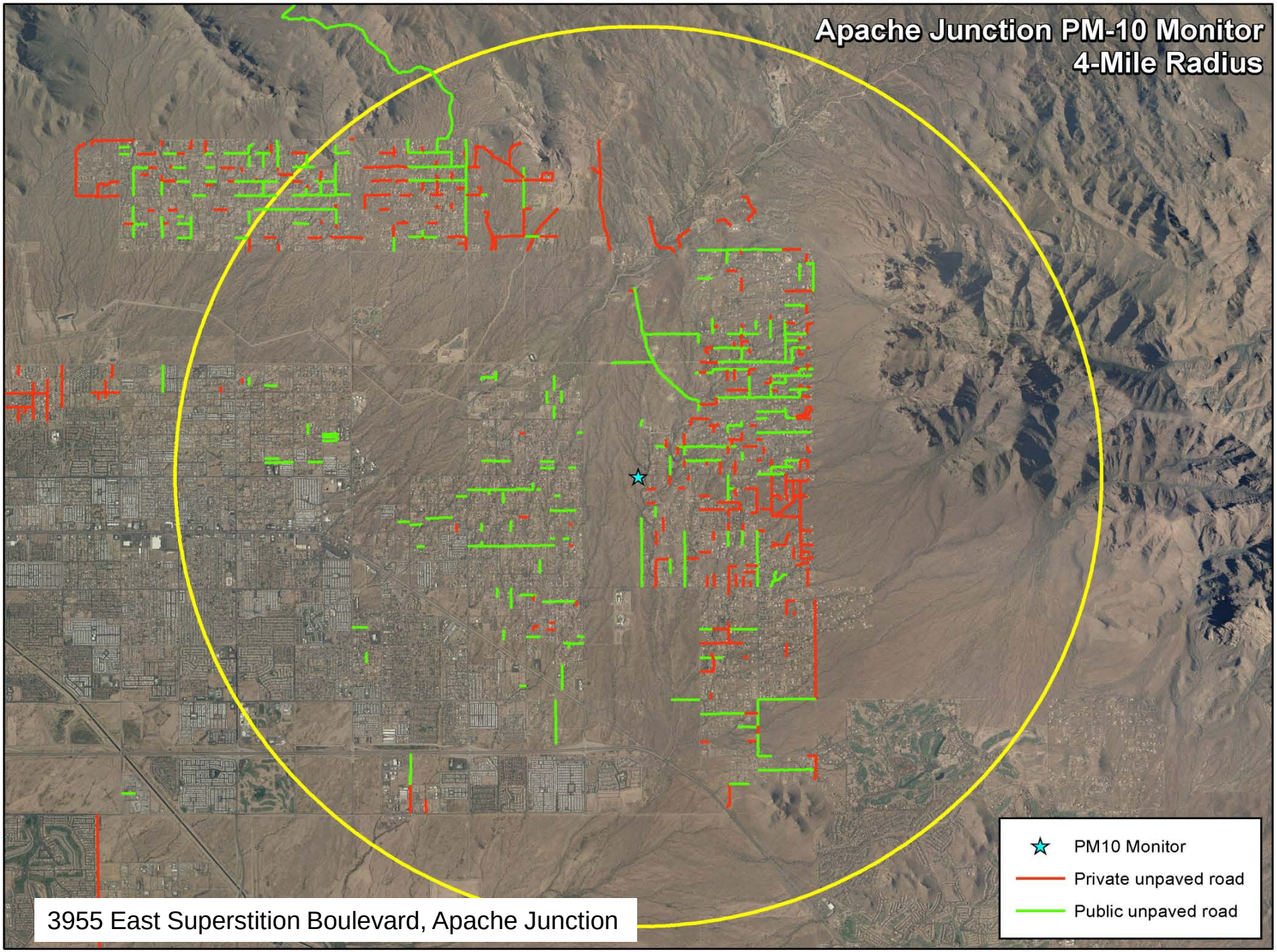

Mesa PM-10 Monitor
2-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
310 South Brooks Circle, Mesa

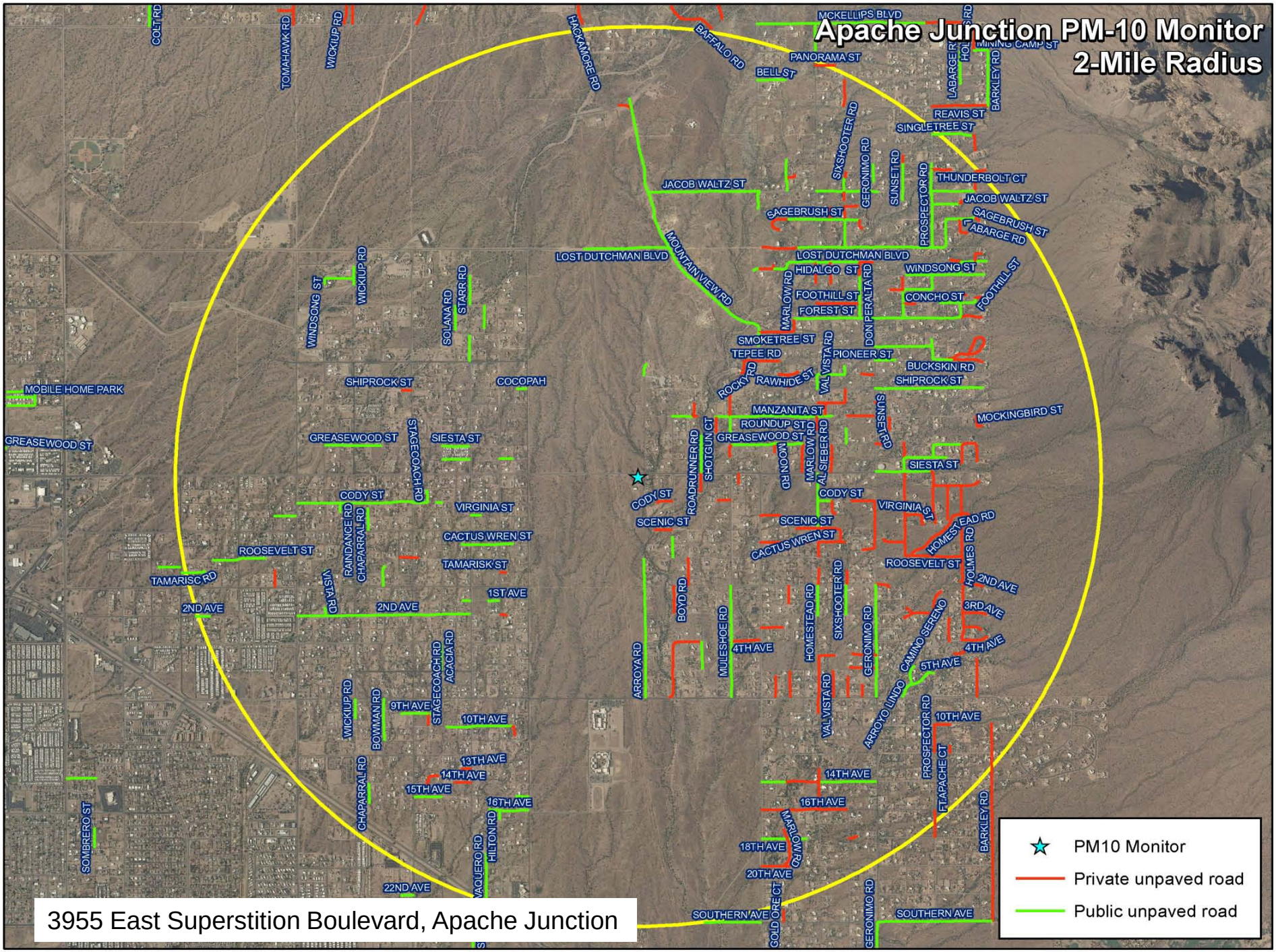

South Scottsdale PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
2857 North Miller Road, Scottsdale


South Scottsdale PM-10 Monitor
2-Mile Radius
92ND ST
CHOLLA
CLARENDON AVE
EARLL DR
PALM LN
LEHI RD
84TH ST
PM10 Monitor
Private unpaved road
Public unpaved road
2857 North Miller Road, Scottsdale


West Phoenix PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
3847 West Earll Drive, Phoenix


West Phoenix PM-10 Monitor
2-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
3847 West Earll Drive, Phoenix


Apache Junction PM-10 Monitor
4-Mile Radius
PM10 Monitor
Private unpaved road
Public unpaved road
3955 East Superstition Boulevard, Apache Junction



3955 East Superstition Boulevard, Apache Junction

Unpaved Road Mileages Near PM-10 Monitors

Monitor	Address	2-mile radius		4-mile radius	
		Public	Private	Public	Private
Apache Junction	3955 East Superstition Boulevard, A.J.	19.43	14.41	32.47	27.29
Bethune School	1310 South 15th Avenue, Phoenix	0.11	0.23	0.11	2.27
Buckeye	26449 West 100th Drive, Buckeye	0.33	2.38	4.09	21.25
Central Phoenix	1645 East Roosevelt Street, Phoenix	0	0	0.11	0.82
Durango Complex	2702 RC Esterbrooks Boulevard, Phoenix	0.06	1.18	0.33	3.61
Dysart	16825 North Dysart Road, Surprise	0.29	0	2.73	1.79
Glendale	6001 West Olive Avenue, Glendale	0	0.25	0.72	1.70
Greenwood	1128 North 27th Avenue, Phoenix	0	0	0.28	1.24
Higley	15400 South Higley Road, Gilbert	0.61	1.18	1.69	12.30
JLG Supersite	4530 North 17th Avenue, Phoenix	0	0.12	0	0.12
Mesa	310 South Brooks Circle, Mesa	0	0	2.64	0.82
North Phoenix	601 East Butler Drive, Phoenix	0	0	0	0
South Phoenix	33 West Tamarisk Avenue, Phoenix	0.11	1.46	0.52	4.36
South Scottsdale	2857 North Miller Road, Scottsdale	0	0	16.17	1.40
West 43rd Ave	3940 West Broadway Road, Phoenix	0.22	0.98	3.48	10.94
West Chandler	275 South Ellis Street, Chandler	0	0.37	0	2.84
West Phoenix	3847 West Earll Drive, Phoenix	0	0	0.12	0.63
Zuni Hills	10851 West Williams Road, Sun City	3.27	7.73	6.75	23.49

Note: all distances are in miles.

Source: MAG Unpaved Roads database

Notes:

1. Mileages may represent duplicate values if an unpaved road segment falls within the 2- or 4-mile radius of more than one PM-10 monitor.

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ENVIRONMENTAL PROGRAMS

MARICOPA ASSOCIATION of GOVERNMENTS

For More Information

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