

2014 Oregon Annual Ambient Air Monitoring Network Plan

Submitted to: Environmental Protection Agency, Region 10.

By: Anthony Barnack

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State of Oregon
Department of
Environmental
Quality

**Air Quality
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DEQ is a leader in restoring, maintaining and enhancing the quality of Oregon's air, land and water.

2014 Oregon Annual Ambient Air Monitoring Network Plan

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Glossary of Air Quality Terms

AQI	Air Quality Index – standardized EPA method of reporting air quality
CO	Carbon monoxide – An odorless, colorless gaseous pollutant
FEM	Federal Equivalence Method (Method approved for comparison to NAAQS)
FRM	Federal Reference Method (Method approved for comparison to NAAQS)
HAPs	Hazardous Air Pollutant as defined in Title III of the Clean Air Act
IMPROVE	EPA's PM _{2.5} speciation visibility network
NAAQS	National Ambient Air Quality Standards – federal air quality standards
NATTS	National Air Toxics Trends network
NO	Nitrogen oxide
NO ₂	Nitrogen dioxide
NOx	Nitrogen oxides – redish brown gaseous pollutant - mainly NO and NO ₂
NOy	NOx + HNO ₃ + organic nitrates + inorganic nitrates = NOx + NOz
O ₃	Ozone – a gaseous pollutant and a component of smog at ground level
PM2.5	Particulate Matter 2.5 micrometers in diameter and smaller
PM10	Particulate Matter 10 micrometers in diameter and smaller
PM10-2.5	The particle size between 10 and 2.5.
SIP	State Implementation Plan
SO ₂	Sulfur dioxide
TSP	Total Suspended Particulates
VOC	Volatile Organic Compounds
WAQR	Wildfire Air Quality Rating - wildfire smoke health internet page

Air Pollutant Concentration Units:

ppm	Parts per million
ppb	Parts per billion
µg/m ³	Microgram per cubic meter
ng/m ³	Nanograms per cubic meter

Executive Summary

In 2014/2015 the following changes will be made to the monitoring network.

NO2 Roadway site

The roadway site was started on April 21st, 2014. The site includes NO₂, CO, PM_{2.5}, Ozone, Black Carbon, wind speed, wind direction, temperature, and Relative Humidity. Future monitoring may include air toxics and fine particulate.

Burns PM2.5 FRM site

The 2011-13 PM_{2.5} daily design value is within 5% below the NAAQS and DEQ is required to sample daily according to 40 CFR Part 58.12 subsection d (1) (iii). Federal Reference Sampling will change from every third day to daily in January 2015.

Gresham Air Toxics

The state funded air toxic site will move to Gresham, in or around the spring of 2015 and operate for at least one year. Gresham was the next city identified in the 2010 five year monitoring plan to be assessed for air toxics.

N. Portland Air Toxics

The Oregon legislature has funded air toxics monitoring in N. Portland near Swan Island to assess the air quality in the neighborhood. Monitoring is schedule to start in the fall of 2014.

1. Purpose

Code of Federal regulations, 40 CFR 58.10, requires the state and local air quality surveillance agencies to write an annual ambient air quality monitoring network plan. EPA requires the plan to be put out for public comment and submitted to EPA by July 1st. This report is used to determine if the network meets the monitoring objectives defined in Part 58, Appendix D and to propose modifications to the network in the following year. A more detailed air quality data summary is available annually at <http://www.deq.state.or.us/aq/forms/annrpt.htm> .

2. Introduction

The Oregon Department of Environmental Quality's (ODEQ) ambient air quality monitoring network is designed in response to the Environmental Protection Agency's (EPA) National Monitoring Strategy, state and local needs, the requirements of air quality maintenance plans and the State Implementation Plans (SIPs) for non-attainment areas, and CFR requirements.

2.1 National Monitoring Strategy

The National Monitoring Strategy directs state and local agencies to operate more continuous monitors and to collect real time air quality data. The real time information is available through EPA's AIRNow and ODEQ's Air Quality Index (AQI) web pages. In particular, EPA encouraged states to use continuous PM_{2.5} monitors instead of the filter base samplers which do not provide real time information. The National Monitoring Strategy also created National Core (NCORE) sites which contain a wide array of pollutant monitoring. ODEQ's NCORE site has monitors for Carbon monoxide (CO), Nitrogen oxides (NOx), Sulfur dioxide (SO₂), ozone (O₃), particulate matter 2.5 and 10 micrometers in diameter and smaller (PM_{2.5} and PM₁₀), PM coarse (PM₁₀-PM_{2.5}=PMc), PM_{2.5} Speciation, visibility, and meteorology. The NCORE site is at SE Lafayette, Portland.

2.1.1 State and Local Support

Our monitors support state and local needs by providing data for the Air Quality Index, local wood stove management programs, Clean Air Quality Advisories, the Department of Agriculture's field burning program, and the US Forest Service and BLM's forest health program. ODEQ also operates a visibility network in the Cascades and near the Eagle Cap wilderness to support Regional Haze requirements protecting pristine Class 1 areas.

2.1.2 AQ Maintenance and Non-attainment support

ODEQ monitoring supports the SIPs and maintenance plans developed for many cities. ODEQ also has monitors in attainment areas with fast growing populations to support pollution prevention measures.

2.2 Non-attainment and Maintenance Areas

Areas are designated attainment or non-attainment a few years after a standard is issued. If an area exceeds the standard a State Implementation Plan (SIP) is written to bring the area into attainment. After monitoring shows a non-attainment area has reached attainment, a maintenance plan is created to keep it there. Oregon's non-attainment and maintenance areas are below.

2.2.1 Non-attainment Areas:

PM_{2.5} Klamath Falls Urban Growth Boundary
 Oakridge Urban Growth Boundary

2.2.2 Maintenance Areas in Oregon (formerly non-attainment areas):

CO: Grants Pass Central Business District
 Portland Metropolitan Service District Boundary
 Klamath Falls Urban Growth Boundary
 Medford Urban Growth Boundary
 Salem-Kaiser Area Transportation Study

PM₁₀: Grants Pass Urban Growth Boundary
 Klamath Falls Urban Growth Boundary
 Medford-Ashland Air Quality Maintenance Area
 La Grande Urban Growth Boundary
 Lakeview Urban Growth Boundary
 Eugene/Springfield Urban Growth Area
 Oakridge Urban Growth Boundary

Ozone (1hr): Portland/Vancouver AQMA

3. Overview of Network Operations

3.1 Air Monitoring Network Design

Site Type and Spatial Scale

Federal regulations, specifically 40 CFR Part 58. Appendix D, require that a State and Local Air Monitoring (SLAMS) network be designed to meet a minimum of three basic monitoring objectives: Provide air pollution data to the public in a timely manner, support compliance with the National Ambient Air Quality Standards (NAAQS), and support air pollution research. A variety of site types are needed to support these basic objectives, including the six general types identified in Appendix D.

1. Sites located to determine the **highest concentrations** expected to occur in the area covered by the network.
2. Sites located to measure typical **concentrations in areas of high population** density.
3. Sites located to determine the **impact of significant sources** or source categories on air quality.
4. Sites located to determine general **background concentration** levels.
5. Sites located to determine the extent of **regional pollutant transport** among populated areas; and in support of secondary standards.
6. Sites located to measure air pollution **impacts on visibility, vegetation damage**, or other welfare-based impacts.

The physical siting of air monitoring station must conform to 40 CFR Part 58 and its location must achieve a spatial scale of representativeness that is consistent with the monitoring objective and site type. The spatial scale results from the physical location of the site with respect to the pollutant sources and categories. It estimates the size of the area surrounding the monitoring site that experiences uniform pollutant concentrations. The categories of spatial scale are:

1. Microscale—Defines the concentrations in air volumes associated with area dimensions ranging from several meters up to about 100 meters.
2. Middle scale—Defines the concentration typical of areas up to several city blocks in size with dimensions ranging from about 100 meters to 0.5 kilometer.
3. Neighborhood scale—Defines concentrations within some extended area of the city that has relatively uniform land use with dimensions in the 0.5 to 4.0 kilometers range. The neighborhood and urban scales listed below have the potential to overlap in applications that concern secondarily formed or homogeneously distributed air pollutants.

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4. Urban scale—Defines concentrations within an area of city-like dimensions, on the order of 4 to 50 kilometers. Within a city, the geographic placement of sources may result in there being no single site that can be said to represent air quality on an urban scale.
5. Regional scale—Defines usually a rural area of reasonably homogeneous geography without large sources, and extends from tens to hundreds of kilometers.
6. National and global scales—These measurement scales represent concentrations characterizing the nation and the globe as a whole.

Table 1. Relationship Among Site Type and Scale of Representativeness

Site Type	Appropriate Spatial Scale
Highest Concentration	Micro, Middle, Neighborhood (sometimes urban)
Population Exposure	Middle, Neighborhood, Urban
Source Oriented	Micro, Middle, Neighborhood
General/Background	Neighborhood, Urban, Regional
Welfare-related Impacts	Urban, Regional

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Table 2 Table of ODEQ and LRAPA Ambient Air Monitoring Network

City	Site	SO ₂	CO	NO ₂	O ₃	Estimate PM	HAPS	PM ₁₀	PM _{2.5}	Spec	TSP Pb	WS/W/D	Temp	DT	BP	RH	SR
Albany	Calapooia School					X											
Applegate Vly	Provolt					X											
Bend	Bend Rd Dept				X							X	X		X	X	X
	Bend Pump Station					X											
Baker City	Forest Service					X											
Burns	E. Washington St.					X			X			X	X		X	X	X
Cave Junction	Forest Service					X											
Corvallis	Intermediate School					X											
Cottage Grove	City Shops					X			X								
Cove	City Hall					X						X	X				
Crater Lake	Maintenance Area					X											
Enterprise	Forest Service					X											
Eugene	Pacific Highway 99N					X		X	X	X							
	Amazon Park				X	X			X								
	Wilkes Drive											X	X				
Saginaw	Delight Valley Sch Rd				X												
Springfield	City Hall					X		X			X						
Grants Pass	Parkside School					X		X			X	X		X			
Hermiston	Municipal Airport				X						X	X					
John Day	Davidson Street					X											
Klamath Falls	Clinton St, Peterson Sch					X		X	X	X		X	X	X	X	X	
La Grande	Ash Street					X	X	X				X	X		X	X	
Lakeview	Center & M Streets					X			X	X		X	X		X		
Lyons	Maryilynn School					X											
Madras	Westside School					X											
Medford	Welch & Jackson Sts							X									
	Grant & Belmont Sts					X			X								
	Talent				X												
	Rossanley Drive											X	X	X	X	X	
Eagle Cap	Mt Fanny							X									
Mt. Hood	Multopor							X									
Oakridge	School Street					X	X	X			X	X					
Pendleton	SW Marshall Place					X		X			X	X		X			
Eagle Cap	Mt Fanny							X									
Mt. Hood	Multopor							X									

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City	Site	SO ₂	CO	NO ₂	O ₃	VIS/PM	HAPS	PM ₁₀	PM _{2.5}	Spec	TSP Pb	WS/WD	Temp	DT	BP	RH	SR
Portland	SW Miller - KPTV tower												X	X			
	SE Lafayette & 58 th Sts	X	X	X	X	X		X	X	X		X	X	X	X	X	X
	Near Roadway Site		X	X	X		X*		X			X	X			X	
	N Roselawn						X										
	N Kirby, Jefferson High											X					
<i>Beaverton</i>	Highland Park School					X											
<i>Carus</i>	Spangler Road				X	X						X	X				
<i>Hillsboro</i>	NE Grant St.					X			X								
<i>Sauvie Is</i>	Route 1 Box 442				X	X						X	X				
<i>Sherwood</i>	SW Lasich Lane				X							X	X		X	X	X
Prineville	SE Court Street					X			X			X	X		X	X	X
Roseburg	NW Garden Valley Blvd					X											
Salem	Salem State Hospital					X											
<i>Turner</i>	Cascade Jr. High				X							X	X				
Silverton	James & Western Sts.					X						X	X				
Sisters	Forest Service					X											
Shady Cove	Shady Cove School					X											
Sweet Home	Fire Department					X											
The Dalles	Cherry Heights					X											

* The roadway site's HAP monitoring is only black carbon monitoring which is used as a diesel PM surrogate.

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3.2.1 Ozone Network

Oregon DEQ and LRAPA have 11 monitoring sites. Five in the Portland-Metro area, one in Salem, Two in Eugene-Springfield, one in the Medford-Ashland area, one in Hermiston, and one in Bend. Maps of the network are shown below.

2014 DEQ & LRAPA Ozone Sites

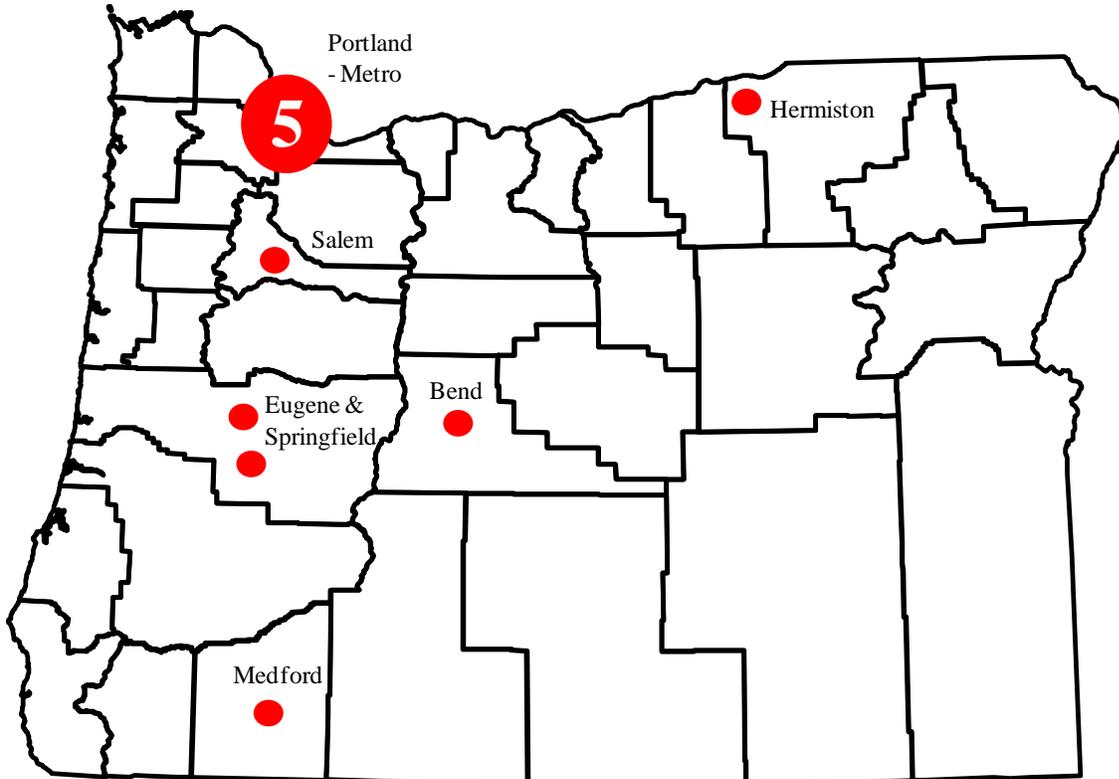


Figure 2. Ozone Monitoring Network

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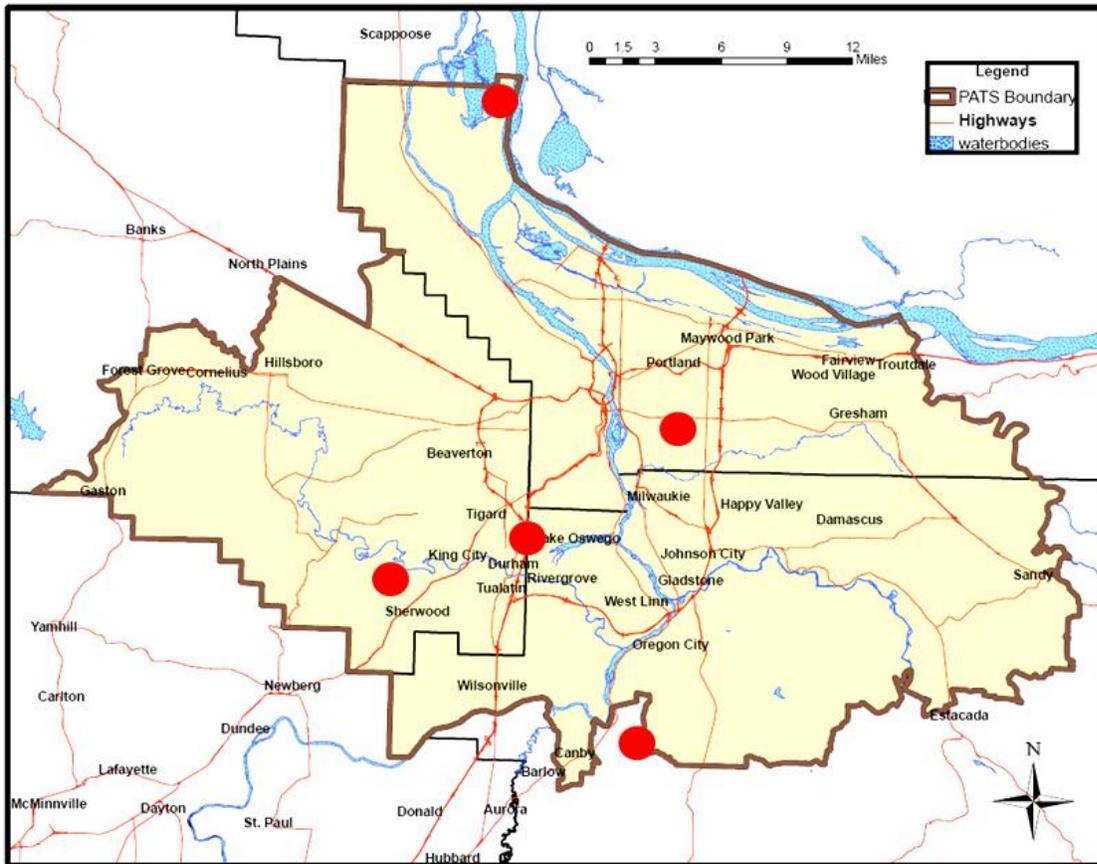


Figure 3. Portland- Metro Ozone Monitoring Sites.

Changes to the Ozone network in the past year

1) Ozone was added to the Near Roadway site in 2014. The site is next to Interstate-5 and will measure the influence of heavy traffic on ozone. The ozone is co located with other pollutant monitors so the interaction of the different pollutants can be measured.

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3.2.2 Nitrogen Dioxide Network

Oregon DEQ has two monitoring sites both in the Portland-Metro area. One is a community scale site located in SE Portland. The other is the near roadway site which measures vehicle contributions to NO₂. LRAPA has no monitoring sites.

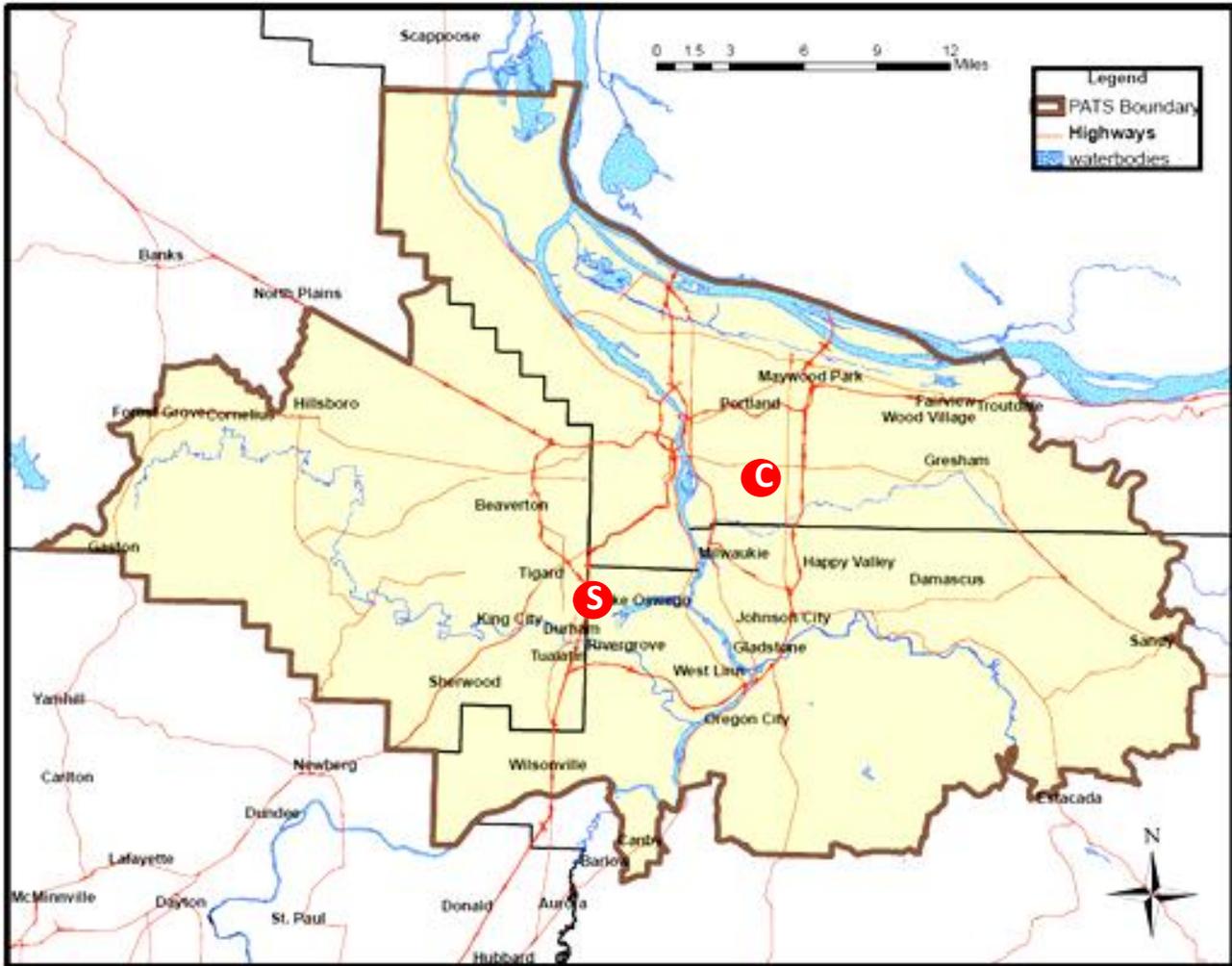


Figure 4. NO₂ Monitoring Network
S = Source monitor (measuring I-5)
C = Community monitor (Measuring in neighborhood)

Changes to the NO₂ network in the past year

1) NO₂ was added to the Near Roadway site in 2014. The site is source oriented and is located next to Interstate-5. It measures the contribution of heavy traffic to NO₂ pollution. The NO₂ is collocated with other pollutant monitors so the interaction of the different pollutants can be measured.

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3.2.3 Carbon monoxide Network

Oregon DEQ has two monitoring sites both in the Portland-Metro area. One is a community scale site located in SE Portland. The other is the near roadway site which measures vehicle contributions to CO.

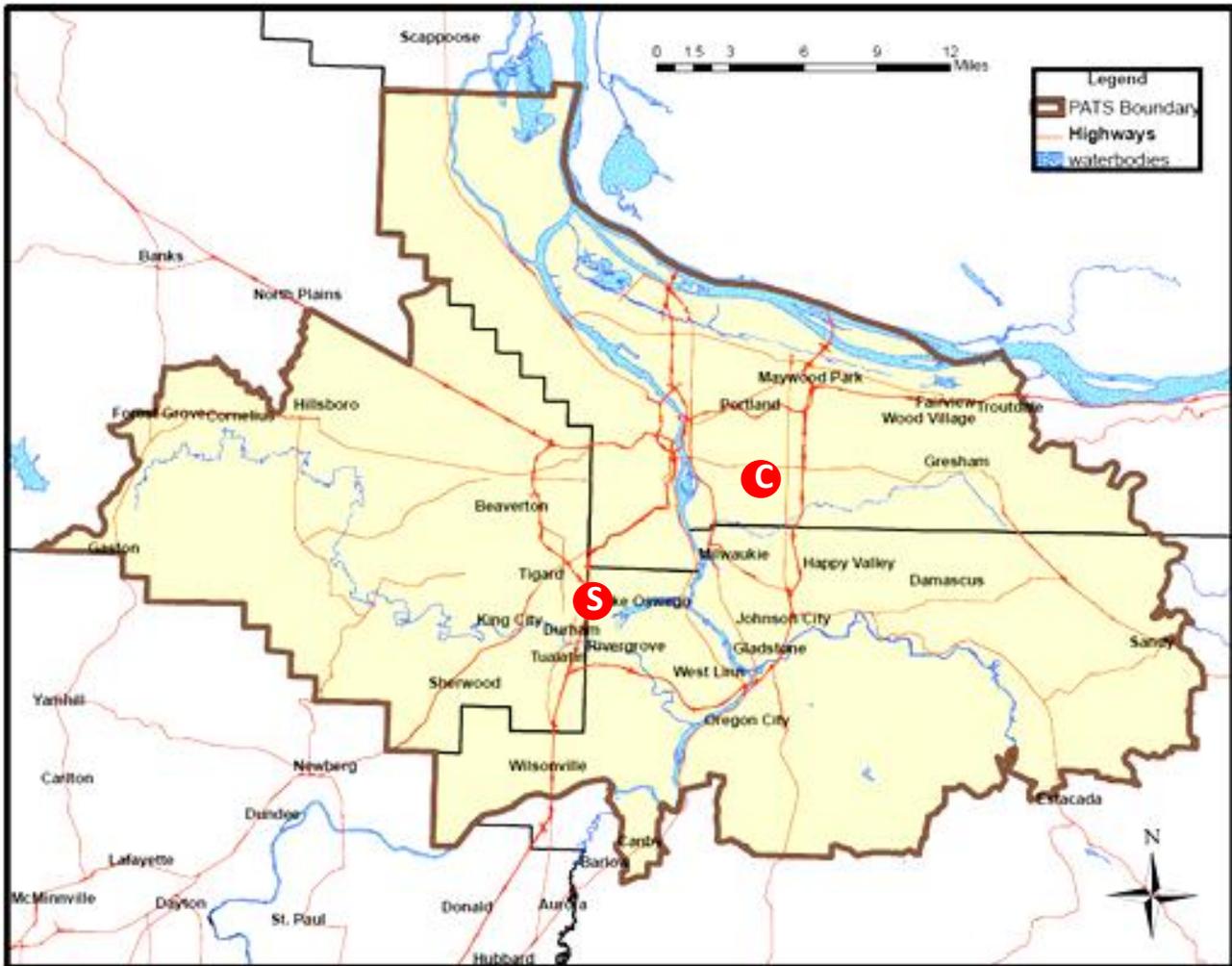


Figure 5. CO Monitoring Network

S = Source monitor (measuring I-5)

C = Community monitor (Measuring in neighborhood)

Changes to the CO network in the past year

1) CO was added to the Near Roadway site in 2014. The site is next to Interstate-5 and will measure the contribution of heavy traffic to NO₂ pollution. The CO is co located with other pollutant monitors so the interaction of the different pollutants can be measured.

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3.2.4 PM2.5 Network

Oregon DEQ and LRAPA have 11 Federal Reference Monitoring (FRM) sites. Three in the Portland-Metro area, three in Eugene-Springfield, and one each in Oakridge, Cottage Grove, Grants Pass, Medford, Klamath Falls, Lakeview, and Prineville.

2014 DEQ & LRAPA FRM PM2.5 Network

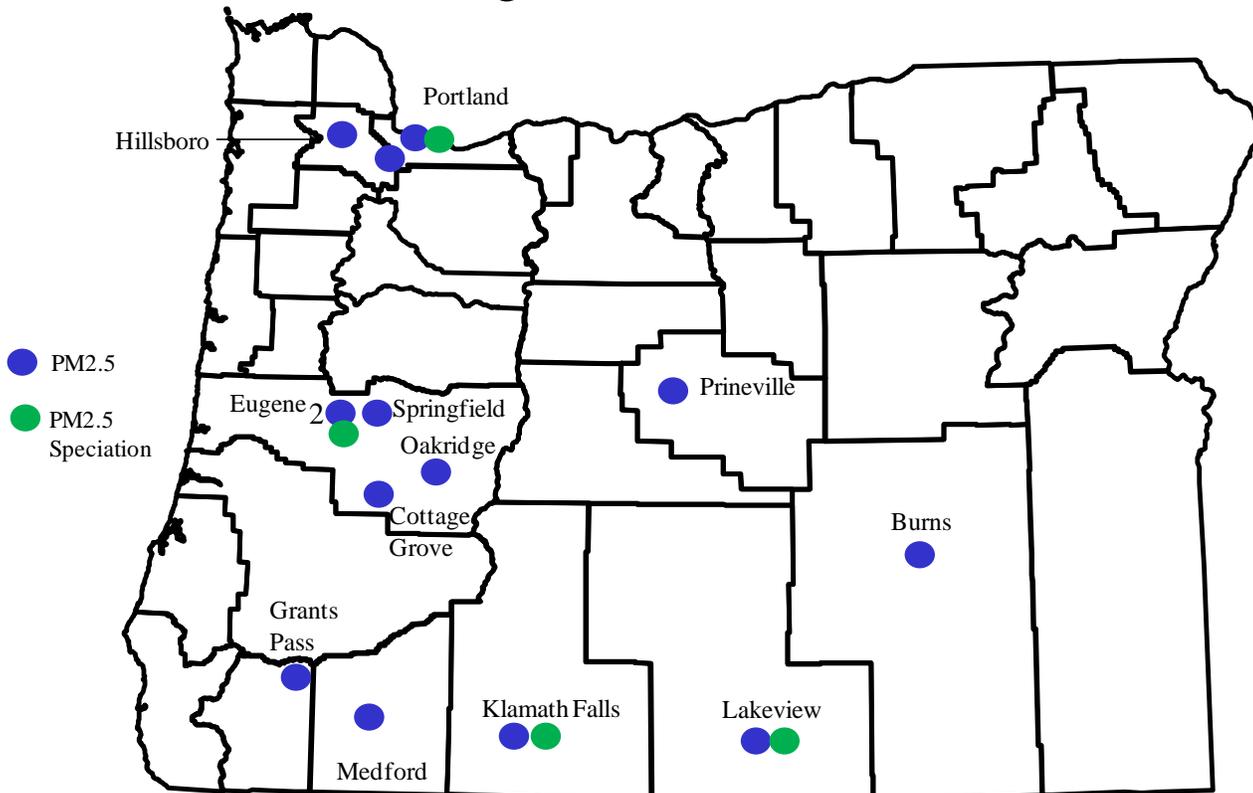


Figure 6. PM2.5 Monitoring Network

Changes to the PM2.5 network in the past year

1) PM2.5 was added to the Near Roadway site in 2014. The site is next to Interstate-5 and will measure the contribution of heavy traffic to PM2.5 pollution. The PM2.5 is co located with other pollutant monitors so the interaction of the different pollutants can be measured.

2) The PM2.5 Federal Reference Method monitor was discontinued in Pendleton because the values were low enough that Pendleton was not in danger of violating the standard. DEQ will continue to monitor using the non-Federal Reference Monitor and if the values climb toward the standard, we may put the FRM monitor back in.

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3.2.5 PM10 Network

Oregon DEQ and LRAPA have seven Federal Reference monitoring sites. Three are in the Portland-Metro area, one each in Eugene-Springfield, Oakridge, Medford, and La Grande.

2014 DEQ & LRAPA FRM PM10 Network

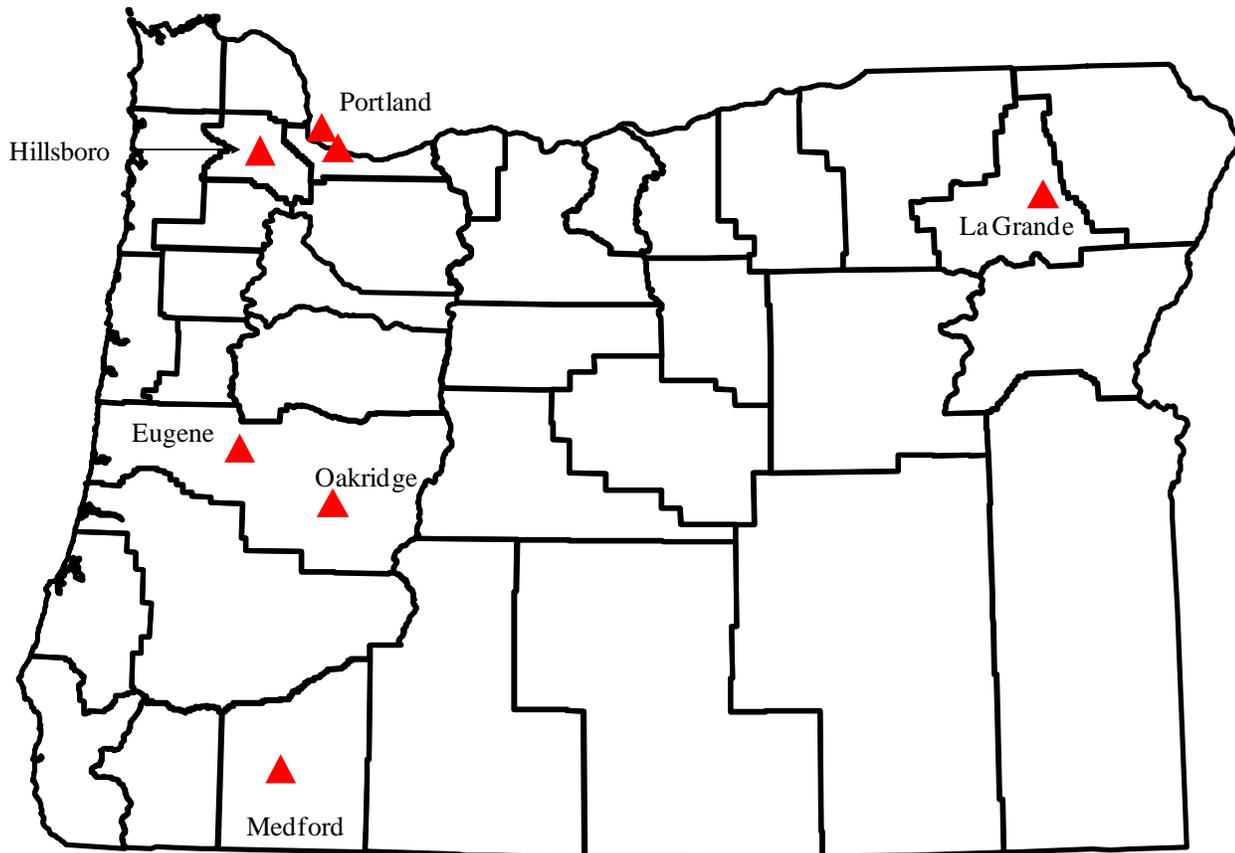


Figure 7. PM10 Monitoring Network

Changes to the PM10 network in the past year

- 1) The PM10 monitor in White City was discontinued because the levels were less than $\frac{1}{2}$ the standard and Medford already had a PM10 monitor at Welch & Jackson.
- 2) The PM10 monitor in Portland at NW 26th was discontinued because the levels were less than $\frac{1}{2}$ the standard and Portland already had two other PM10 monitors, one at SE Lafayette and one at N. Roselawn.

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3.2.6 PM10-2.5 Network

Oregon DEQ has one PM10-2.5 Federal Reference monitoring site, and it is in Portland. LRAPA has two collocated PM10 and PM2.5 monitors that are used for PM10-2.5 for informational purposes, one in Eugene and one in Oakridge. LRAPA PM10-2.5 is not required by EPA and changes to these data are not subject to EPA approval.

2014 DEQ & LRAPA FRM PM10-2.5 Network

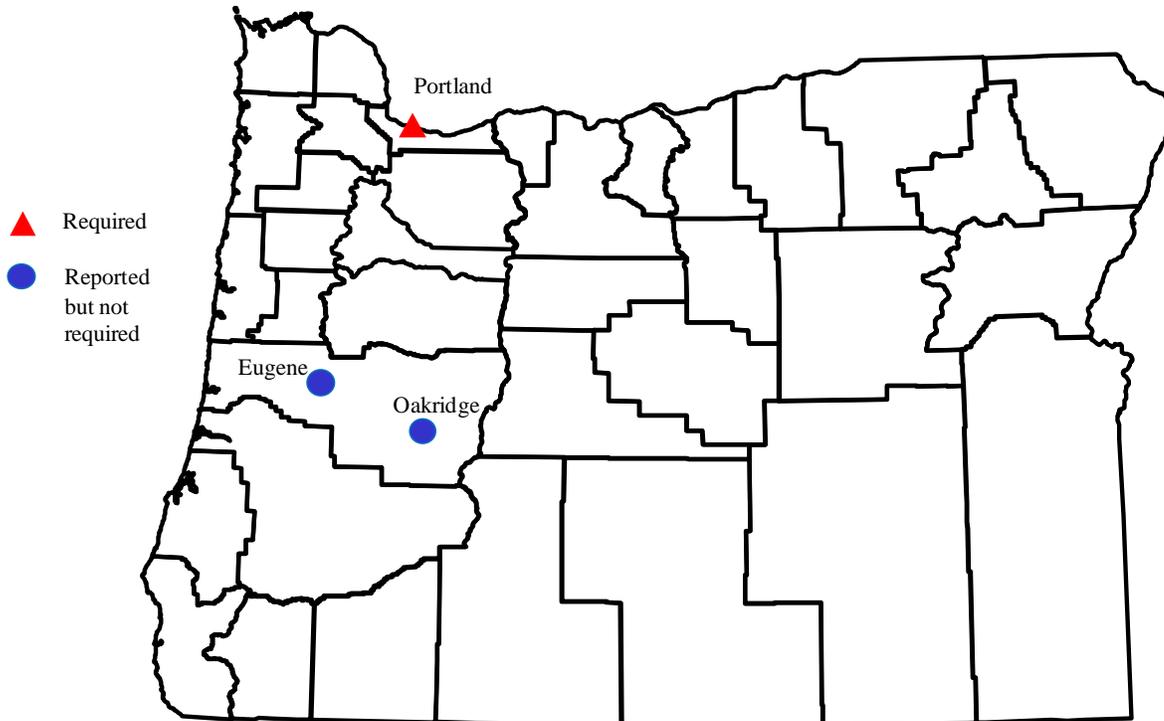


Figure 8. PM10-2.5 Network

Changes to the PM10-2.5 network in the past year: No changes.

3.2.7 PM10 Lead Network

Oregon has one Federal Reference monitoring site, and it is in Portland.

Changes to the PM10 network in the past year: No changes.

3.2.8 Sulfur Dioxide (SO₂) Network

Oregon has one SO₂ site, and it is in Portland. The site is for community monitoring. There are no sources in Oregon that require SO₂ monitoring at this time.

Changes to the SO₂ network in the past year: No changes.

3.3 Overview of Non- Federal Reference Monitoring

3.3.1 Air Toxics Network

Oregon DEQ has two National Air Toxics Trends sites, one in N. Portland and one in La Grande. In addition, Oregon has one air shed assessment site which is currently in Hillsboro. The purpose of this site is to move around the state assessing the air toxics levels in different communities. The Trend sites are funded by EPA and DEQ needs EPA approval to make any changes to the approved monitoring. The assessment site is state funded and DEQ does not need EPA approval to move or change the monitoring. DEQ will submit any changes to the assessment site in the Annual Network Plan for public comment and input.

2014 DEQ & LRAPA Air Toxics Network

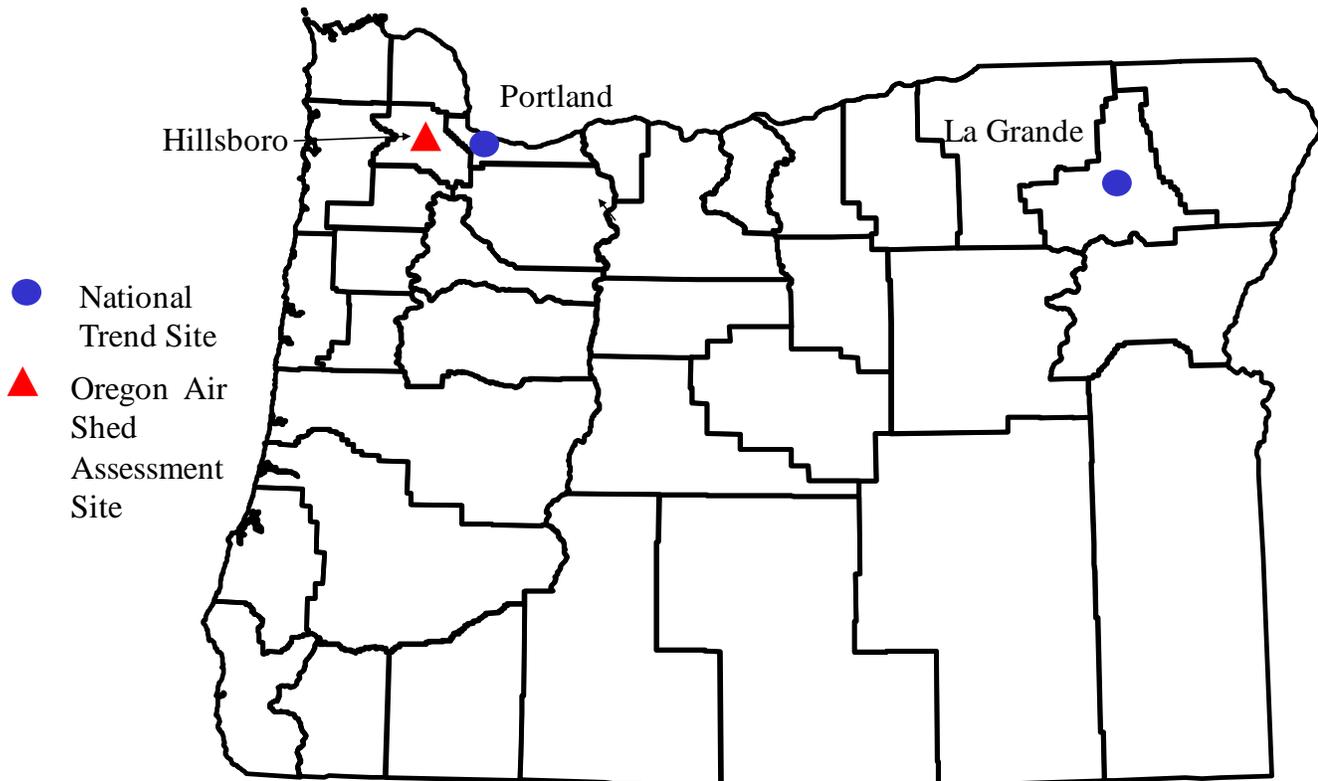


Figure 9. Air Toxics Network

Changes to the air toxics network in the past year: No changes.

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3.3.2 PM2.5 Air Quality Index Network

Oregon has a network of PM2.5 real time monitors that are used for hourly reporting of air quality for the Air Quality Index (AQI). The AQI is used by health officials, forestry mangers, and the public to get timely information about air quality health levels. The data is also sent to EPA's AIRNow AQI web page which combines all the states and tribal AQIs in one place. The AQI data is also loaded to the Oregon Smoke Blog which provides emergency information during forest fire smoke inundations.

Oregon and LRAPA have 28 annual PM2.5 AQI sites and an additional nine summer AQI sites. DEQ partners with other government agencies to provide AQI information and sharing resources. Around 10 of these sites are funded by the USFS and BLM. Three of these summer sites are funded by the Oregon Dept. of Ag. for field burning. One summer site each is funded by Jefferson and Union Counties for field burning. DEQ does not need to request EPA approval for changes to non-EPA funded AQI sites but will submit any changes in the Annual Network Plan for public comment and input.

2014 DEQ & LRAPA Air PM2.5 Quality Index Network

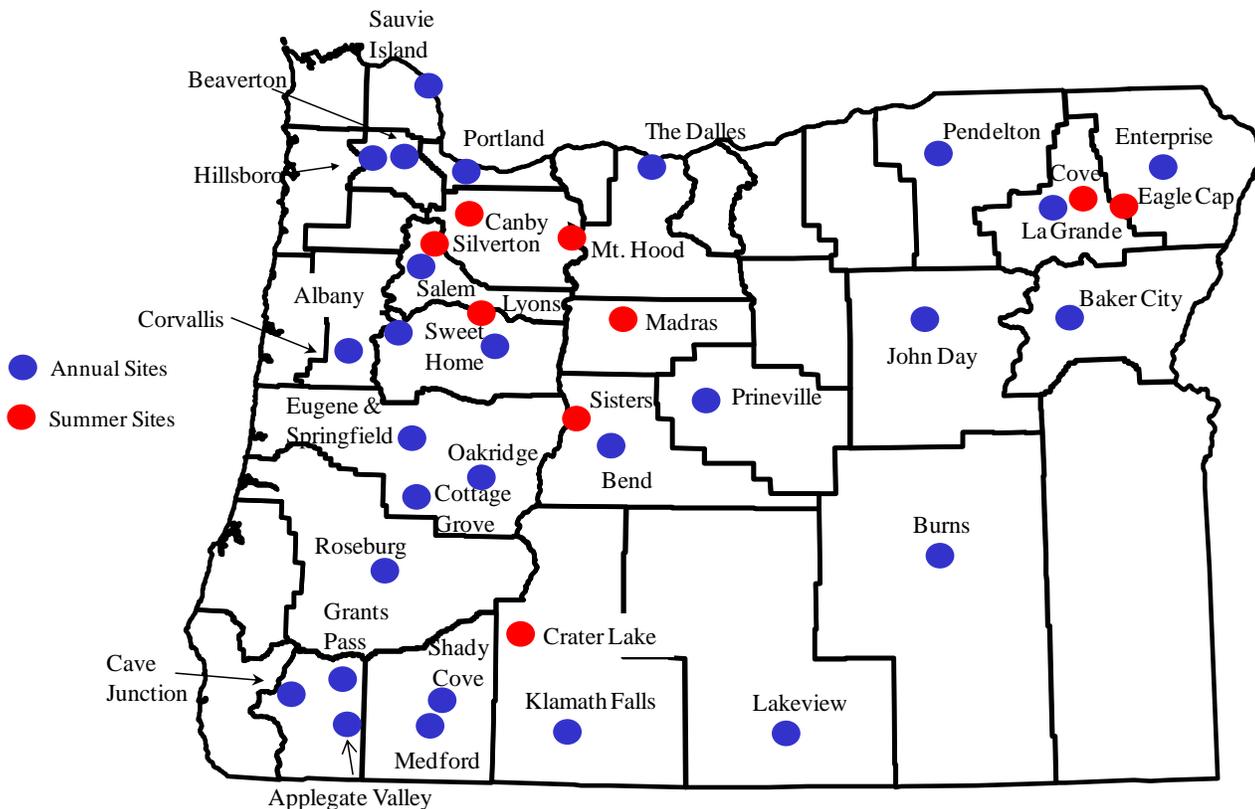


Figure 10. PM2.5 AQI Network

Changes to the PM2.5 AQI Network in the past year: No changes.

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3.3.3 Meteorology Network

Oregon DEQ and LRAPA operate a meteorology (met) network in support of the criteria and air toxics pollutant networks. The met network provides modelers, forecasters, and local health officials with information on origin of pollutant emissions and pollutant movement. DEQ does not need to request EPA approval for changes to met network sites but will submit any changes in the Annual Network Plan for public comment and input.

2014 DEQ & LRAPA Meteorology Network

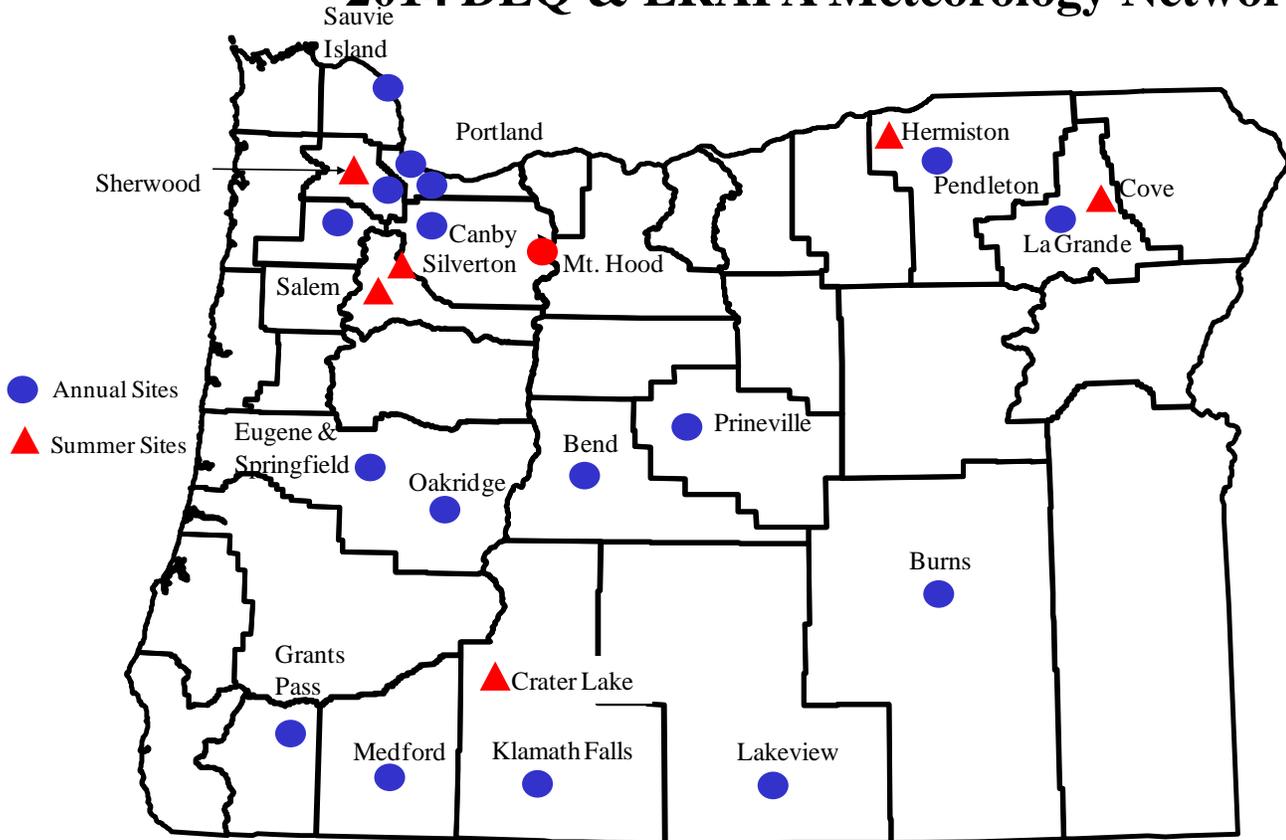


Figure 11. Meteorology Network

Changes to the PM2.5 AQI Network in the past year: No changes.

4. Planned Changes to Network

All major modifications to the ambient air quality monitoring network are submitted to the regional administrator for review and approval in the network assessment.

4.1 Changes to the PM_{2.5} Monitoring Network

The Burns, Washington St site (41-025-0003) had a 2011-2013, three year average 98 percentile value < 5% below the daily standard. According to CFR40Part 58.12 d(1)(iii) any area <5% of the standard must have federal reference method monitoring on a daily frequency. To meet this requirement, the monitoring frequency for Burns will be changed from every third day to every day starting in 2015.

4.2 Changes to the Air Toxics Monitoring Network

4.2.1 N. Portland, Near Swan Island

DEQ will install and operate one full air toxics assessment monitor in N. Portland near Swan Island and one air toxics metal site in St. Johns in N. Portland. This monitoring will be supported with eight wind speed and wind direction sites. This is being done to assess the air toxics levels near Swan Island, St. John industry, and NW Portland industrial area and the surrounding neighborhoods. This monitoring will operate for one year and is funded by the Oregon Legislature. Since EPA is not funding this site, DEQ is not seeking comment from EPA. We include it in the annual network plan to notify EPA and to seek public comment and input. Note: This data will be reported to EPA.

4.2.2 Assessment Monitor

DEQ plans to move our air toxics assessment monitor from Hillsboro to Gresham in the spring of 2015. Hillsboro will have two years of data by that time which is adequate to assess its airshed in the neighborhoods around Hare Field. Gresham was identified in the 2010 five year Network Plan as the next city to be assessed after Hillsboro based on the Portland Air Toxics model, population, population growth, and environmental justice demographics. The monitor is planned to run for one year. Since EPA is not funding this site, DEQ is not seeking comment from EPA. We include it in the annual network plan to notify EPA and to seek public comment and input.

4.3 Other Changes to Monitoring Networks

No other changes are planned to the network in the next year. If unexpected changes are needed to EPA funded or required monitoring, DEQ will submit the planned changes for public comment for 30 days than to EPA for approval.

Appendix A. Minimum Monitoring Requirements

DEQ and LRAPA meet the minimum monitoring requirements for all criteria pollutants measured as established in 40 CFR 58. The tables in Appendix A list the criteria used to determine compliance with federal regulations.

The minimum requirements tables:

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Table A 1. Minimum Monitoring Requirements for **NCORE Site**.

NCORE Site: SE Lafayette (SEL), AQS# 41-051-0080, Address 57 th Avenue and SE Lafayette St., Portland, OR MSA – Portland-Vancouver, OR-WA (#6440) Counties represented – (OR) Multnomah, Clackamas, Washington, (WA) Clark MSA Population (2013)* - 2,292,725								
Pollutant	Std Type	Std	DV	Units	Years	# of Monitors		
						Minimum required	Active	needed
PM _{2.5}	Daily	35	29.1	µg/m ³	2011-13	1	1	0
	Annual	12	8.1	µg/m ³	2011-13			
PM _{2.5} Speciation	N/A	-	-	-	-	1	1	0
PM _{10-2.5}	N/A	-	-	-	-	1	0	1
PM _{2.5} Continuous estimate	N/A	-	-	-	-	0	1	0
PM ₁₀	Daily	150	43	µg/m ³	2013	1	1	0
PM _{10-2.5}	N/A	-	-	-	-	1	1	0
PM ₁₀ lead	Annual	0.15		µg/m ³	2013	1	1	0
Ozone	8 hr Ave	75	57	ppb	2011-13	1	1	0
NO ₂	1 hour	100	33	ppb	2013	1	1	0
	Annual	53	10	ppb	2013			
NO _x (substituted for NO _y - EPA waiver)	N/A	-	-	-	-	1	1	0
Trace SO ₂	1 hour	75		ppb	2013	1	1	0
Trace CO	8 hour	9		ppm	2013	1	1	0
Wind Direction	N/A	-	-	-	-	1	1	0
Wind Speed	N/A	-	-	-	-	1	1	0
Relative Humidity	N/A	-	-	-	-	1	1	0
Solar Radiation	N/A	-	-	-	-	0	1	0
Barometric Press	N/A	-	-	-	-	0	1	0
Outdoor Temp	N/A	-	-	-	-	1	1	0
Delta Temp	N/A	-	-	-	-	0	1	0

*MSA Population (2013) from Portland State University, College of Urban and Public Affairs, Population Research Center

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Table A 2. Ozone Minimum Monitoring Requirements

MSA	County	Population	DV (ppb)	Site name	Season	Years	# of Monitors		
							Minimum required	Active	needed
Portland-Vancouver, OR-WA (#6440)	Multnomah, Clackamas, Washington,	2,292,725	62	Carus (41-005-0004)	May-Sept	2011-13	1	4 in OR, 1 in WA	0
Salem (#7080)	Marion	399,945	58	Cascade Sch. Turner (41-047-0004)	May-Sept	2011-13	1	1	0
Eugene-Springfield (#2400)	Lane	356,125	59	Saginaw (41-039-1007)	May-Sept	2011-13	1	2	0
Bend-Redmond (0000)	Deschutes	162,525	58	Bend Rd Dept (41-017-0121)	May-Sept	2011-13	0	1	0
Medford-Ashland (#4890)	Jackson	206,310	63	Talent (41-029-0201)	May-Sept	2011-13	0	1	0
Hermiston (0000)	Umatilla	17,240	62	Airport (41-059-1003)	May-Sept	2011-13	0	1	0
Corvallis (#1890)	Benton	87,725	-	-	-	-	0	0	0
Albany (CBSA#24420)	Linn	118,665	-	-	-	-	0	0	0
Grants Pass (CBSA#10540)	Josephine	82,815	-	-	-	-	0	0	0

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Table A 3. Carbon Monoxide Minimum Monitoring Requirements:

MSA (Maintenance areas)	County	Population	Standard Exceeded more than once per year	Site name	Last Year	# of Monitors		
						Minimum required	Active	needed
Portland-Vancouver, OR-WA (#6440) (Portland Metropolitan Service District Boundary)	Multnomah, Clackamas, Washington, Clark (WA)	2,292,725	No	SE Lafayette, Portland (41-051-0080)	2013	2	2	0
Salem (#7080) (Salem-Kaiser Transportation Area)	Marion	399,945	No	-	2005	0	0	0
Medford-Ashland (#4890) (Medford Urban Growth Boundary)	Jackson	206,310	No	Monitor CO with modeling	2009	0	0	0
Klamath Falls (#0000) (Klamath Falls Urban Growth Boundary)	Klamath	21,495	No	-	2004	0	0	0
Grants Pass (CBSA#10540) (Grants Pass Central Business District)	Josephine	82,815	No	-	2005	0	0	0

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NO2 Minimum Monitoring Requirements:

EPA requires NO2 near roadway monitoring in CBSAs above 500,000. The monitoring is to be next to a freeway at a location with the highest annual average daily traffic and highest heavy duty diesel traffic. Portland-Vancouver is the only CBSA in Oregon required to have near road NO2 monitoring. In addition, EPA requires one neighborhood or larger spatial scale monitoring in CBSA's above one million. The Portland-Vancouver is the only CBSA in Oregon required to have community scale monitoring. The NCORE site is required to have NO2, NO, NOx, and NOy monitoring. The NCORE site is in Portland and doubles as the community scale site for NO2. EPA granted a waiver under CFR40 Part 58 Appendix D, Seciton 3 (b.1) to allow NOx to substitute for NOy because DEQ showed there was minimal difference between the two. The table below shows the current monitoring status.

Table A 4. NO2, NO, NOx Minimum Monitoring Requirements:

MSA	County	Population	DV (ppb)	% of Std	Site name	Season/ Frequency	Years	# of Monitors		
								Minimum required	Active	needed
Portland-Vancouver, OR-WA (#6440)	Multnomah, Clackamas, Washington,	2,292,725	1hr= 34ppb Annual = 9ppb	1hr= 34% Annual= 17%	Portland, SE Lafayette (41-005-0080) Portland-Tualatin, (41-067-0005)	Annual, Hourly	2013	2	2	0
			-	-	Near Roadway Site (41-067-0005)	Annual, Hourly	2014	1	1	0

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SO2 Minimum Monitoring Requirements:

EPA devised the Population Weighted Emissions Index to determine where SO2 monitoring is needed. This combines population and SO2 emission estimates. Oregon only had one MSA with a PWEI which required monitoring, Portland-Vancouver. The location measures population exposure in the CBSA which meets the minimum spatial siting requirement. The NCORE site also requires trace SO2 monitoring. The NCORE site is also the PWEI site and operates with a trace SO2 monitor meeting both criteria. The table below shows the current monitoring status.

Table A 5. SO2 Minimum Monitoring Requirements:

MSA	County	Population	DV ppb	% of Std	Site name	Season/ Frequency	Years	# of Monitors		
								Minimum required	Active	needed
Portland- Vancouver, OR-WA (#6440)	Multnomah, Clackamas, Washington	2,292,725	6	8	Portland, SE Lafayette (41-005-0080)	Annual, Hourly	2013	1	1	0

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Lead: Minimum Monitoring Requirements:

EPA requires TSP lead monitoring at any source with an annual plant site emission limit of over 1/2 ton/year. In Oregon only one source meets this criteria, Cascade Rolling Mills in McMinnville. DEQ did fence line monitoring at Cascade Rolling Mills for three years (2010-2012) and determined the levels were less than 1/2 the standard. With these low values and other resource needs, DEQ asked for and received a waiver under CFR40 Part 58 Appendix D, Section 4.5(i) from EPA to suspend monitoring. This waiver will need to be renewed in 2017.

EPA requires monitoring at airports with emission estimates greater than 1 ton/yr CFR40 Part 58 Appendix D, Section 4.5(iii). No airports in Oregon have estimated lead emissions of over 1 ton/yr. EPA is working with the FAA to find a safe substitute for lead in aviation fuel so all airports no matter how small will be free from lead from aviation fuel .

CFR40 Part 58 Appendix D, Section 4.5(b) requires one non-source oriented lead monitor at the NCORE site in CBSAs of over 500,000. Oregon has one site. The table below shows the current monitoring status.

Table A 6. Lead Minimum Monitoring Requirements:

MSA	County	Population	DV µg/m ³	% of Std	Site name	Season/ Frequency	Years	# of Monitors		
								Minimum required	Active	needed
Portland- Vancouver, OR-WA (#6440)	Multnomah, Clackamas, Washington	2,292,725	0.005	3%	Portland, SE Lafayette (41-005-0080)	Annual, 1/3 at NCORE	2013	1	1	0
McMinnville*	Yamhill	32,510	0.045	30%	Hwy 99 (41-039-0059)	1/6	2010-12	0	0	0

* EPA granted a waiver to discontinue McMinnville lead because its three year average was less than 1/2 the NAAQS and the operating funds were needed at the NO2 roadway site. The Portland lead monitoring is not eligible for a waiver even though it is only 3% of the NAAQS.

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PM10 Minimum Monitoring Requirements:

PM10 has dropped significantly since the 1980s when numerous Oregon communities were in non-attainment. These communities are now all under maintenance plans and many have EPA waivers to discontinue PM10 and use PM2.5 as a surrogate. This was done because PM10 is mostly comprised of PM2.5 and the PM10 levels are far below the standard.

Table A 7. PM10 Minimum Monitoring Requirements:

MSA	County	Population	Exceedence/ yr	Site name	Season/ Frequency	Years	# of Monitors		
							Minimum required	Active	needed
Portland-Vancouver, OR-WA (#6440)	Multnomah, Clackamas, Washington,	2,292,725	0	SE Lafayette (41-005-0080) N. Roselawn (41-051-0246) Hillsboro (41-067-0004)	Annual, 1/3 at NCORE & 1/6 other sites	2011-13	2-4	3	0
Eugene-Springfield (#2400)	Lane	356,125	0	Hwy 99 (41-039-0059)	Annual 1/6	2011-13	1	3	0
La Grande (#0000)	Union	13,125	0	Ash St. (41-067-0119)	Annual, 1/6	2011-13	1	1	0
Oakridge (#0000)	Lane	3,215	0	Oakridge (41-039-2013)	Annual 1/6	2011-13	1	1	0
Medford-Ashland (#4890)	Jackson	206,310	0	Grant & Belmont (41-029-2129)	Annual, 1/6	2011-13	1	1	0
Grants Pass (CBSA#10540)	Josephine	82,815	0	Parkside School (41-033-0114)	PM2.5 as surrogate	2011-13	1	0	0*
Klamath Falls (#0000)	Klamath	21,495	0	Klamath Falls Petersen Sch. (41-035-0004)	PM2.5 as surrogate	2011-13	1	0	0*

* PM2.5 is used as a surrogate for PM10

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Table A 8. PM_{2.5} (FRM) Minimum Monitoring Requirements:

MSA	County	Population	DV μg/m ³	% of Std	Site name	Season/ Frequency	Years	# of Monitors		
								Minimum required	Active	needed
Portland- Vancouver, OR-WA (#6440)	Multnomah, Clackamas, Washington	2,292,725	32.3	91	Hillsboro Hare Field (41-067-0004)	Annual 1/3	2011-13	3	3	0
Eugene- Springfield (#2400)	Lane	356,125	28.4	80	Hwy 99 (41-039-0059)	Annual 1/3	2011-13	1	3	0
Cottage Grove (#0000)	Lane	9,785	22.9	65	City Shops (41-039-9004)	Annual 1/3	2011-13	0	1	0
Oakridge (#0000)	Lane	3,215	40.5	114	Oakridge (41-039-2013)	Annual 1/3	2011-13	0	1	0
Medford- Ashland (#4890)	Jackson	206,310	34.4	97	Medford, Grant & Belmont (41-029-2129)	Annual 1/3	2011-13	1	1	0
Grants Pass (CBSA#10540)	Josephine	82,815	26.7	75	Parkside Sch. (41-033-0114)	Annual 1/6	2011-13	0	1	0
Klamath Falls (#0000)	Klamath	21,495	39.2	111	Petersen Sch. (41-035-0004)	Annual 1/3	2011-13	0	1	0
Lakeview (#0000)	Lake	7,940	56.0	158	Lakeview (41-037-0001)	Annual 1/3	2011-13	0	1	0
Burns-Hines (#0000)	Harney	4,395	34.8	98	Washington Park (41-025-0003)	Annual 1/3	2011-13	0	1	0
Prineville (#0000)	Crook	9,270	38.5	109	Davidson Park (41-013-0100)	Annual 1/3	2011-13	0	1	0

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AQI (Non-FRM – Informational data). There is no minimum requirement but this type of monitoring allows DEQ to monitor the rest of the state. If a design value is near or above the NAAQS, DEQ considers placing a FRM sampler at the site for comparison to the NAAQS.

Table A 9. PM2.5 for AQI (Non-FRM) site information

MSA	County	Population	DV ($\mu\text{g}/\text{m}^3$)	% of Std	Site name	Season/ Frequency	Years	# of Monitors		
								required	Active	needed
Salem-Kaiser (#7080)	Marion	399,945	25	70	State Hospital (41-047-0041)	Annual, Hourly	2011-13	0	0	0
Bend-Redmond (#0000)	Deschutes	162,525	18.6	52	Bend Rd Dept (41-017-0121)	Annual, Hourly	2011-13	0	0	0
Albany (CBSA#24420)	Linn	118,665	23.3	66	Calapooia Sch. (41-043-0009)	Annual, Hourly	2011-13	0	0	0
Corvallis (#1890)	Benton	87,725	20.4	57	Intermediate Sch. (41-003-0013)	Annual, Hourly	2011-13	0	0	0
Roseburg (#0000)	Douglas	35,605	19.4	55	Forest Service Off (41-019-0002)	Annual, Hourly	2011-13	0	0	0
The Dalles (#0000)	Wasco	14,440	22.5	63	Cherry Heights (41-065-0007)	Annual, Hourly	2011-13	0	0	0
La Grande (#0000)	Union	13,125	26.9	76	Ash St. (41-061-0119)	Annual, Hourly	2011-13	0	0	0
Baker City (#0000)	Baker	9,890	21.2	60	Forest Service Off (41-001-0003)	Annual, Hourly	2011-13	0	0	0
Sweet Home (#0000)	Linn	9,065	22.1	62	Fire Dept (41-043-2002)	Annual, Hourly	2011-13	0	0	0
Sisters (#0000)	Deschutes	2,115	18.0	51	Forest Service Off (41-017-0004)	Annual, Hourly	2012-13	0	0	0
Enterprise (#0000)	Wallowa	1,940	20.2	57	Forest Service Off (41-063-0001)	Annual, Hourly	2011-13	0	0	0
Cave Junction (#0000)	Josephine	1,905	33.8*	95	Forest Service Off (41-033-0036)	Annual, Hourly	2011-13	0	0	0
John Day (#0000)	Grant	1,745	30.9	87	Forest Service Off (41-063-0001)	Annual, Hourly	2011-13	0	0	0

Appendix B. Collocation Requirements

PM10, PM2.5, and lead are subject to the collocation requirements described in 40 CFR Part 58, Appendix A, Section 3. These requirements apply at the Primary Quality Assurance Organization levels and DEQ is the PQA for Oregon. DEQ and LRAPA use method 118 and 145 for SLAMS, PM2.5 FRM samplers. LRAPA has one collocated site for 145 and DEQ has one for 118. DEQ and LRAPA use method 127 and 063 for PM10 samplers. DEQ has one collocated site for each of these methods. PM10 lead monitoring is only done at one site, and DEQ has one collocated monitor for this.

Table B 1. Collocation Requirements for PM2.5

Method Code	# of Primary monitors	# of Required Collocated Monitors	# Active Collocated Monitors	# Active Collocated FEM monitors (Same method designation as primary)
118	6	1	1	0
145	5	1	1	0

Table B 2. Collocation Requirements for PM10

Method Code	# of Primary monitors	# of Required Collocated Monitors	# Active Collocated Monitors	# Active Collocated FEM monitors (Same method designation as primary)
127	3	1	1	0
063	3	1	1	0

Table B 3. Collocation Requirements for PM10 lead

Method Code	# of Primary monitors	# of Required Collocated Monitors	# Active Collocated Monitors	# Active Collocated FEM monitors (Same method designation as primary)
811	1	1	1	0

Appendix C. Detailed Site Information

This appendix present detailed site information required by 40CFR Part 58.

Table C 1. List of Sites in Appendix

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Table C 2. Portland, SE Lafayette Site Information

Local Site Name	Portland, SE Lafayette	
AQS ID	41-051-0080	
GPS Coordinates	45.4966, -122.6029	
Street address	5824 SE Lafayette, Portland, OR	
County	Multnomah	
Distance from roadways (meters)	80	
Traffic count (AADT, yr)	AADT = 23,500, Yr= 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA,)	Portland-Vancouver (#6440)	
Pollutant	PM2.5	PM10
Parameter code, POC	88101,1	85101,1 & 81102,1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS, NCORE, AQI	NAAQS, NCORE, AQI
Monitoring Objective	Population, Non-source	Population, Max Non-source
Spatial scale of Representativeness	Neighborhood	Neighborhood
Monitoring types	SLAMS/NCORE	SLAMS/NCORE
Instrument type and model	R&P 2025w/ WINS	R&P 2025
Instrument parameter occurrence code	Primary	Primary
Method number	118	127
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/1/1999	1/1/1984
Current sampling frequency	1/3	1/3
Sampling season	Annual	Annual
Probe height (meters)	6	6
Distance from supporting structure (meters)	No supports	No supports
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	22	22
Distance from to furnace or incinerator flue (meters)	7	7
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Aluminum	Aluminum
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

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Local Site Name	Portland, SE Lafayette	
AQS ID	41-051-0080	
GPS Coordinates	45.4966, -122.6029	
Street address	5824 SE Lafayette, Portland, OR	
County	Multnomah	
Distance from roadways (meters)	80	
Traffic count (AADT, yr)	AADT = 23,500 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	PM10	PM10-2.5, 1
Parameter code, POC	85101,2 & 81102,2	86101,1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS	NCORE
Monitoring Objective	Urban Population, Max concentration, Non-source	Urban, Population, Non-source
Spatial scale of Representativeness	Neighborhood	Neighborhood
Monitoring types	SLAMS/NCORE	NCORE
Instrument type and model	R&P 2025	R&P 2025
Instrument parameter occurrence code	Collocated	Primary
Method number	127	176
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	7/1/2013	1/1/2010
Current sampling frequency	1/3	1/3
Sampling season	Annual	Annual
Probe height (meters)	6	6
Distance from supporting structure (meters)	No supports	No supports
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	22	22
Distance from to furnace or incinerator flue (meters)	7	7
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Aluminum	Aluminum
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

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Local Site Name	Portland, SE Lafayette	
AQS ID	41-051-0080	
GPS Coordinates	45.4966, -122.6029	
Street address	5824 SE Lafayette, Portland, OR	
County	Multnomah	
Distance from roadways (meters)	80	
Traffic count (AADT, yr)	AADT = 23,500 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	PM10 Lead	Ozone
Parameter code, POC	85129, 1	44201, 1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS, NCORE, AQI	NAAQS, AQI
Monitoring Objective	Population, Non- source oriented, NCORE	Population, Non-source
Spatial scale of Representativeness	Neighborhood	Urban
Monitoring types	SLAMS/NCORE	SLAMS/NCORE
Instrument type and model	R&P 2025	TECO 49C
Instrument parameter occurrence code	Primary	Primary
Method number	811	047
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/1/2012	7/10/2003
Current sampling frequency	1/3	Hourly
Sampling season	Annual	Annual
Probe height (meters)	6	5
Distance from supporting structure (meters)	No supports	1.5
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	22	24
Distance from to furnace or incinerator flue (meters)	7	9
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Aluminum	Teflon
Residence time for reactive gases (seconds)	NA	3.5
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

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Local Site Name	Portland, SE Lafayette	
AQS ID	41-051-0080	
GPS Coordinates	45.4966, -122.6029	
Street address	5824 SE Lafayette, Portland, OR	
County	Multnomah	
Distance from roadways (meters)	80	
Traffic count (AADT, yr)	AADT = 23,500 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	NO₂	NO_x
Parameter code, POC	42602, 1	42603, 1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS, NCORE	Information, NCORE
Monitoring Objective	Population, Urban, Non-source	Population, Urban, Non-source
Spatial scale of Representativeness	Urban	Urban
Monitoring types	SLAMS/NCORE	NCORE
Instrument type and model	Ecotech – EC9841A	Ecotech – EC9841A
Instrument parameter occurrence code	Primary	Primary
Method number	590	590
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	01/01/1984	01/01/1984
Current sampling frequency	Hourly	Hourly
Sampling season	Annual	Annual
Probe height (meters)	6.3	6.3
Distance from supporting structure (meters)	2.7	2.7
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	24	24
Distance from to furnace or incinerator flue (meters)	9	9
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Glass, Teflon	Glass, Teflon
Residence time for reactive gases (seconds)	4.9	4.9
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	NA

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Local Site Name	Portland, SE Lafayette	
AQS ID	41-051-0080	
GPS Coordinates	45.4966, -122.6029	
Street address	5824 SE Lafayette, Portland, OR	
County	Multnomah	
Distance from roadways (meters)	80	
Traffic count (AADT, yr)	AADT = 23,500 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	CO	SO2
Parameter code, POC	42101, 1	42401, 1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS, NCORE	NAAQS, NCORE
Monitoring Objective	Population, Non- source	Population, Non- source
Spatial scale of Representativeness	Micro	Urban
Monitoring types	SLAMS/NCORE	SLAMS/NCORE
Instrument type and model	ECO Tech EC9830T	ECO Tech EC9850T
Instrument parameter occurrence code	Primary	Primary
Method number	588	592
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	10/1/2005	2/1/2005
Current sampling frequency	Hourly	Hourly
Sampling season	Annual	Annual
Probe height (meters)	6.3	6.3
Distance from supporting structure (meters)	2.7	2.7
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	24	24
Distance from to furnace or incinerator flue (meters)	9	9
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Glass, Teflon	Glass, Teflon
Residence time for reactive gases (seconds)	3.6	3.6
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

2014 Oregon Annual Ambient Air Monitoring Network Plan

Local Site Name	Portland, SE Lafayette	
AQS ID	41-051-0080	
GPS Coordinates	45.4966, -122.6029	
Street address	5824 SE Lafayette, Portland, OR	
County	Multnomah	
Distance from roadways (meters)	80	
Traffic count (AADT, yr)	AADT = 23,500 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	SO2 5min aver.	PM2.5 Estimate
Parameter code, POC	42401, 4	88502,3
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS, NCORE	AQI
Monitoring Objective	Population, Non- source	Population, Non- source
Spatial scale of Representativeness	Urban	Neighborhood
Monitoring types	SLAMS/NCORE	Special purpose
Instrument type and model	ECO Tech EC9850T	Radiance M97 Nephelometer
Instrument parameter occurrence code	Primary	Primary
Method number	592	011
FRM/FEM/FRM/other	FRM	PM2.5 Surrogate
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	10/1/2005	
Current sampling frequency	Hourly	Hourly
Sampling season	Annual	Annual
Probe height (meters)	6.3	6
Distance from supporting structure (meters)	2.7	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	24	24
Distance from to furnace or incinerator flue (meters)	9	9
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Glass, Teflon	PVC tubing
Residence time for reactive gases (seconds)	3.6	8
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	No

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Local Site Name	Portland, SE Lafayette	
AQS ID	41-051-0080	
GPS Coordinates	45.4966, -122.6029	
Street address	5824 SE Lafayette, Portland, OR	
County	Multnomah	
Distance from roadways (meters)	80	
Traffic count (AADT, yr)	AADT = 23,500 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Wind Speed	Wind Direction
Parameter code, POC	61101,1	61104,1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NCORE, Information	NCORE, Information
Monitoring Objective	Population	Population
Spatial scale of Representativeness	Urban	Urban
Monitoring types	NCORE	NCORE
Instrument type and model	Climatronics	Climatronics
Instrument parameter occurrence code	Primary	Primary
Method number	050	020
FRM/FEM/FRM/other	Other	Other
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	7/15/1992	7/15/1992
Current sampling frequency	Hourly	Hourly
Sampling season	Annual	Annual
Probe height (meters)	16	16
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	30	30
Distance from to furnace or incinerator flue (meters)	NA	NA
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	NA	NA
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No

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Local Site Name	Portland, SE Lafayette	
AQS ID	41-051-0080	
GPS Coordinates	45.4966, -122.6029	
Street address	5824 SE Lafayette, Portland, OR	
County	Multnomah	
Distance from roadways (meters)	80	
Traffic count (AADT, yr)	AADT = 23,500 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Outdoor Temp	Relative Humidity
Parameter code, POC	62101,1	62201,1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	Information	NAAQS
Monitoring Objective	NCORE, Information	NCORE, Information
Spatial scale of Representativeness	Neighborhood	Urban
Monitoring types	NCORE	NCORE
Instrument type and model	Climatronics	Climatronics
Instrument parameter occurrence code	Primary	Primary
Method number	040	012
FRM/FEM/FRM/other	Other	Other
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	7/15/1992	11/1/2001
Current sampling frequency	Hourly	Hourly
Sampling season	Annual	Annual
Probe height (meters)	2	3
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	30	24
Distance from to furnace or incinerator flue (meters)	9	9
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	NA	NA
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No

2014 Oregon Annual Ambient Air Monitoring Network Plan

Local Site Name	Portland, SE Lafayette	
AQS ID	41-051-0080	
GPS Coordinates	45.4966, -122.6029	
Street address	5824 SE Lafayette, Portland, OR	
County	Multnomah	
Distance from roadways (meters)	80	
Traffic count (AADT, yr)	AADT = 23,500 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Chemical Speciation	
Parameter code, POC	Numerous parameters POC 6	
MSA, CBSA, CSA or area represented	6440	
Monitor purpose	Trend information, NCORE	
Monitoring Objective	Population,	
Spatial scale of Representativeness	Neighborhood	
Monitoring types	NCORE, STN	
Instrument type and model	Super SASS & URG 3000N w/Pall Quartz filter and Cyclone Inlet	
Instrument parameter occurrence code	Primary	
Method number	810,811,812,826 831,838, 839,840 841,842	
FRM/FEM/FRM/other	Other	
Collecting agency	ODEQ (0821)	
Analytical lab	ODEQ	
Reporting agency	ODEQ	
Monitoring start date	9/1/2002	
Current sampling frequency	Hourly	
Sampling season	Annual	
Probe height (meters)	6	
Distance from supporting structure (meters)	2	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	24	
Distance from to furnace or incinerator flue (meters)	9	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	Aluminum	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	No	

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Table C 3. Portland, N. Roselawn Site Information

Local Site Name	Portland, N. Roselawn	
AQS ID	41-051-0246	
GPS Coordinates	45.5614, -122.6679	
Street address	N. Roselawn, Portland, OR	
County	Multnomah	
Distance from roadways (meters)	43	
Traffic count (AADT, yr)	AADT = 2621 (NE Malory & Ainsworth), yr =2012 (Weekday)	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	PM10	PM10
Parameter code, POC	81102, 7 85101,7	81102, 9 85101,9
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS,	NAAQS,
Monitoring Objective	Population, Non-source oriented	Population, Non-source oriented
Spatial scale of Representativeness	Neighborhood	Neighborhood
Monitoring types	SLAMS, NATTS	SLAMS, NATTS
Instrument type and model	Tisch PM10 HV+	Tisch PM10 HV+
Instrument parameter occurrence code	Primary	Collocated
Method number	063	063
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/04/2005	1/1/2013
Current sampling frequency	1/6	1/12
Sampling season	Annual	Annual
Probe height (meters)	6	6
Distance from supporting structure (meters)	No supports	No supports
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	25	25
Distance from to furnace or incinerator flue (meters)	15	15
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Aluminum	Aluminum
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the annual pm10?	Yes	Yes

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Local Site Name	Portland, N. Roselawn	
AQS ID	41-051-0246	
GPS Coordinates	45.5614, -122.6679	
Street address	N. Roselawn, Portland, OR	
County	Multnomah	
Distance from roadways (meters)	43	
Traffic count (AADT, yr)	AADT = 2621 (NE Malory & Ainsworth), yr =2012 (Weekday)	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Air Toxic	Air Toxic
Parameter code, POC	POC 7	POC 9
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NATTS	NATTS
Monitoring Objective	Population, Non-source oriented	Population, Non-source oriented
Spatial scale of Representativeness	Neighborhood	Neighborhood
Monitoring types	Special	Special
Instrument type and model	Tisch PM10 HV+, Tisch, PUF+, Entech VOC & Carbonyl	Tisch PM10 HV+, Tisch, PUF+, Entech VOC & Carbonyl
Instrument parameter occurrence code	Primary	Collocated
Method number	078, 114, 089, 117	078, 114, 089, 117
FRM/FEM/FRM/other	Other	Other
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/04/2005	1/1/2013
Current sampling frequency	1/6	1/12
Sampling season	Annual	Annual
Probe height (meters)	6	6
Distance from supporting structure (meters)	No supports	No supports
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	25	25
Distance from to furnace or incinerator flue (meters)	15	15
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	PM10- Al, VOC Glass	PM10- Al, VOC Glass
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the annual pm10?	Yes	Yes

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Table C 4. Portland Near Roadway Site Information

Local Site Name	Portland Near Roadway	
AQS ID	41-067-0005	
GPS Coordinates	45.8992, -122.7455	
Street address	6745 SW Bradbury Ct, Tualatin, OR	
County	Washington	
Distance from roadways (meters)	27	
Traffic count (AADT, yr)	AADT = 156,000 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	NO₂	NO_x
Parameter code, POC	42602,1	42603,1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS	Information
Monitoring Objective	Source (Freeway)	Source (Freeway)
Spatial scale of Representativeness	Microscale	Microscale
Monitoring types	SLAMS	SLAMS
Instrument type and model	Ecotech, Serinus 40	Ecotech, Serinus 40
Instrument parameter occurrence code	Primary	Primary
Method number	186	186
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	04/21/2014	04/21/2014
Current sampling frequency	Hourly	Hourly
Sampling season	Annual	Annual
Probe height (meters)	4	4
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	35	35
Distance from to furnace or incinerator flue (meters)	58	58
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Glass, Teflon	Glass, Teflon
Residence time for reactive gases (seconds)	3.5	3.5
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

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Local Site Name	Portland – Near Roadway Site	
AQS ID	41-067-0005	
GPS Coordinates	45.8992, -122.7455	
Street address	6745 SW Bradbury Ct, Tualatin, OR	
County	Washington	
Distance from roadways (meters)	27	
Traffic count (AADT, yr)	AADT = 156,000 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Ozone	CO
Parameter code, POC	44201,1	42101,1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS	NAAQS
Monitoring Objective	Source (Freeway)	Source (Freeway)
Spatial scale of Representativeness	Microscale	Microscale
Monitoring types	SLAMS	SLAMS
Instrument type and model	Teledyne API 400e	Ecotech 9830T
Instrument parameter occurrence code	Primary	Primary
Method number	087	588
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	04/21/2014	04/21/2014
Current sampling frequency	Hourly	Hourly
Sampling season	Annual	Annual
Probe height (meters)	3.8	4
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	35	35
Distance from to furnace or incinerator flue (meters)	58	58
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Teflon	Glass, Teflon
Residence time for reactive gases (seconds)	7.1	3.7
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

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Local Site Name	Portland – Near Roadway Site	
AQS ID	41-067-0005	
GPS Coordinates	45.8992, -122.7455	
Street address	6745 SW Bradbury Ct, Tualatin, OR	
County	Washington	
Distance from roadways (meters)	27	
Traffic count (AADT, yr)	AADT = 156,000 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	PM2.5	Wind Speed
Parameter code, POC	88101,1	61101,1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS	Information
Monitoring Objective	Source (Freeway)	Support Source Monitoring
Spatial scale of Representativeness	Microscale	Microscale
Monitoring types	SLAMS	SLAMS
Instrument type and model	R&P 2025 w/ WINS	Climatronics, Sonic Anemometer
Instrument parameter occurrence code	Primary	Primary
Method number	118	050
FRM/FEM/FRM/other	FRM	other
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	04/21/2014	04/21/2014
Current sampling frequency	Hourly	Hourly
Sampling season	Annual	Annual
Probe height (meters)	4	10
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	35	35
Distance from to furnace or incinerator flue (meters)	58	58
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Glass tubing	Glass tubing
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the Standard?	Yes	NA

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Local Site Name	Portland – Near Roadway Site	
AQS ID	41-067-0005	
GPS Coordinates	45.8992, -122.7455	
Street address	6745 SW Bradbury Ct, Tualatin, OR	
County	Washington	
Distance from roadways (meters)	27	
Traffic count (AADT, yr)	AADT = 156,000 yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Wind Direction	Temperature
Parameter code, POC	61104,1	62101,1
MSA, CBSA, CSA or area represented	6440	64404
Monitor purpose	Information	Information
Monitoring Objective	Support Source Monitoring	Support Source Monitoring
Spatial scale of Representativeness	Microscale	Microscale
Monitoring types	SLAMS	SLAMS
Instrument type and model	Climatronics, Sonic Anemometer	Climatronics,
Instrument parameter occurrence code	Primary	Primary
Method number	020	040
FRM/FEM/FRM/other	other	other
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	04/21/2014	06/21/2014
Current sampling frequency	Hourly	Hourly
Sampling season	Annual	Annual
Probe height (meters)	10	2
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	35	35
Distance from to furnace or incinerator flue (meters)	58	58
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	NA	NA
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	NA	NA

2014 Oregon Annual Ambient Air Monitoring Network Plan

Table C 5. Hillsboro, Hare Field Site Information

Local Site Name	Hillsboro, Hare Field	
AQS ID	41-067-0004	
GPS Coordinates	45.5285, -122.9724	
Street address	1151 NE Grant St, Hillsboro, OR	
County	Washington	
Distance from roadways (meters)	88	
Traffic count (AADT, yr)	AADT = 23,318 (Cornell & Grant), Yr = 2013 (3/19/2013)	
Groundcover (e.g. asphalt, dirt, grass)	Asphalt	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	PM2.5	Air Toxic
Parameter code, POC	88101,1	POC 7
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS, AQI	Assessment site
Monitoring Objective	Population, Non-source oriented	Population, Non-source oriented
Spatial scale of Representativeness	Neighborhood	Neighborhood
Monitoring types	SLAMS	Special
Instrument type and model	R&P 2025 w/ WINS	Tisch PM10 HV+, Tisch, PUF+, Entech VOC & Carbonyl
Instrument parameter occurrence code	Primary	Primary
Method number	118	078, 114, 089, 117
FRM/FEM/FRM/other	FRM	Other
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/28/2005	1/04/2005
Current sampling frequency	1/3	1/6
Sampling season	Annual	Annual
Probe height (meters)	2	6
Distance from supporting structure (meters)	No supports	No supports
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	125	25
Distance from to furnace or incinerator flue (meters)	150	15
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Aluminum	PM10-AI, VOC Glass
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

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Table C 6. Portland, Sauvie Island Site Information

Local Site Name	Portland, Sauvie Island	
AQS ID	41-009-0004	
GPS Coordinates	45.7685, -122.7721	
Street address	Social Security Beach, Sauvie Island, OR	
County	Columbia	
Distance from roadways (meters)	94	
Traffic count (AADT, yr)	AADT = No Data, rural area	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Ozone	Wind Speed
Parameter code, POC	44201,1	61101,1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	Upwind of Urban, Transport	Information
Monitoring Objective	Urban Scale	Population
Spatial scale of Representativeness	Rural	Urban
Monitoring types	SLAMS	SPM
Instrument type and model	Teledyne API 400 – Ultraviolet	Climatronics 100243
Instrument parameter occurrence code	Primary	Primary
Method number	087	050
FRM/FEM/FRM/other	FRM	Other
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/1/1980	1/1/1999
Current sampling frequency	Hourly	Hourly
Sampling season	May-Sept	Annual
Probe height (meters)	4.3	10
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	105	10
Distance from to furnace or incinerator flue (meters)	NA	NA
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Teflon	NA
Residence time for reactive gases (seconds)	7.1	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	NA

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Local Site Name	Portland, Sauvie Island	
AQS ID	41-009-0004	
GPS Coordinates	45.7685, -122.7721	
Street address	Social Security Beach, Sauvie Island, OR	
County	Columbia	
Distance from roadways (meters)	94	
Traffic count (AADT, yr)	AADT = No Data, rural area	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Wind Direction	
Parameter code, POC	61104,1	
MSA, CBSA, CSA or area represented	6440	
Monitor purpose	Information	
Monitoring Objective	Population	
Spatial scale of Representativeness	Urban	
Monitoring types	SPM	
Instrument type and model	Climatronics 100243	
Instrument parameter occurrence code	Primary	
Method number	020	
FRM/FEM/FRM/other	Other	
Collecting agency	ODEQ (0821)	
Analytical lab	ODEQ	
Reporting agency	ODEQ	
Monitoring start date	1/1/1999	
Current sampling frequency	Hourly	
Sampling season	Annual	
Probe height (meters)	10	
Distance from supporting structure (meters)	1	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	10	
Distance from to furnace or incinerator flue (meters)	NA	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	NA	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	NA	

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Table C 7. Portland - Carus – Spangler Rd. Site Information

Local Site Name	Portland - Carus – Spangler Rd.	
AQS ID	41-005-0004	
GPS Coordinates	45.2593, -122.5882	
Street address	13575 Spangler Rd., Carus, OR	
County	Clackamas	
Distance from roadways (meters)	12	
Traffic count (AADT, yr)	AADT = 465 yr = 2011	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Ozone	Wind Speed
Parameter code, POC	44201,1	61101,1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS	Information
Monitoring Objective	Downwind of Urban, Maximum Concentration	Population
Spatial scale of Representativeness	Urban Scale	Urban
Monitoring types	SLAMS	SPM
Instrument type and model	Dasibi 1003–Ultraviolet	Climatronics WM-III
Instrument parameter occurrence code	Primary	Primary
Method number	019	050
FRM/FEM/FRM/other	FRM	Other
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	7/23/1976	7/23/1976
Current sampling frequency	Hourly	Hourly
Sampling season	May-Sept	Annual
Probe height (meters)	6.4	10
Distance from supporting structure (meters)	2.7	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	250	10
Distance from to furnace or incinerator flue (meters)	NA	NA
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Teflon	NA
Residence time for reactive gases (seconds)	2.8	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	NA

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Local Site Name	Portland - Carus – Spangler Rd.	
AQS ID	41-005-0004	
GPS Coordinates	45.2593, -122.5882	
Street address	13575 Spangler Rd., Carus, OR	
County	Clackamas	
Distance from roadways (meters)	12	
Traffic count (AADT, yr)	AADT = 465 yr = 2011	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Wind Direction	
Parameter code, POC	61104,1	
MSA, CBSA, CSA or area represented	6440	
Monitor purpose	Information	
Monitoring Objective	Population	
Spatial scale of Representativeness	Urban	
Monitoring types	SPM	
Instrument type and model	Climatronics WM-III	
Instrument parameter occurrence code	Primary	
Method number	020	
FRM/FEM/FRM/other	Other	
Collecting agency	ODEQ (0821)	
Analytical lab	ODEQ	
Reporting agency	ODEQ	
Monitoring start date	7/23/1976	
Current sampling frequency	Hourly	
Sampling season	Annual	
Probe height (meters)	10	
Distance from supporting structure (meters)	1	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	10	
Distance from to furnace or incinerator flue (meters)	NA	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	NA	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	NA	

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Table C 8. Portland – Sherwood Site Information

Local Site Name	Portland – Sherwood	
AQS ID	41-067-1004	
GPS Coordinates	45.4024, -122.8544	
Street address	17180 SW Lasich Ln, Sherwood, OR	
County	Washington	
Distance from roadways (meters)	210	
Traffic count (AADT, yr)	AADT = 2635 yr = 2013	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Ozone	Wind Speed
Parameter code, POC	44201,1	61101,1
MSA, CBSA, CSA or area represented	6440	6440
Monitor purpose	NAAQS	Information
Monitoring Objective	Downwind of Urban, Max concentration, Non-source oriented	Downwind of Urban, Max concentration, Non-source oriented
Spatial scale of Representativeness	Urban Scale	Urban
Monitoring types	SLAMS	SPM
Instrument type and model	TECO 49C–Ultraviolet	Climatronics 100243
Instrument parameter occurrence code	Primary	Primary
Method number	047	050
FRM/FEM/FRM/other	FRM	Other
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	8/1/2008	8/1/2008
Current sampling frequency	Hourly	Hourly
Sampling season	May-Sept	Annual
Probe height (meters)	3	10
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	115	115
Distance from to furnace or incinerator flue (meters)	NA	NA
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Teflon	NA
Residence time for reactive gases (seconds)	3.5	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	NA

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Local Site Name	Portland – Sherwood.	
AQS ID	41-067-1004	
GPS Coordinates	45.4024, -122.8544	
Street address	17180 SW Lasich Ln, Sherwood, OR	
County	Washington	
Distance from roadways (meters)	210	
Traffic count (AADT, yr)	AADT = 2635 yr = 2013	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Portland-Vancouver (#6440)	
Pollutant	Wind Direction	
Parameter code, POC	61104,1	
MSA, CBSA, CSA or area represented	6440	
Monitor purpose	Information	
Monitoring Objective	Downwind of Urban, Max concentration, Non-source oriented	
Spatial scale of Representativeness	Urban	
Monitoring types	SPM	
Instrument type and model	Climatronics 100243	
Instrument parameter occurrence code	Primary	
Method number	020	
FRM/FEM/FRM/other	Other	
Collecting agency	ODEQ (0821)	
Analytical lab	ODEQ	
Reporting agency	ODEQ	
Monitoring start date	8/1/2008	
Current sampling frequency	Hourly	
Sampling season	Annual	
Probe height (meters)	10	
Distance from supporting structure (meters)	1	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	115	
Distance from to furnace or incinerator flue (meters)	NA	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	NA	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	NA	

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Table C 9. Salem/Turner - Cascade Jr. High Site Information

Local Site Name	Salem/Turner - Cascade Jr. High	
AQS ID	41-047-0004	
GPS Coordinates	44.8103, -122.9151	
Street address	10226 Marion Rd SE, Turner, OR	
County	Marion	
Distance from roadways (meters)	60	
Traffic count (AADT, yr)	AADT = 1700, Yr = 2012 (9/4/2012)	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Salem	
Pollutant	Ozone	Wind Speed
Parameter code, POC	44201,1	61101,1
MSA, CBSA, CSA or area represented	7080	6440
Monitor purpose	NAAQS, AQI	Information
Monitoring Objective	Downwind of Urban, Max concentration, Non-source oriented	Downwind of Urban, Max concentration, Non-source oriented
Spatial scale of Representativeness	Urban Scale	Urban
Monitoring types	SLAMS	SPM
Instrument type and model	Dasibi 1003H–Ultraviolet	Climatronics F-460
Instrument parameter occurrence code	Primary	Primary
Method number	019	050
FRM/FEM/FRM/other	FRM	Other
Collecting agency	ODEQ (0821)	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	6/23/1995	6/23/1995
Current sampling frequency	Hourly	Hourly
Sampling season	May-Sept	Annual
Probe height (meters)	4.5	10
Distance from supporting structure (meters)	1.5	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	620	620
Distance from to furnace or incinerator flue (meters)	45	NA
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Teflon	NA
Residence time for reactive gases (seconds)	2.8	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	NA

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Local Site Name	Salem /Turner - Cascade Jr. High	
AQS ID	41-047-0004	
GPS Coordinates	45.8103, -122.9151	
Street address	10226 Marion Rd SE, Turner, OR	
County	Marion	
Distance from roadways (meters)	60	
Traffic count (AADT, yr)	AADT = 1700, Yr = 2012 (9/4/2012)	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Salem	
Pollutant	Wind Direction	
Parameter code, POC	61104,1	
MSA, CBSA, CSA or area represented	6440	
Monitor purpose	Information	
Monitoring Objective	Downwind of Urban, Max concentration, Non-source oriented	
Spatial scale of Representativeness	Urban	
Monitoring types	SPM	
Instrument type and model	Climatronics F-460	
Instrument parameter occurrence code	Primary	
Method number	020	
FRM/FEM/FRM/other	Other	
Collecting agency	ODEQ (0821)	
Analytical lab	ODEQ	
Reporting agency	ODEQ	
Monitoring start date	6/23/1995	
Current sampling frequency	Hourly	
Sampling season	Annual	
Probe height (meters)	10	
Distance from supporting structure (meters)	1	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	620	
Distance from to furnace or incinerator flue (meters)	NA	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	NA	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	NA	

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Table C 10. Eugene – Amazon Park Site Information

Local Site Name	Eugene – Amazon Park	
AQS ID	41-039-0060	
GPS Coordinates	44.0263, -123.0837	
Street address	E. 29 th Amazon Park, Eugene, OR	
County	Lane	
Distance from roadways (meters)	61	
Traffic count (AADT, yr)	AADT = 1700, Yr = 2013	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Eugene-Springfield	
Pollutant	Ozone	PM2.5
Parameter code, POC	44201,1	88101,1
MSA, CBSA, CSA or area represented	2400	2400
Monitor purpose	NAAQS, AQI	NAAQS, AQI
Monitoring Objective	Urban Population	Urban Population
Spatial scale of Representativeness	Urban Scale	Neighborhood
Monitoring types	SLAMS	SLAMS
Instrument type and model	Teledyne API 400 – Ultraviolet	R&P 2025 w/ VSCC
Instrument parameter occurrence code	Primary	Primary
Method number	087	145
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	LRAPA	LRAPA
Analytical lab	LRAPA	LRAPA
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/1/1985	1/1/1999
Current sampling frequency	Hourly	1/3
Sampling season	May-Sept	Annual
Probe height (meters)	4	5
Distance from supporting structure (meters)	1	2
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	29	29
Distance from to furnace or incinerator flue (meters)	NA	NA
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Teflon	Aluminum
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

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Local Site Name	Eugene – Amazon Park	
AQS ID	41-039-0060	
GPS Coordinates	44.0263, -123.0837	
Street address	E. 29 th Amazon Park, Eugene, OR	
County	Lane	
Distance from roadways (meters)	61	
Traffic count (AADT, yr)	AADT =1700, Yr = 2013	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Eugene-Springfield	
Pollutant	PM2.5	
Parameter code, POC	88101,2	
MSA, CBSA, CSA or area represented	2400	
Monitor purpose	NAAQS	
Monitoring Objective	Population	
Spatial scale of Representativeness	Neighborhood	
Monitoring types	SLAMS	
Instrument type and model	R&P 2025 w/ VSCC	
Instrument parameter occurrence code	Collocated	
Method number	145	
FRM/FEM/FRM/other	FRM	
Collecting agency	LRAPA	
Analytical lab	LRAPA	
Reporting agency	ODEQ	
Monitoring start date	1/2/2002	
Current sampling frequency	1/12	
Sampling season	Annual	
Probe height (meters)	5	
Distance from supporting structure (meters)	2	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	29	
Distance from to furnace or incinerator flue (meters)	NA	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	Aluminum	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	Yes	

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Table C 11 Springfield Site Information

Local Site Name	Springfield	
AQS ID	41-039-1009	
GPS Coordinates	44.0467, -123.0177	
Street address	Springfield, OR	
County	Lane	
Distance from roadways (meters)	55	
Traffic count (AADT, yr)	AADT = 13,700, Yr = 2004	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Eugene-Springfield	
Pollutant	PM2.5	
Parameter code, POC	88101,1	
MSA, CBSA, CSA or area represented	2400	
Monitor purpose	NAAQS	
Monitoring Objective	Population	
Spatial scale of Representativeness	Neighborhood	
Monitoring types	SPM	
Instrument type and model	R&P 2000 w/ WINS	
Instrument parameter occurrence code	Primary	
Method number	117	
FRM/FEM/FRM/other	FRM	
Collecting agency	LRAPA	
Analytical lab	LRAPA	
Reporting agency	ODEQ	
Monitoring start date	1/4/2004	
Current sampling frequency	1/6	
Sampling season	Annual	
Probe height (meters)	9	
Distance from supporting structure (meters)	2	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	53	
Distance from to furnace or incinerator flue (meters)	NA	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	Aluminum	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	Yes	

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Table C 12. Eugene – Saginaw Site Information

Local Site Name	Eugene – Saginaw	
AQS ID	41-039-1007	
GPS Coordinates	43.8345, -123.0353	
Street address	Delight Villy Sch Rd., Saginaw, OR	
County	Lane	
Distance from roadways (meters)	140	
Traffic count (AADT, yr)	No data available	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Eugene-Springfield	
Pollutant	Ozone	
Parameter code, POC	44201,1	
MSA, CBSA, CSA or area represented	2400	
Monitor purpose	NAAQS, AQI	
Monitoring Objective	Downwind of Urban, Highest Concentration	
Spatial scale of Representativeness	Urban Scale	
Monitoring types	SLAMS	
Instrument type and model	Teledyne API 400 – Ultraviolet	
Instrument parameter occurrence code	Primary	
Method number	087	
FRM/FEM/FRM/other	FRM	
Collecting agency	LRAPA	
Analytical lab	LRAPA	
Reporting agency	ODEQ	
Monitoring start date	5/1/1994	
Current sampling frequency	Hourly	
Sampling season	May-Sept	
Probe height (meters)	5	
Distance from supporting structure (meters)	1	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	43	
Distance from to furnace or incinerator flue (meters)	36	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	Teflon	
Residence time for reactive gases (seconds)	3.5	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	Yes	

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Table C 13. Eugene – Hwy 99 Site Information

Local Site Name	Eugene – Hwy 99	
AQS ID	41-039-0059	
GPS Coordinates	44.0672, -123.1414	
Street address	450 Pacific Hwy 99, Eugene, OR	
County	Lane	
Distance from roadways (meters)	75	
Traffic count (AADT, yr)	AADT= 29,000, yr = 2013	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Eugene-Springfield	
Pollutant	PM2.5	PM10
Parameter code, POC	88101,1	81102,1 & 85101,1
MSA, CBSA, CSA or area represented	2400	2400
Monitor purpose	NAAQS, AQI	NAAQS
Monitoring Objective	Population	Population
Spatial scale of Representativeness	Neighborhood	Neighborhood
Monitoring types	SLAMS	SLAMS
Instrument type and model	R&P 2025 w/ VSCC	R&P 2025
Instrument parameter occurrence code	Primary	Primary
Method number	145	127
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	LRAPA	LRAPA
Analytical lab	LRAPA	LRAPA
Reporting agency	ODEQ	ODEQ
Monitoring start date	7/1/2011	1/1/2012
Current sampling frequency	1/3	1/6
Sampling season	Annual	Annual
Probe height (meters)	5	5
Distance from supporting structure (meters)	2	2
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	19	19
Distance from to furnace or incinerator flue (meters)	19	19
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Aluminum	Aluminum
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

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Local Site Name	Eugene – Hwy 99	
AQS ID	41-039-0059	
GPS Coordinates	44.0672, -123.1414	
Street address	450 Pacific Hwy 99, Eugene, OR	
County	Lane	
Distance from roadways (meters)	75	
Traffic count (AADT, yr)	AADT= 29,000, yr = 2013	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Eugene-Springfield	
Pollutant	PM2.5	
	Speciation	
Parameter code, POC	POC 5	
MSA, CBSA, CSA or area represented	2400	
Monitor purpose	Special Purpose	
Monitoring Objective	Population	
Spatial scale of Representativeness	Neighborhood	
Monitoring types	Special Purpose	
Instrument type and model	Super SASS & URG 3000N w/Pall Quartz filter and Cyclone Inlet	
Instrument parameter occurrence code	Primary	
Method number	810,811,812,826 831,838, 839,840 841,842	
FRM/FEM/FRM/other	other	
Collecting agency	ODEQ	
Analytical lab	ODEQ	
Reporting agency	ODEQ	
Monitoring start date	1/1/2013	
Current sampling frequency	1/6	
Sampling season	Annual	
Probe height (meters)	3	
Distance from supporting structure (meters)	2	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	19	
Distance from to furnace or incinerator flue (meters)	19	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	Aluminum	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	No	

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Table C 14. Cottage Grove, City Shops Site Information

Local Site Name	Cottage Grove, City Shops	
AQS ID	41-039-9004	
GPS Coordinates	43.7995, -123.0535	
Street address	Cottage Grove, OR	
County	Lane	
Distance from roadways (meters)	177	
Traffic count (AADT, yr)	No Data Available	
Groundcover (e.g. asphalt, dirt, grass)	Dirt	
Representative statistical area name (CBSA, MSA)	Other	
Pollutant	PM2.5	
Parameter code, POC	88101,1	
MSA, CBSA, CSA or area represented	0000	
Monitor purpose	NAAQS,AQI	
Monitoring Objective	Population	
Spatial scale of Representativeness	Neighborhood	
Monitoring types	SLAMS	
Instrument type and model	R&P 2025 w/ WINS	
Instrument parameter occurrence code	Primary	
Method number	118	
FRM/FEM/FRM/other	FRM	
Collecting agency	LRAPA	
Analytical lab	LRAPA	
Reporting agency	ODEQ	
Monitoring start date	1/1/2008	
Current sampling frequency	1/3	
Sampling season	Annual	
Probe height (meters)	5	
Distance from supporting structure (meters)	2	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	36	
Distance from to furnace or incinerator flue (meters)	60	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	Aluminum	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	Yes	

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Table C 15. Oakridge, Willamette Center Site Information

Local Site Name	Oakridge, Willamette Center	
AQS ID	41-039-2013	
GPS Coordinates	43.7443, -122.4805	
Street address	School St., Oakridge, OR	
County	Lane	
Distance from roadways (meters)	115	
Traffic count (AADT, yr)	AADT = 6600, yr =2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Other	
Pollutant	PM2.5	PM10
Parameter code, POC	88101,1	81102,1 & 85101,1
MSA, CBSA, CSA or area represented	0000	0000
Monitor purpose	NAAQS, AQI	NAAQS
Monitoring Objective	Population	Population
Spatial scale of Representativeness	Neighborhood	Neighborhood
Monitoring types	SLAMS	SLAMS
Instrument type and model	R&P 2025 w/ VSCC	R&P 2025
Instrument parameter occurrence code	Primary	Primary
Method number	145	145
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	LRAPA	LRAPA
Analytical lab	LRAPA	LRAPA
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/1/1999	11/1/1989
Current sampling frequency	1/3	1/6
Sampling season	Annual	Annual
Probe height (meters)	5	5
Distance from supporting structure (meters)	2	2
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	20	20
Distance from to furnace or incinerator flue (meters)	63	63
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Aluminum	Aluminum
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

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Table C 16. Grants Pass, Parkside School Site Information

Local Site Name	Grants Pass, Parkside School	
AQS ID	41-035-0114	
GPS Coordinates	42.4342, -123.3485	
Street address	735 SW Wagner Meadows Dr., Grants Pass, OR	
County	Josephine	
Distance from roadways (meters)	85	
Traffic count (AADT, yr)	AADT = 4900, yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Other	
Pollutant	PM2.5	
Parameter code, POC	88101,1	
MSA, CBSA, CSA or area represented	0000	
Monitor purpose	NAAQS, AQI	
Monitoring Objective	Population	
Spatial scale of Representativeness	Neighborhood	
Monitoring types	SLAMS	
Instrument type and model	R&P 2025 w/ WINS	
Instrument parameter occurrence code	Primary	
Method number	118	
FRM/FEM/FRM/other	FRM	
Collecting agency	ODEQ	
Analytical lab	ODEQ	
Reporting agency	ODEQ	
Monitoring start date	8/31/1999	
Current sampling frequency	1/6	
Sampling season	Annual	
Probe height (meters)	3	
Distance from supporting structure (meters)	2	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	27	
Distance from to furnace or incinerator flue (meters)	87	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	Aluminum	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	Yes	

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Table C 17. Medford, Grant & Belmont Site Information

Local Site Name	Medford, Grant & Belmont	
AQS ID	41-029-0133	
GPS Coordinates	42.3141, -122.8792	
Street address	695 Belmont Street, Medford, OR	
County	Jackson	
Distance from roadways (meters)	13	
Traffic count (AADT, yr)	AADT = 1500, yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Other	
Pollutant	PM2.5	PM2.5
Parameter code, POC	88101,1	88101,2
MSA, CBSA, CSA or area represented	0000	0000
Monitor purpose	NAAQS, AQI	NAAQS
Monitoring Objective	Population	Population
Spatial scale of Representativeness	Neighborhood	Neighborhood
Monitoring types	SLAMS	SLAMS
Instrument type and model	R&P 2025 w/ WINS	&P 2025 w/ WINS
Instrument parameter occurrence code	Primary	Collocated
Method number	118	118
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	ODEQ	ODEQ
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	10/21/1998	
Current sampling frequency	1/3	1/12
Sampling season	Annual	Annual
Probe height (meters)	3	3
Distance from supporting structure (meters)	2	2
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	29	29
Distance from to furnace or incinerator flue (meters)	21	21
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Aluminum	Aluminum
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

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Table C 18. Medford - Talent Site Information

Local Site Name	Medford - Talent	
AQS ID	41-029-0201	
GPS Coordinates	42.2299, -122.7877	
Street address	7120 Rapp ln, Talent, OR	
County	Jackson	
Distance from roadways (meters)	220	
Traffic count (AADT, yr)	AADT = 764, yr = 2006	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Medford-Ashland	
Pollutant	Ozone	
Parameter code, POC	44201,1	
MSA, CBSA, CSA or area represented	0000	
Monitor purpose	NAAQS, AQI	
Monitoring Objective	Downwind of Urban, Highest Concentration	
Spatial scale of Representativeness	Urban Scale	
Monitoring types	SLAMS	
Instrument type and model	Dasibi 1003	
Instrument parameter occurrence code	Primary	
Method number	019	
FRM/FEM/FRM/other	FRM	
Collecting agency	ODEQ (0821)	
Analytical lab	ODEQ	
Reporting agency	ODEQ	
Monitoring start date	5/12/1992	
Current sampling frequency	Hourly	
Sampling season	May-Sept	
Probe height (meters)	7	
Distance from supporting structure (meters)	1	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	49	
Distance from to furnace or incinerator flue (meters)	NA	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	Teflon	
Residence time for reactive gases (seconds)	2.8	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	Yes	

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Table C 19. Klamath Falls, Petersen School Site Information

Local Site Name	Klamath Falls, Petersen School	
AQS ID	41-035-0004	
GPS Coordinates	42.1903, -121.7314	
Street address	4856 Clinton Ave, KlamathFalls,OR	
County	Klamath	
Distance from roadways (meters)	8	
Traffic count (AADT, yr)	AADT = 9090 (Clinton & Summers) , Yr = 2011	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Other	
Pollutant	PM2.5	PM2.5 Speciation,
Parameter code, POC	88101,1	POC 5
MSA, CBSA, CSA or area represented	0000	0000
Monitor purpose	NAAQS, AQI	Special Purpose
Monitoring Objective	Population	Population
Spatial scale of Representativeness	Neighborhood	Neighborhood
Monitoring types	SLAMS	Special Purpose
Instrument type and model	R&P 2025 w/ VSCC	Super SASS & URG 3000N w/Pall Quartz filter and Cyclone Inlet
Instrument parameter occurrence code	Primary	Primary
Method number	145	810,811,812,826 831,838, 839,840 841,842
FRM/FEM/FRM/other	FRM	other
Collecting agency	ODEQ	ODEQ
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/5/1998	7/6/2009
Current sampling frequency	1/3	1/6
Sampling season	Annual	Annual
Probe height (meters)	3	3
Distance from supporting structure (meters)	2	2
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	43	43
Distance from to furnace or incinerator flue (meters)	46	46
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Aluminum	Aluminum
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	No

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Table C 20. Lakeview, Center and M Sts Site Information

Local Site Name	Lakeview, Center and M Sts	
AQS ID	41-037-0001	
GPS Coordinates	42.1892, -120.3540	
Street address	8 South M St., Lakeview, OR	
County	Lake	
Distance from roadways (meters)	25	
Traffic count (AADT, yr)	AADT = 3100 (Hwy 20 & L st., yr = 2012)	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Other	
Pollutant	PM2.5	PM2.5 Speciation
Parameter code, POC	88101,1	POC 5
MSA, CBSA, CSA or area represented	0000	0000
Monitor purpose	NAAQS, AQI	Special Purpose
Monitoring Objective	Population	Population
Spatial scale of Representativeness	Neighborhood	Neighborhood
Monitoring types	SLAMS	Special Purpose
Instrument type and model	R&P 2025 w/ WINS	Super SASS & URG 3000N w/Pall Quartz filter and Cyclone Inlet
Instrument parameter occurrence code	Primary	Primary
Method number	118	810,811,812,826 831,838, 839,840 841,842
FRM/FEM/FRM/other	FRM	other
Collecting agency	ODEQ	ODEQ
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/5/1998	10/4/2009
Current sampling frequency	1/3	1/6
Sampling season	Annual	Annual
Probe height (meters)	3	3
Distance from supporting structure (meters)	2	2
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	19	19
Distance from to furnace or incinerator flue (meters)	19	19
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Aluminum	Aluminum
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	No

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Table C 21. Burns, Washington Street Site Information

Local Site Name	Burns, Washington Street	
AQS ID	41-025-0003	
GPS Coordinates	43.5892, -119.0487	
Street address	E. Washington St., Burns, OR	
County	Harney	
Distance from roadways (meters)	16	
Traffic count (AADT, yr)	AADT=3200 (Hwy20 & A St.), Yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Other	
Pollutant	PM2.5	
Parameter code, POC	88101,1	
MSA, CBSA, CSA or area represented	0000	
Monitor purpose	NAAQS, AQI	
Monitoring Objective	Population	
Spatial scale of Representativeness	Neighborhood	
Monitoring types	SLAMS	
Instrument type and model	R&P 2025 w/ WINS	
Instrument parameter occurrence code	Primary	
Method number	118	
FRM/FEM/FRM/other	FRM	
Collecting agency	ODEQ	
Analytical lab	ODEQ	
Reporting agency	ODEQ	
Monitoring start date	9/19/2009	
Current sampling frequency	1/3	
Sampling season	Annual	
Probe height (meters)	3	
Distance from supporting structure (meters)	2	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	80	
Distance from to furnace or incinerator flue (meters)	41	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	Aluminum	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	Yes	

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Table C 22. Prineville, Davidson Park Site Information

Local Site Name	Prineville, Davidson Park	
AQS ID	41-013-0100	
GPS Coordinates	44.2998, -120.8448	
Street address	251 SE Court St, Prineville, OR	
County	Crook	
Distance from roadways (meters)	10	
Traffic count (AADT, yr)	AADT = 8800 (Hwy 26 & OR 27), Yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Other	
Pollutant	PM2.5	
Parameter code, POC	88101,1	
MSA, CBSA, CSA or area represented	0000	
Monitor purpose	NAAQS, AQI	
Monitoring Objective	Population	
Spatial scale of Representativeness	Neighborhood	
Monitoring types	SLAMS	
Instrument type and model	R&P 2025 w/ WINS	
Instrument parameter occurrence code	Primary	
Method number	118	
FRM/FEM/FRM/other	FRM	
Collecting agency	ODEQ	
Analytical lab	ODEQ	
Reporting agency	ODEQ	
Monitoring start date	1/1/2009	
Current sampling frequency	1/3	
Sampling season	Annual	
Probe height (meters)	3	
Distance from supporting structure (meters)	2	
Distance from obstructions on roof (meters)	No obstructions	
Distance from obstructions not on roof (meters)	No obstructions	
Distance from trees (meters)	37	
Distance from to furnace or incinerator flue (meters)	39	
Unrestricted airflow (degrees)	360°	
Probe material for reactive gases	Aluminum	
Residence time for reactive gases (seconds)	NA	
Will there be changes with the next 18 months?	No	
Is it suitable for comparison against the standard?	Yes	

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Table C 23. La Grande, Ash Street Site Information

Local Site Name	La Grande, Ash Street	
AQS ID	41-061-0119	
GPS Coordinates	45.3390, -118.0952	
Street address	251 SE Court St, Prineville, OR	
County	Union	
Distance from roadways (meters)	43	
Traffic count (AADT, yr)	No data	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Other	
Pollutant	PM10	Air Toxic
Parameter code, POC	81102,1	POC 7
MSA, CBSA, CSA or area represented	0000	6440
Monitor purpose	NAAQS, AQI	NATTS,
Monitoring Objective	Population	Population, Non-source oriented
Spatial scale of Representativeness	Neighborhood	Neighborhood
Monitoring types	SLAMS	Special
Instrument type and model	Tisch PM10 HV+	Tisch PM10 HV+, Tisch, PUF+, Entech VOC & Carbonyl
Instrument parameter occurrence code	Primary	Primary
Method number	063	110, 114, 089, 117
FRM/FEM/FRM/other	FRM	Other
Collecting agency	ODEQ	ODEQ (0821)
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/1/2009	1/04/2005
Current sampling frequency	1/6	1/6
Sampling season	Annual	Annual
Probe height (meters)	3	6
Distance from supporting structure (meters)	2	No supports
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	37	25
Distance from to furnace or incinerator flue (meters)	39	15
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Aluminum	PM10- Al, VOC Glass
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	Yes

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Table C 24. Hermiston Municipal Airport Site Information

Local Site Name	Hermiston Municipal Airport	
AQS ID	41-059-1003	
GPS Coordinates	45.8290, -119.2630	
Street address	1498 Airport Way, Hermiston, OR	
County	Umatilla	
Distance from roadways (meters)	888,	
Traffic count (AADT, yr)	AADT = 7300 (MP 8.7, US395 or Hwy 54), Yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Eugene-Springfield	
Pollutant	Ozone	Wind Speed
Parameter code, POC	44201,1	61101,1
MSA, CBSA, CSA or area represented	0000	0000
Monitor purpose	NAAQS, AQI	Information
Monitoring Objective	Population	Population
Spatial scale of Representativeness	Urban	Urban
Monitoring types	SLAMS	SLAMS
Instrument type and model	Dasibi 1003 – Ultraviolet	R M Young
Instrument parameter occurrence code	Primary	Primary
Method number	019	050
FRM/FEM/FRM/other	FRM	other
Collecting agency	ODEQ	ODEQ
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	2/27/2007	2/27/2007
Current sampling frequency	Hourly	Hourly
Sampling season	May-Sept	May-Sept
Probe height (meters)	4	10
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	134	134
Distance from to furnace or incinerator flue (meters)	72	72
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Teflon	NA
Residence time for reactive gases (seconds)	2.8	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	NA

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Local Site Name	Hermiston Municipal Airport	
AQS ID	41-059-1003	
GPS Coordinates	45.8290, -119.2630	
Street address	1498 Airport Way, Hermiston, OR	
County	Umatilla	
Distance from roadways (meters)	888	
Traffic count (AADT, yr)	AADT = 7300 (MP 8.7, US395 or Hwy 54), Yr = 2012	
Groundcover (e.g. asphalt, dirt, grass)	Grass	
Representative statistical area name (CBSA, MSA)	Eugene-Springfield	
Pollutant	Wind Direction	Temperature
Parameter code, POC	61104,1	62101,1
MSA, CBSA, CSA or area represented	0000	0000
Monitor purpose	Information	Information
Monitoring Objective	Population	Population
Spatial scale of Representativeness	Urban	Urban
Monitoring types	SLAMS	SLAMS
Instrument type and model	R M Young	Climatronics –
Instrument parameter occurrence code	Primary	Primary
Method number	020	040
FRM/FEM/FRM/other	other	FRM
Collecting agency	ODEQ	ODEQ
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	2/27/2007	2/27/2007
Current sampling frequency	Hourly	Hourly
Sampling season	May-Sept	May-Sept
Probe height (meters)	4	10
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	134	134
Distance from to furnace or incinerator flue (meters)	72	72
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Teflon	NA
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	NA	NA

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Table C 25. Bend Rd Dept. Site Information

Local Site Name	Bend Rd Dept.	
AQS ID	41-017-0121	
GPS Coordinates	44.0219, -121.2602	
Street address	61150 SE 27th St., Bend, OR	
County	Deschutes	
Distance from roadways (meters)	221	
Traffic count (AADT, yr)	4370, 2009 (Stevens Rd.), City of Bend Publication	
Groundcover (e.g. asphalt, dirt, grass)	Scrubby ground	
Representative statistical area name (CBSA, MSA)	Bend	
Pollutant	Ozone	Wind Speed
Parameter code, POC	44201,1	61101,1
MSA, CBSA, CSA or area represented	0000	0000
Monitor purpose	NAAQS, AQI	Information
Monitoring Objective	Population	Population
Spatial scale of Representativeness	Urban	Urban
Monitoring types	SLAMS	SLAMS
Instrument type and model	Teledyne API 400E – uv absorption	Climatronics –
Instrument parameter occurrence code	Primary	Primary
Method number	087	020
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	ODEQ	ODEQ
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	5/1/2009	1/1/2009
Current sampling frequency	Hourly	Hourly
Sampling season	May-Sept	Annual
Probe height (meters)	4	10
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	26	26
Distance from to furnace or incinerator flue (meters)	34	34
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	Teflon	NA
Residence time for reactive gases (seconds)	7.1	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	Yes	NA

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Local Site Name	Bend Rd Dept.	
AQS ID	41-017-0121	
GPS Coordinates	44.0219, -121.2602	
Street address	61150 SE 27th St., Bend, OR	
County	Deschutes	
Distance from roadways (meters)	221	
Traffic count (AADT, yr)	4370, 2009 (Stevens Rd.), City of Bend Publication	
Groundcover (e.g. asphalt, dirt, grass)	Scrubby ground	
Representative statistical area name (CBSA, MSA)	Bend	
Pollutant	Wind Direction	Temperature
Parameter code, POC	61104,1	62101,1
MSA, CBSA, CSA or area represented	0000	0000
Monitor purpose	Information	Information
Monitoring Objective	Population	Population
Spatial scale of Representativeness	Urban	Urban
Monitoring types	SLAMS	SLAMS
Instrument type and model	Climatronics	Climatronics
Instrument parameter occurrence code	Primary	Primary
Method number	050	040
FRM/FEM/FRM/other	FRM	FRM
Collecting agency	ODEQ	ODEQ
Analytical lab	ODEQ	ODEQ
Reporting agency	ODEQ	ODEQ
Monitoring start date	1/1/2009	1/1/2009
Current sampling frequency	Hourly	Hourly
Sampling season	Annual	Annual
Probe height (meters)	10	2
Distance from supporting structure (meters)	1	1
Distance from obstructions on roof (meters)	No obstructions	No obstructions
Distance from obstructions not on roof (meters)	No obstructions	No obstructions
Distance from trees (meters)	26	26
Distance from to furnace or incinerator flue (meters)	34	34
Unrestricted airflow (degrees)	360°	360°
Probe material for reactive gases	NA	NA
Residence time for reactive gases (seconds)	NA	NA
Will there be changes with the next 18 months?	No	No
Is it suitable for comparison against the standard?	NA	NA

Appendix D. Site Evaluation Checklist

Region 10 ANNUAL AIR MONITORING NETWORK PLAN CHECKLIST

Year:

Agency:

40 CFR 58.10(a)(1) requires that each Annual Network Plan (ANP) include information regarding the following types of monitors: SLAMS monitoring stations including FRM, FEM, and ARM monitors that are part of SLAMS, NCore stations, STN stations, State speciation stations, SPM stations, and/or, in serious, severe and extreme ozone nonattainment areas, PAMS stations, and SPM monitoring stations.

1.	ANP requirement	Citation within 40 CFR 58	Was the info submitted? ¹ If yes, page #s. Flag if incorrect? ²	Does the information provided ³ meet the req? ⁴	Notes
1.	Submit plan by July 1 st	58.10 (a)(1)	No		Competing reporting requirements like AQS certification makes it difficult to finish the plan on time.
2.	Statement of purpose for each monitor including SPMs per 58.20(a)	58.10 (a)(1)	Yes, pages 32 to 75.	Yes	
3.	30-day public comment / inspection period ⁵	58.10 (a)(1), 58.10 (a)(2)	Yes	Yes	

¹ Response options: NA (Not Applicable), Yes, No, Incomplete, Incorrect. The responses “Incomplete” and “Incorrect” assume that some information has been provided.

² To the best of our knowledge.

³ Assuming the information is correct

⁴ Response options: NA (Not Applicable) – [reason], Yes, No, Insufficient to Judge.

⁵ The affected state or local agency must document the process for obtaining public comment and include any comments received through the public notification process within their submitted plan.

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1.	ANP requirement	Citation within 40 CFR 58	Was the info submitted? ¹ If yes, page #s. Flag if incorrect? ²	Does the information provided ³ meet the req? ⁴	Notes
4.	Modifications to SLAMS network – case when we are not approving actual system modifications (i.e., we will do it outside the ANP process ⁶)	58.10 (a)(2) 58.10(e)	Yes, page 19.	Yes	Burns PM2.5 sampling frequency going from every 3 rd day to daily.
5.	Modifications to SLAMS network – case when we are approving actual system modifications per 58.14(c)	58.10 (a)(2) 58.10 (b)(5) 58.10(e) 58.14 (c)	NO	NA – no changes	
6.	Does plan include documentation (e.g., attached approval letter) for system modifications that have been approved since last ANP approval?		NO	NA – no changes	
7.	NCORE site operational (by 1/1/2011)	58.10 (a)(3)	Yes, page 32	Yes	
8.	Pb site for 0.5-1.0 tpy sources operational (by 12/27/2011)	58.10 (a)(4)	No	Yes, Appendix E – Waivers	The only Pb source site was discontinued in the 2012 ANP with a waiver granted by EPA.
9.	NO2 plan for area-wide and RA40 sites submitted by 7/1/2012	58.10 (a)(5)	Yes, page 35.	NA	
10.	NO2 area-wide and RA40 sites operational by 1/1/2014	58.10 (a)(5)	NO2 Area wide Yes, page 35. Roadway No, page 43.	NA	Starting date was moved back to 1/1/2014. We actually started on 4/15/2014.
11.	NO2 plan for near-road sites submitted by 7/1/2013	58.10 (a)(5)	Yes, page 43.	NA	.
12.	SO2 sites operational (by 1/1/2013)	58.10 (a)(6) and 58.13(d)	Yes, page 36.	NA	
13.	AQS site identification number for each site	58.10 (b)(1)	Yes, pages 32 to 75.	Yes	
14.	Location of each site: street address and geographic coordinates	58.10 (b)(2)	Yes, pages 32 to 75.	Yes	
15.	Sampling and analysis method(s) for each	58.10 (b)(3)	Yes, pages 32 to	Yes	

⁶ See 58.14(c)

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1.	ANP requirement	Citation within 40 CFR 58	Was the info submitted? ¹ If yes, page #s. Flag if incorrect? ²	Does the information provided ³ meet the req? ⁴	Notes
	measured parameter		75.		
16.	Any proposals to remove or move a monitoring station within a period of 18 months following plan submittal	58.10 (b)(5)	Yes, page 19	Yes	Only moving special monitoring
17.	Scale of representativeness for each monitor as defined in Appendix D	58.10(b)(6); App D	Yes, pages 32 to 75.	Yes	
18.	Identification of sites suitable and sites not suitable for comparison to the annual PM2.5 NAAQS as described in Part 58.30	58.10 (b)(7)	Yes, pages 32 to 75.	Yes	
19.	MSA, CBSA, CSA or other area represented by the monitor	58.10 (b)(8)	Yes, pages 32 to 75.	Yes	
20.	Designation of any Pb monitors as either source-oriented or non-source-oriented	58.10 (b)(9)	Yes, page 34.	Yes	
21.	Any source-oriented Pb site for which a waiver has been requested or granted by EPA RA	58.10 (b)(10)	Yes, page 83.	Yes	
22.	Any Pb monitor for which a waiver has been requested or granted by EPA RA for use of Pb-PM10 in lieu of Pb-TSP	58.10 (b)(11)	Yes, page 34.	Yes	
23.	Identification of required NO2 monitors as either near-road or area-wide, or vulnerable and susceptible population monitors	58.10 (b)(12)	Yes, pages 35 and 43.	Yes	One Area wide site, one near-road site
24.	Identification of any PM2.5 FEMs and/or ARMs not eligible to be compared to the NAAQS (Note 1: must include required data assessment.) (Note 2: Required SLAMS must monitor PM2.5 with NAAQS-comparable monitor at the required sample frequency.)	58.10 (b)(13) 58.11 (e)	No	NA	We are not submitting FEMs or ARMs for comparison to the NAAQS. DEQ and LRAPA are running PM2.5 FEMS for informational purposes.
25.	For SPMs listed as non-regulatory, note the start Date of FRM/FEM/ARM at SPM. If > 24 months, and monitor is eligible for comparison to the NAAQS per 58.11 (e) and 58.30, the agency must supply information that App A, C or E requirements were not met.	58.20(c)	Yes, page 58.	Yes	Springfield City Hall PM2.5 FRM

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1.	ANP requirement	Citation within 40 CFR 58	Was the info submitted? ¹ If yes, page #s. Flag if incorrect? ²	Does the information provided ³ meet the req? ⁴	Notes
26.	Document how states and local agencies provide for the review of changes to a PM2.5 monitoring network that impact the location of a violating PM2.5 monitor.	58.10 (c)	Yes, Page 85.	Yes	There have been no changes to the PM2.5 monitoring network but DEQ will document how any future changes will be processed.
27.	Does the plan include a request for approval for and alternative to appendix A requirements for SPMs operating a FRM/FEM/ARM which also meets appendix E?	58.11 (a) (2)	NA	NA	<i>No such monitoring sties</i>
28.	Start date for each monitor	Required to determine if other req. (e.g., min # and co-lo) are met	Yes, pages 32 to 75.	Yes	
29.	Instrument monitor type for each monitor	Required to determine if other req. (e.g., min # and co-lo) are met	Yes, pages 32 to 75 and Appendix A.	Yes	
30.	Monitoring objective for each instrument	App D 1.1 58.10 (b)(6)	Yes, pages 32 to 75.	Yes	
31.	Site type for each instrument	App D 1.1.1	Yes, pages 32 to 75.	Yes	
32.	Instrument parameter code for each instrument	Required to determine if other req. (e.g., min # and co-lo) are met	Yes, pages 32 to 75.	Yes	
33.	Instrument parameter occurrence code for each instrument	Required to determine if other req.	Yes, pages 32 to 75.	Yes	

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1.	ANP requirement	Citation within 40 CFR 58	Was the info submitted? ¹ If yes, page #s. Flag if incorrect? ²	Does the information provided ³ meet the req? ⁴	Notes
		(e.g., min # and co-lo) are met			
34.	Sampling season for ozone (note: date of waiver approval must be included if the sampling season deviates from requirement)	58.10 (b)(4) App D, 4.1(i)	Yes, pages 34,44,48,50,52,54,56,59,66,72,74.	Yes	
35.	Sampling schedule for PM2.5 - applies to year-round and seasonal sampling schedules (note: date of waiver approval must be included if the sampling season deviates from requirement)	58.10 (b)(4) 58.12(d) App D 4.7	Yes, pages 32, 45,47,56-58, 60, 62, 63-70.	Yes	
36.	Sampling schedule for PM10	58.10 (b)(4) 58.12(e) App D 4.6	Yes, pages 32,33,41,42,47,60,63,71.	Yes	
37.	Sampling schedule for Pb	58.10 (b)(4) 58.12(b) App D 4.5	Yes, page 34.	Yes	
38.	Sampling schedule for PM10-2.5	58.10 (b)(4) 58.12(f) App D 4.8	Yes, page 33.	Yes	
39.	Minimum # of monitors for O3 met? [Note: should be supported by MSA ID, MSA population, DV, # monitors, and # required monitors] (see footnote) ⁷	App D, 4.1(a) and Table D-2	Yes, page 22	Yes	
40.	Identification of max. conc. O3 monitor(s)	App D 4.1 (b)	Yes, page 50.	Yes	
41.	Minimum monitoring requirements met for near-road NO2 (2014 start date)	App D 4.3.2	Yes, page 24.	Yes	
42.	Minimum monitoring requirements met for area-	App D 4.3.3	Yes, page 24.	Yes	

⁷ Only monitors considered to be required SLAMs are eligible to be counted towards meeting minimum monitoring requirements. In addition, ozone monitors that do not meet traffic count/distance requirements to be neighborhood scale (40 CFR 58 Appendix E, Table E-1) cannot be counted towards minimum monitoring requirements.

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1.	ANP requirement	Citation within 40 CFR 58	Was the info submitted? ¹ If yes, page #s. Flag if incorrect? ²	Does the information provided ³ meet the req? ⁴	Notes
	wide NO2				
43.	Minimum monitoring requirements met for SO2 <i>[Note: Only monitors considered to be required SLAMs are eligible to be counted towards meeting minimum monitoring requirements.]</i>	App D 4.4	Yes, page 25.	Yes	
44.	Minimum monitoring requirements met for Pb <i>[Note: Only monitors considered to be required SLAMs are eligible to be counted towards meeting minimum monitoring requirements.]</i>	App D 4.5 58.13(a)	Yes, page 26.	Yes	
45.	Minimum # of monitors for PM2.5 met? [Note 1: should be supported by MSA ID, MSA population, DV, # monitors, and # required monitors] [Note 2: Only monitors considered to be required SLAMs are eligible to be counted towards meeting minimum monitoring requirements.]	App D, 4.7.1(a) and Table D-5	Yes, page 28.	Yes	
46.	Minimum monitoring requirements for continuous PM2.5 met?	App D 4.7.2	Yes, page 29	Yes	These are used for the Air Quality Index only.
47.	Minimum # of monitors for PM10 met?	App D, 4.6 (a) and Table D-4	Yes, page 27		
48.	Minimum monitoring requirements met for PM10-2.5 mass at NCore sites?	App D 4.8 App D 4.7.2	Yes, page 21	Yes	
49.	Distance of site from nearest road	App E 6	Yes, pages 32 to 75.	Yes	
50.	Traffic count of nearest road	App E	Yes, pages 32 to 75.	Yes	Where traffic counts to the nearest road was unavailable, the traffic count to the nearest road with data was provided.
51.	Probe height	App E 5 App E 2	Yes, pages 32 to 75.	Yes	
52.	Distance from supporting structure	App E 3(b) App E 2	Yes, pages 32 to 75.	Yes	
53.	Distance from obstructions on roof	App E, 4(a)	Yes, pages 32 to	Yes	

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		and 4(b) App E 4(b)	75.		
54.	Distance from obstructions not on roof	App E 9 App E 4(a)	Yes, pages 32 to 75.	Yes	
55.	Distance from trees	App E 9 App E 5	Yes, pages 32 to 75.	Yes	
56.	Distance to furnace or incinerator flue	App E 3(b)	Yes, pages 32 to 75.	Yes	
57.	Unrestricted airflow	App E, 4(a) and 4(b)	Yes, pages 32 to 75.	Yes	
58.	Probe material (if applicable)	App E 9	Yes, pages 32 to 75.	Yes	
59.	Residence time (if applicable)	App E 9	Yes, pages 32 to 75.	Yes	

2.

Appendix E. Waivers

EPA Region 10 has granted DEQ and LRAPA waivers to discontinue required monitoring that was of lower value in order to keep higher value monitors operational and start up new required monitoring. The tables below show the monitoring sites with waivers and their required reported values from surrogate sources.

1. TSP Lead Waiver

EPA approved ODEQ’s request to discontinue TSP lead monitoring at Cascade Mills in McMinnville. The measured TSP lead levels were far below the standard and the monitoring resources were needed for the new Portland, Near Roadway site monitoring. The table below shows the waiver parameters.

Table D 1. McMinnville, Cascade Steel TSP lead Waiver

	Waiver requirement	TSP Lead levels	Comments
McMinnville, Cascade Steel (41-071-1702)	Three year average is < 50% of std (Std is 0.15ug/m3)	2010 to 2012 three yr average was 0.04ug/m3 or 24% of Std	Waiver approved by EPA

2. Carbon monoxide Waivers

The Medford is a CO maintenance areas but its monitoring site was discontinued in 2010 because of very low concentrations and funding cuts. The maintenance plan requires monitoring however, so EPA and ODEQ agreed upon an alternative method to track CO. The Metropolitan Planning Organization periodically updates their transportation plan and runs a CO emission model. This model is used to track CO. The model is not run every year so the latest result is reported in the table below.

Table D 2. CO emission estimates from the Rogue Valley and Central Lane County MPOs.

Analysis Year	Medford Area Estimated CO Emissions (Tons/yr)
2015	3,485
2020	3,650
2026	3,559
2034	3,871

3. PM10 Waivers

In 2010, Klamath Falls and Grants Pass PM₁₀ monitors were discontinued because their values had dropped far below the NAAQS and funding was cut. The PM₁₀ maintenance plans for these sites required continued monitoring so EPA and ODEQ agreed upon an alternate method to track PM₁₀. EPA allowed ODEQ to discontinue PM₁₀ monitoring if we used PM_{2.5} monitoring as a

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surrogate. In the 2010 network plan, we showed that the PM₁₀ consisted predominantly of PM_{2.5}. We developed correlation equations and calculated 2014 PM₁₀ estimates for these sites based on PM_{2.5}. Klamath Falls also has trigger point values which would lead to restarting the monitor. The PM₁₀ standard is 150µg/m³.

Table D 3. Linear regression equations used to estimate PM10 using PM2.5.

	Klamath Falls	Grants Pass
Linear Regression Equation	$y = 1.4x + 3.2$	$y = 1.2x + 2.6$
$Y = PM_{10}, X = PM_{2.5}$		

Table D 4. 2013 PM10 estimates for Klamath Falls and Grants Pass.

	PM2.5 98th percentile (µg/m ³)	PM10 Estimate (µg/m ³)
Klamath Falls (41-035-0004)	50.1	73
Grants Pass (41-033-0114)	35.5	45

Comments Forest fire smoke data was included to show a worse case PM10 value. The values were still less than ½ the NAAQS.

Appendix F. Review of Violating monitor changes.

Documentation and decision processes for changing or moving violating monitors. DEQ, LRAPA, and EPA may decide that a monitoring location, method, frequency, or other properties needs to be changed to provide more accurate or representative information for an area. Any changes will go through public notice and be approved by Region 10 EPA, Oregon DEQ or (Lane Regional Air Protection Agency depending on the location). Changes will meet the siting criteria in 40 CFR Part 58.