

Monitoring Networks

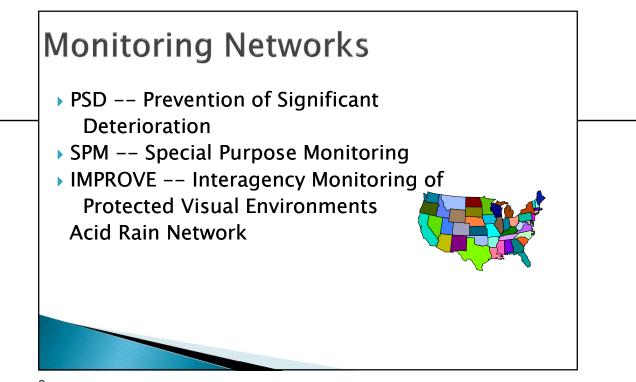
SLAMS -- State and Local Air Monitoring Station

NAMS -- National Air Monitoring Station

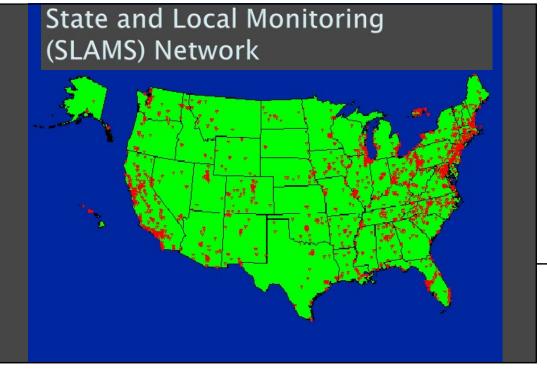
PAMS -- Photochemical Assessment

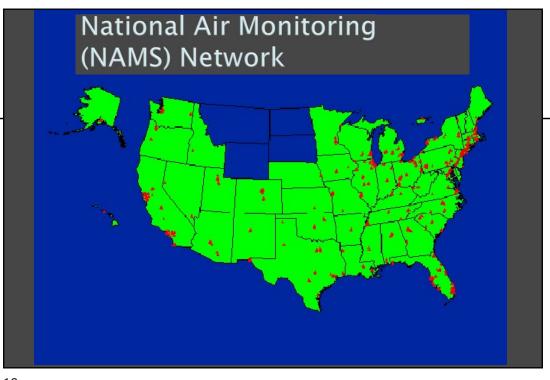
Monitoring Station

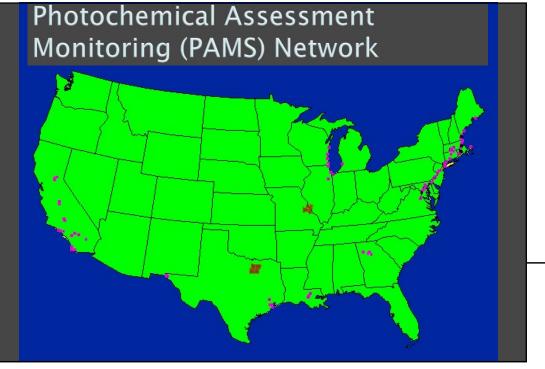
NCore—National Core Multipollutak

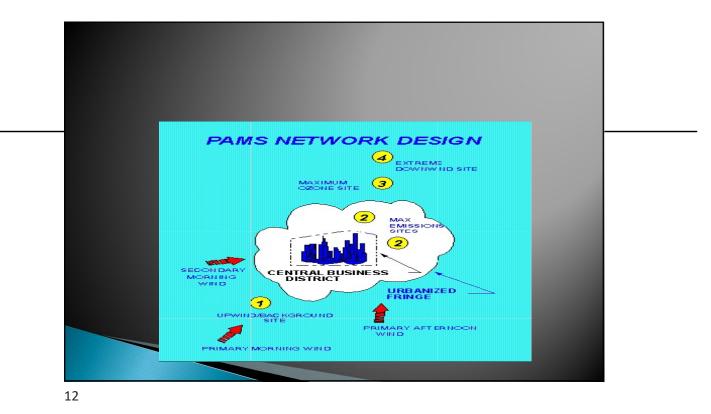


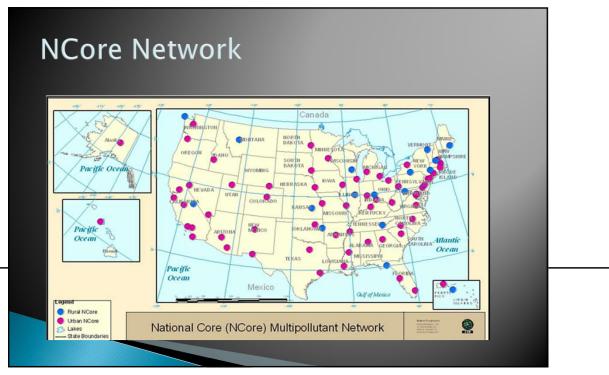
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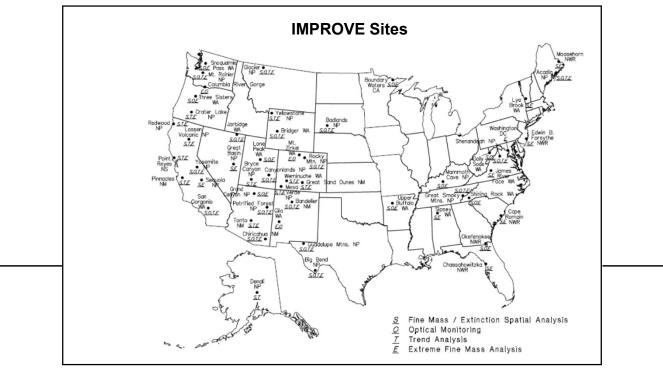


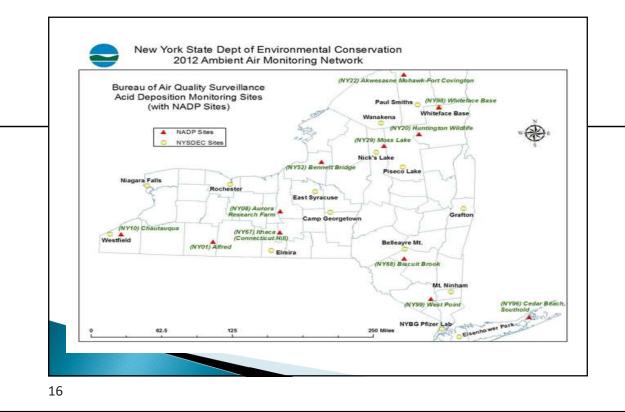


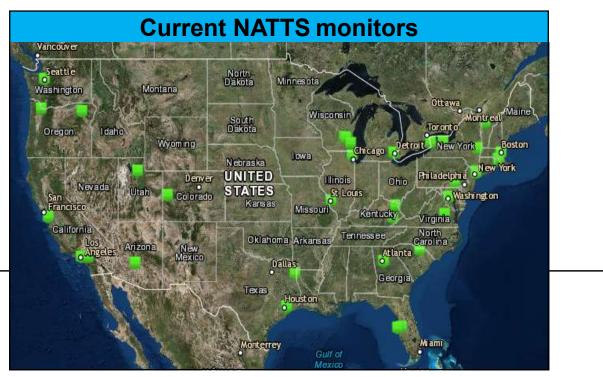


NCore pollutants

Parameter	Comments		
PM2.5 speciation	Organic and elemental carbon, major ions and trace metals (24 hour average; every 3rd day); IMPROVE or CSN		
PM2.5 FRM mass	24 hr. average at least every 3rd day		
continuous PM2.5 mass	1 hour reporting interval; FEM or pre-FEM monitors		
PM(10-2.5) mass	Filter-based or continuous		
ozone (O3)	all gases through continuous monitors		
carbon monoxide (CO)	capable of trace levels (low ppm and below) where needed		
sulfur dioxide (SO2)	capable of trace levels (low ppb and below) where needed		
nitrogen oxide (NO)	capable of trace levels (low ppb and below) where needed		
total reactive nitrogen (NOy)	capable of trace levels (low ppb and below) where needed		
surface meteorology	wind speed and direction (reported as "Resultant"), temperature, RH		





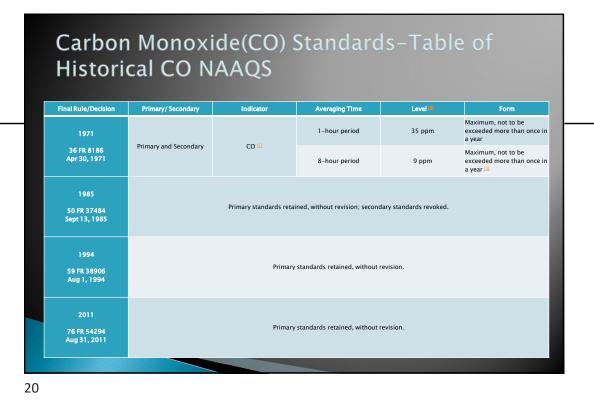


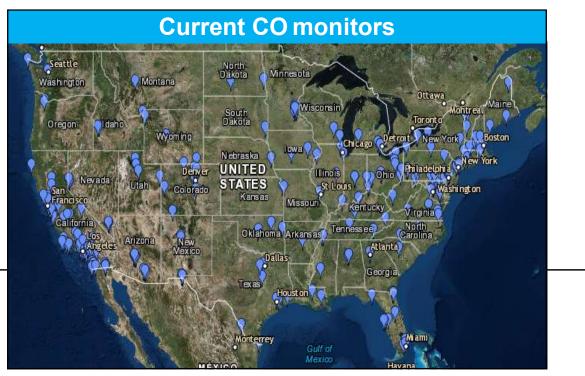


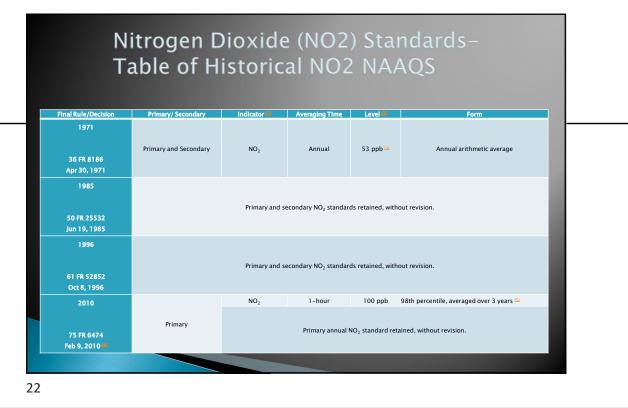
Pollutant [links to historical tables of NAAQS reviews]		Primary/ Secondary	Averaging Time	Level	Form	
Carbon Monoxide (CO)		primary	8 hours	9 ppm	Not to be exceeded more than once per year	
			1 hour	35 ppm	Not to be exceeded more than once per year	
Lead (Pb)		primary and secondary	Rolling 3 month average	0.15 µg/m ^{3 (<u>1</u>)}	Not to be exceeded	
<u>Nitrogen Dioxide (NO₂)</u>		primary	1 hour	100 ppb	98th percentile of 1-hour daily maximum concentrations, averaged over 3 years	
		primary and secondary	1 year	53 ppb (2)	Annual Mean	
<u>Ozone (O3)</u>		primary and secondary	8 hours	0.070 ppm ⁽³⁾	Annual fourth-highest daily maximum 8-hour concentration, averaged over 3 years	
		primary	1 year	12.0 µg/m ³	annual mean, averaged over 3 years	
	-	secondary	1 year	15.0 µg/m ³	annual mean, averaged over 3 years	
Particle Pollution (PM)	PM _{2.5}	primary and secondary	24 hours	35 µg/m ³	98th percentile, averaged over 3 years	
	PM ₁₀	primary and secondary	24 hours	150 µg/m ³	Not to be exceeded more than once per year on average over 3 years	
<u>Sulfur Dioxide (SO₂)</u>		primary	1 hour	75 ppb (4)	99th percentile of 1-hour daily maximum concentrations, averaged over 3 years	
		secondary	3 hours	0.5 ppm	Not to be exceeded more than once per year	

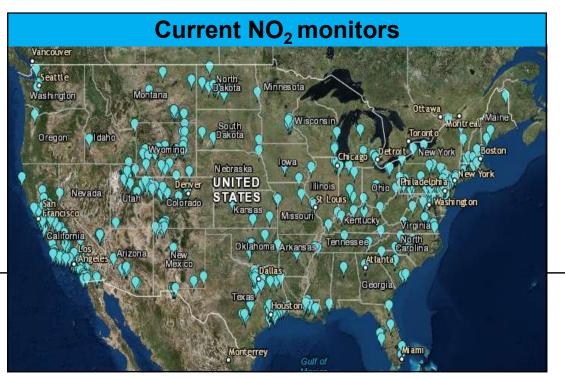
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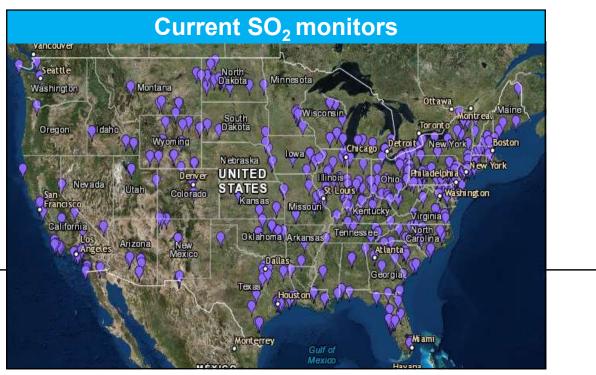


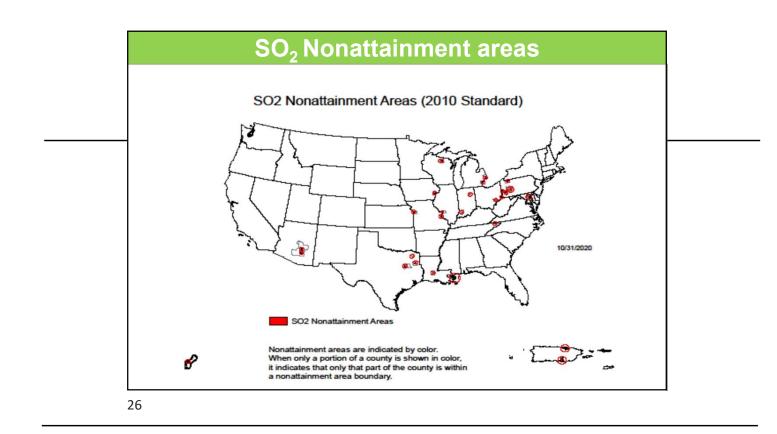


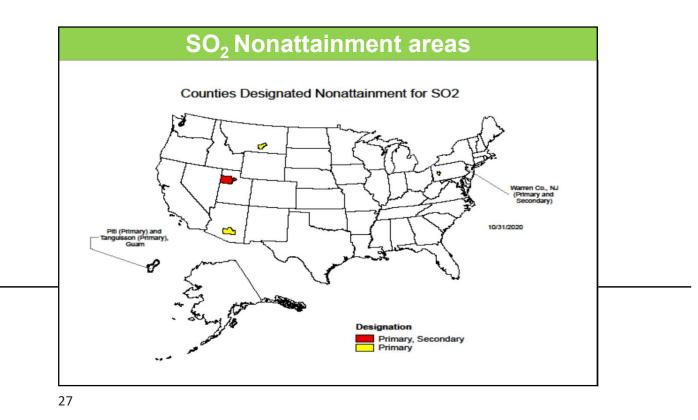


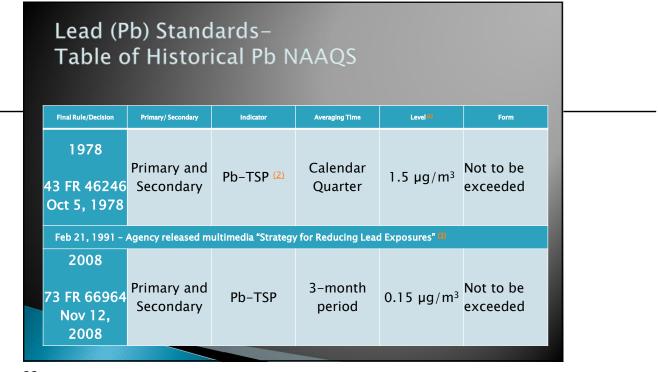
Oxides of Sulfur (SO2) Standards-Table of Historical SO2 NAAQS

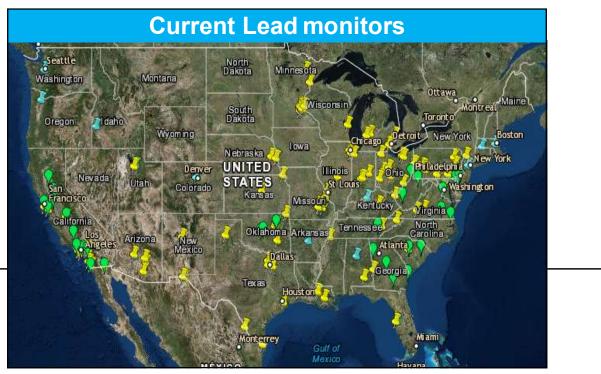


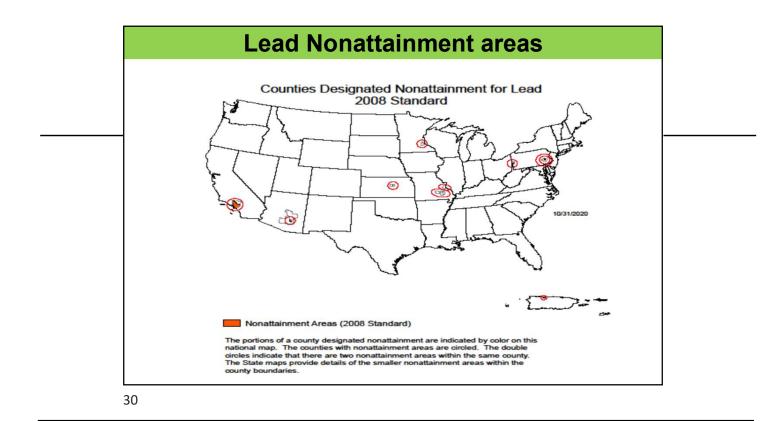


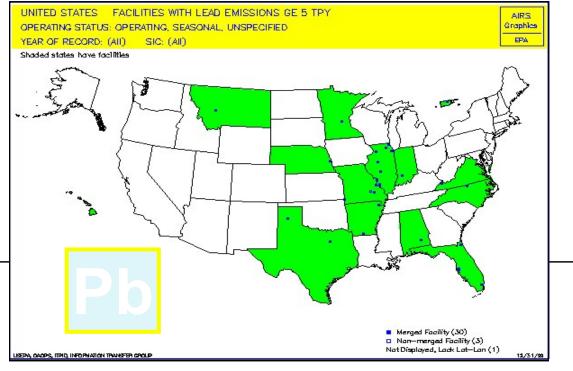




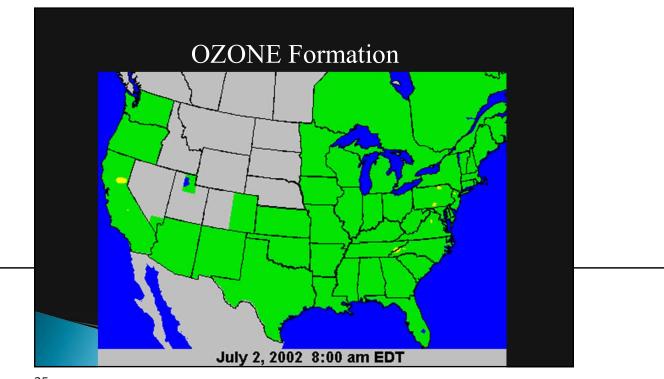


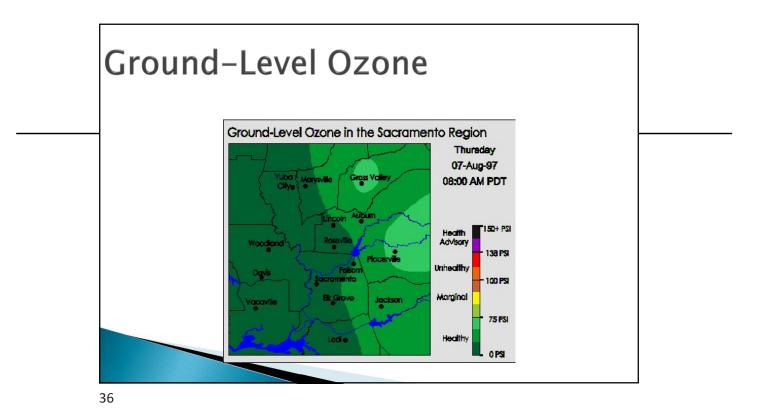


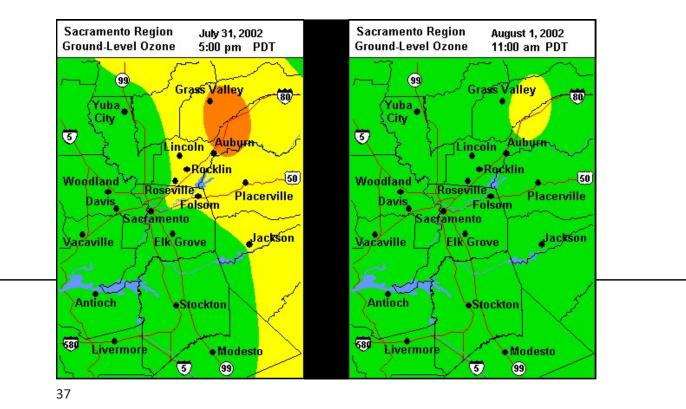




Final Rule/Decision	Primary/Secondary	Indicator ¹	Averaging Time	Level ²	Form	
1971 36 FR 8186 Apr 30, 1971	Primary and Secondary	Total photochemical oxidants	1 hour	0.08 ppm	Not to be exceeded more than one hour per year	
1979 44 FR 8202 Feb 8, 1979	Primary and Secondary	O ₃	1 hour	0.12 ppm	Attainment is defined when the expected number of days per calendar year, with maximum hourly average concentration greater than 0.12 ppm, is equal to or less than 1	
1993 58 FR 13008 Mar 9, 1993	EPA decided that revisions to the standards were not warranted at the time					
1997 62 FR 38856 Jul 18, 1997	Primary and Secondary	O ₃	8 hours	0.08 ppm	Annual fourth-highest daily maximum 8-hr concentration, averaged over 3 years	
2008 73 FR 16483 Mar 27, 2008	Primary and Secondary	O ₃	8 hours	0.075 ppm	Annual fourth-highest daily maximum 8-hr concentration, averaged over 3 years	
2015 <u>80 FR 65292</u> <u>Oct 26, 2015</u>	Primary and Secondary	O ₃	8 hours	0.070 ppm	Annual fourth-highest daily maximum 8 hour average concentration, averaged over 3 years	

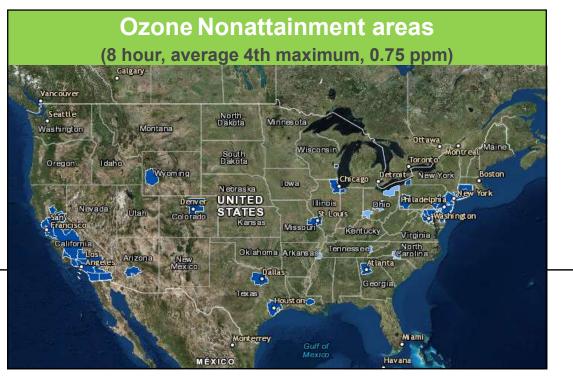


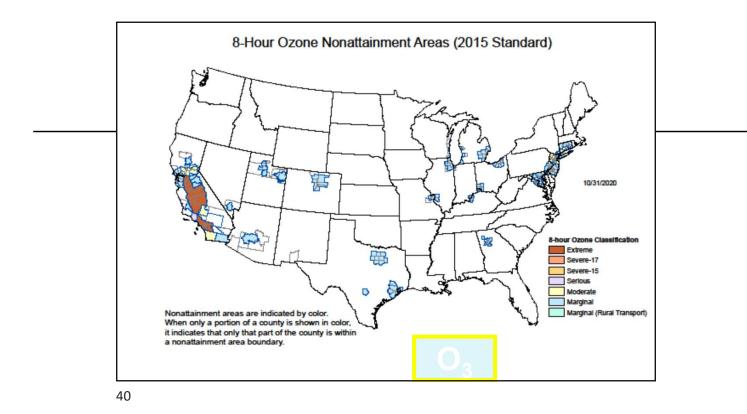




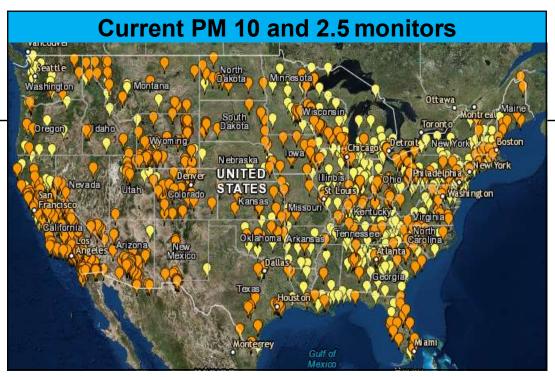
Current Ozone monitors Vancouver Seattle North Dakota Minnesota Montana Washington Ottawa Maine Wisconsin South Dakota Toronto Oregon daho Wyoming Lova Constant etroit New York ston Chicago Nebraska Philadelphia New Illinois UNITED Denver Nevada STATES St Louis Colorado Washington San Kansas Francisco Missouri Kentucky Virginia California Oklahoma Arkansas Tennessee Los Dallas Arizona Angeles Atlanta Georgi Houston Miami terre

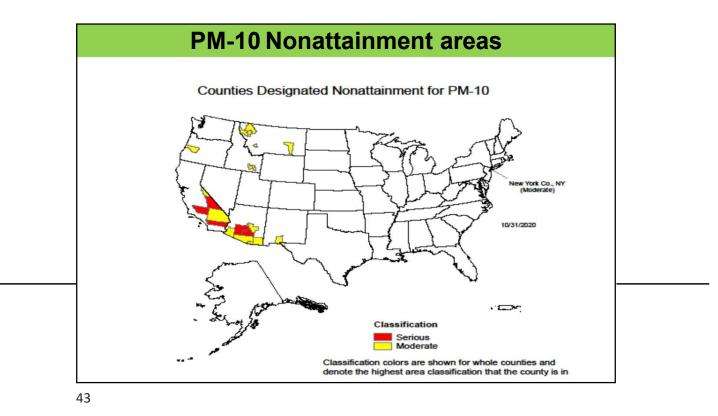
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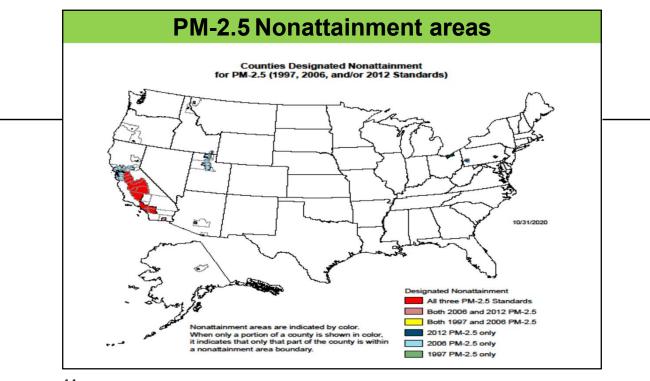


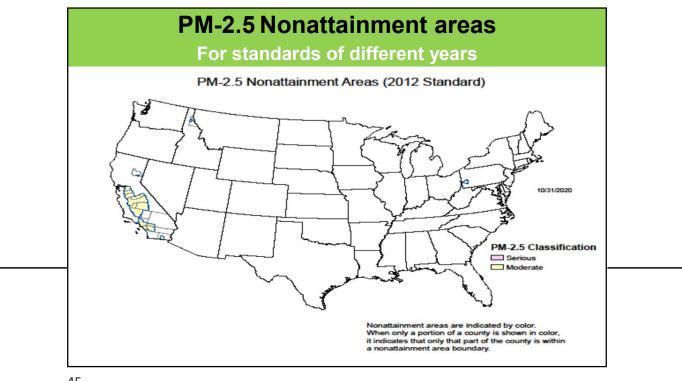


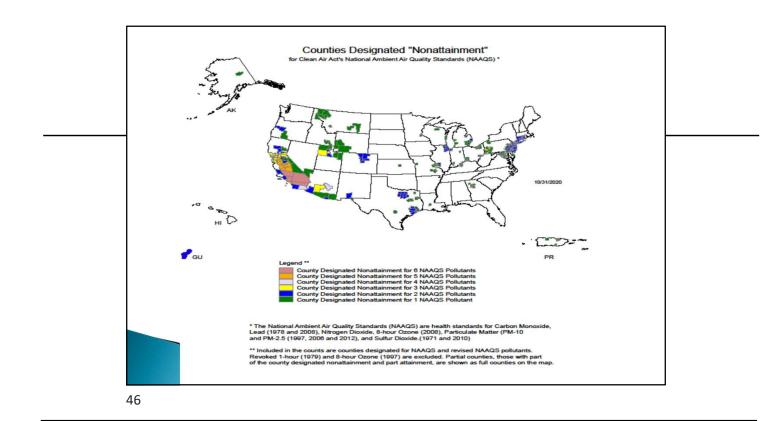
Final Rule	Primary/ Secondary	Indicator	Averaging Time	Level ^{B3}	Form
1971 Primary	Drimony	TSP 🕰	24-hour	260 µg/m³	Not to be exceeded more than once per year
	Primary		Annual	75 μg/m ³	Annual Average
36 FR 8186 Apr 30, 1971	Secondary	y TSP 24-hour		150 µg/m ³	Not to be exceeded more than once per year
1987 52 FR 24634 Jul 1, 1987	Primary and	PM ₁₀	24-hour	150 µg/m³	Not to be exceeded more than once per year on average over a 3-year period
	Secondary	condary ^{r M10}	Annual	50 µg/m³	Annual arithmetic mean, averaged over 3 years
			24-hour	65 µg/m ³	98th percentile, averaged over 3 years
		PM _{2.5}	Annual	15.0 µg/m ³	Annual arithmetic mean, averaged over 3 years (3).(4)
	Primary and Secondary		24-hour	150 μg/m³	Initially promulgated 99th percentile, averaged over 3 years; when 1997 standards for PMI0 were vacated, the form of 1987 standards remained in place (not to be exceeded more than once per year on average over a 3-year period) ²¹
			Annual	50 µg/m ³	Annual arithmetic mean, averaged over 3 years
2006	Primary and Secondary	DM	24-hour	35 µg/m ³	98th percentile, averaged over 3 years 🕮
71 FR 61144		F 1W12.5	Annual	15.0 µg/m ³	Annual arithmetic mean, averaged over 3 years (2), (7)
Oct 17, 2006	Secondary	PM ₁₀	24-hour	150 µg/m³	Not to be exceeded more than once per year on average over a 3-year period
	Primary	DM	Annual	12.0 µg/m ³	Annual arithmetic mean, averaged over 3 years
	Secondary Primary and Secondary		Annual	15.0 μg/m ³	Annual arithmetic mean, averaged over 3 years
2012			24-hour	35 µg/m³	98th percentile, averaged over 3 years
	Primary and Secondary	PM ₁₀	24-hour	150 µg/m³	Not to be exceeded more than once per year on average over a 3-year period

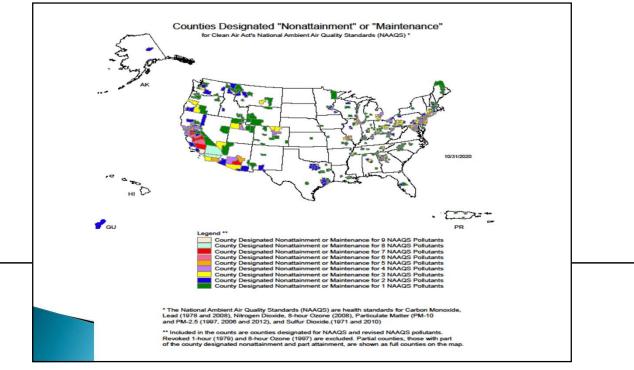






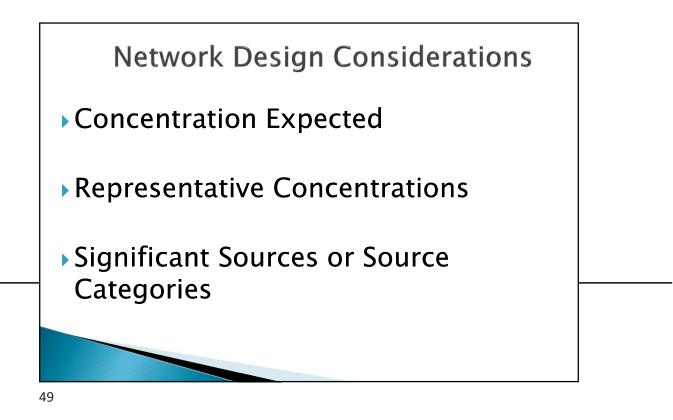


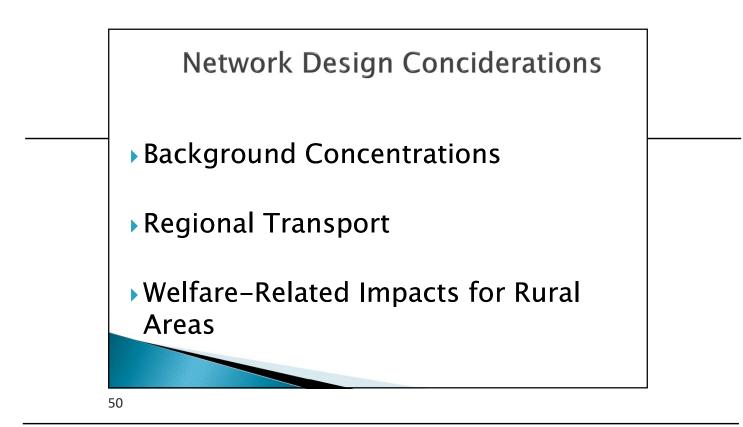


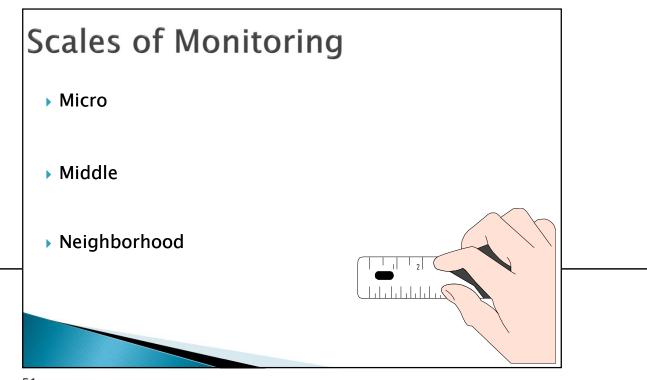




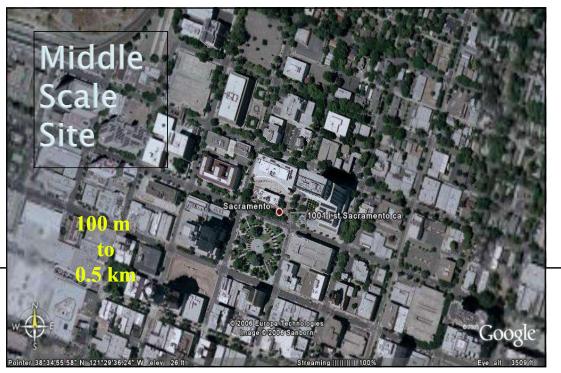


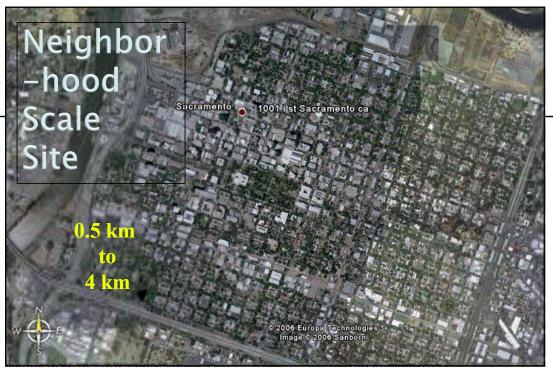


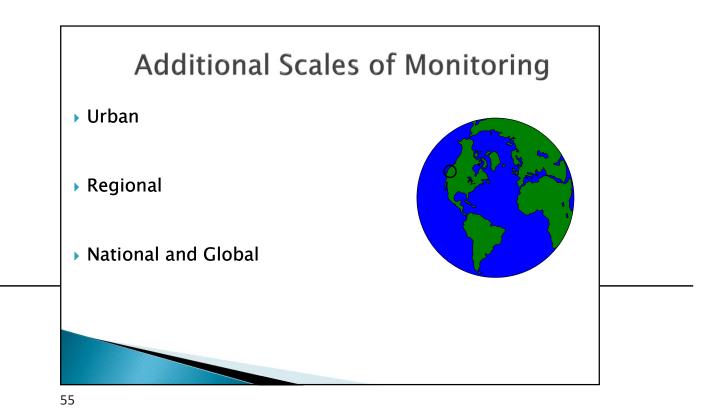








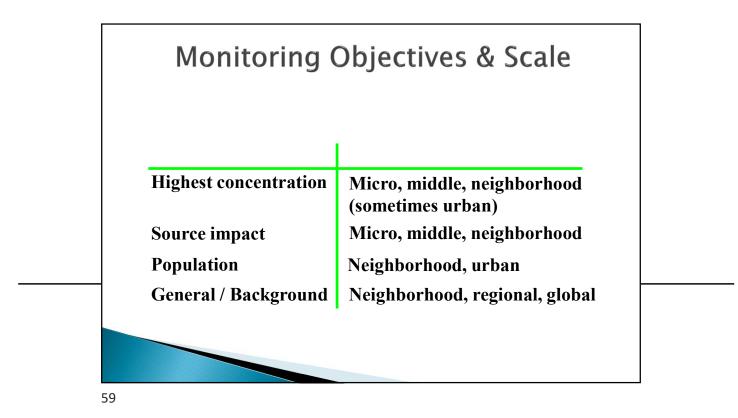


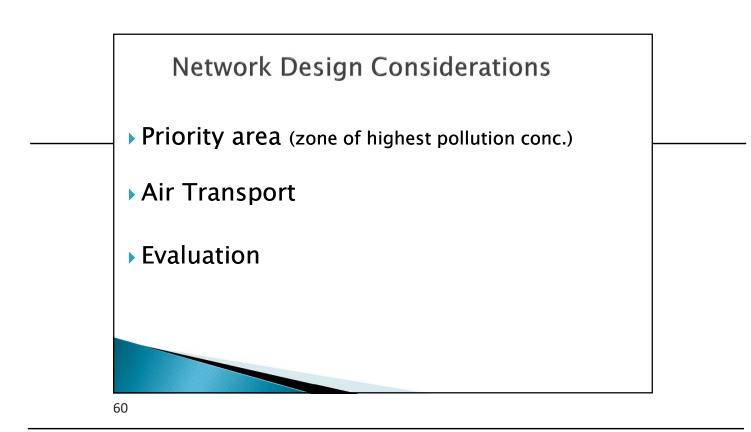


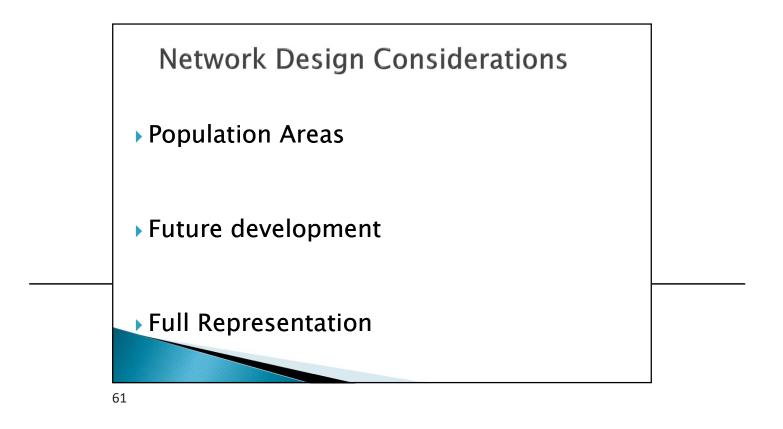


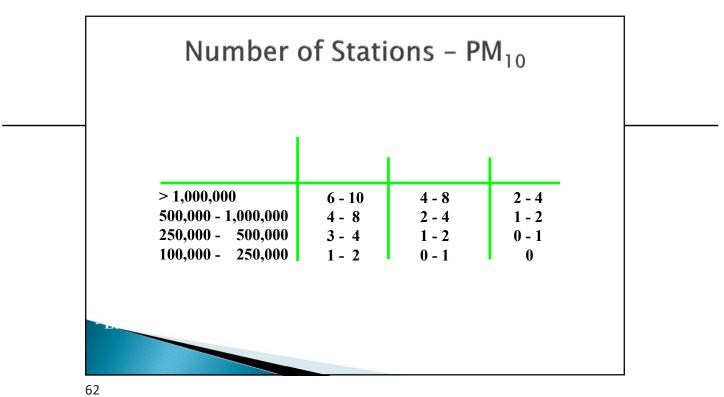




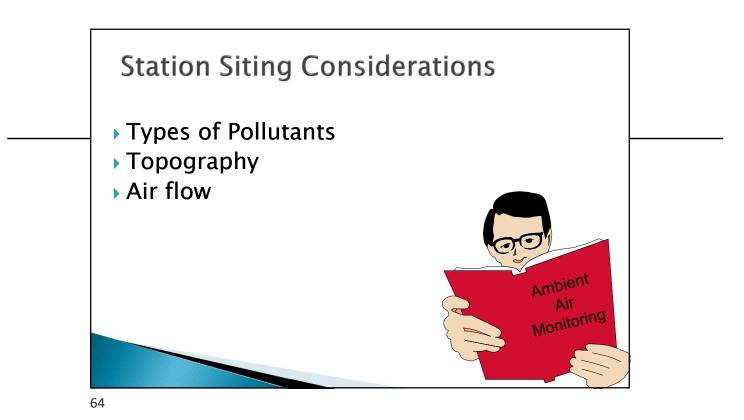


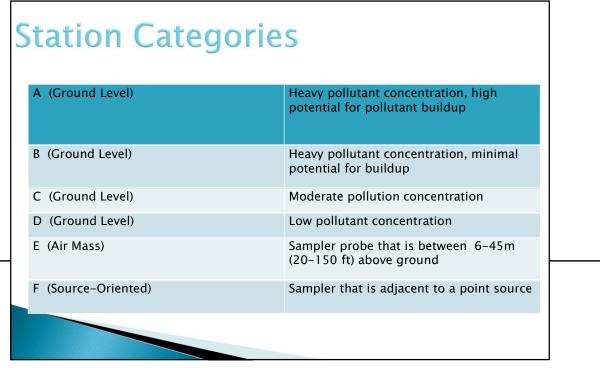


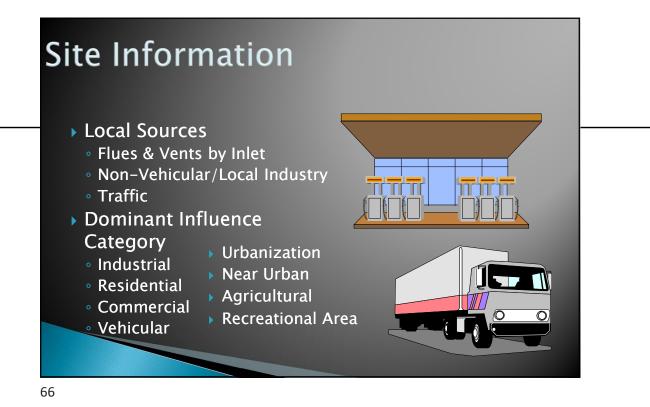




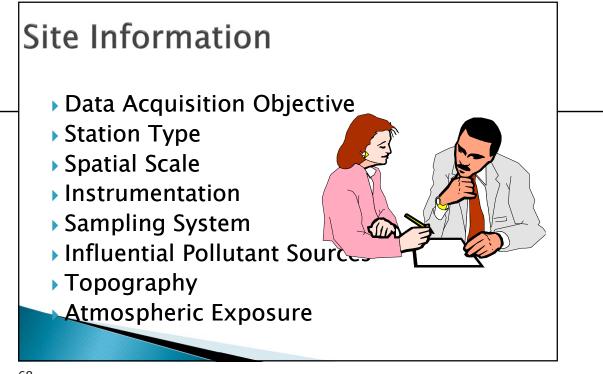


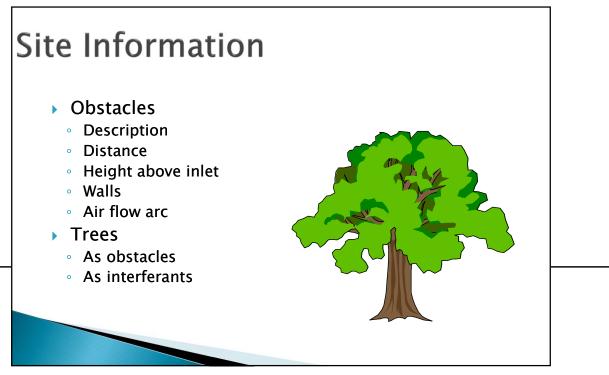


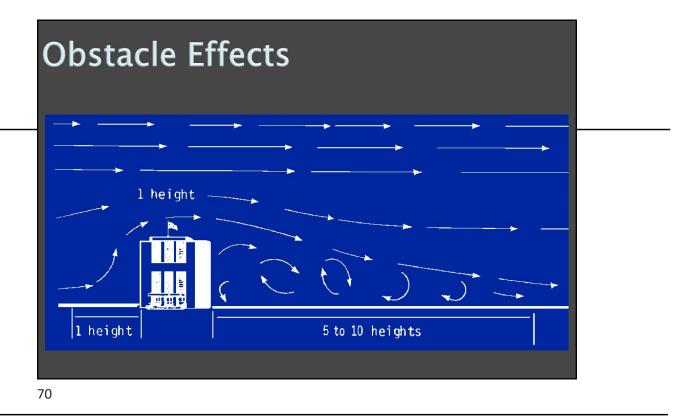






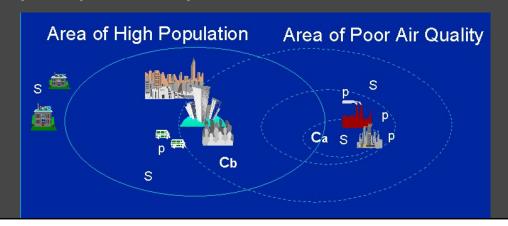






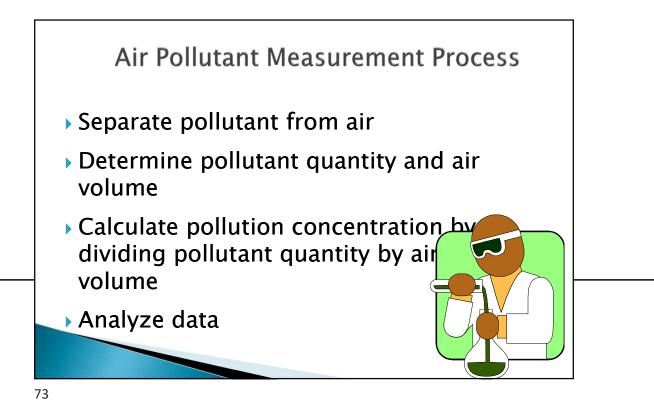
Location of Monitors

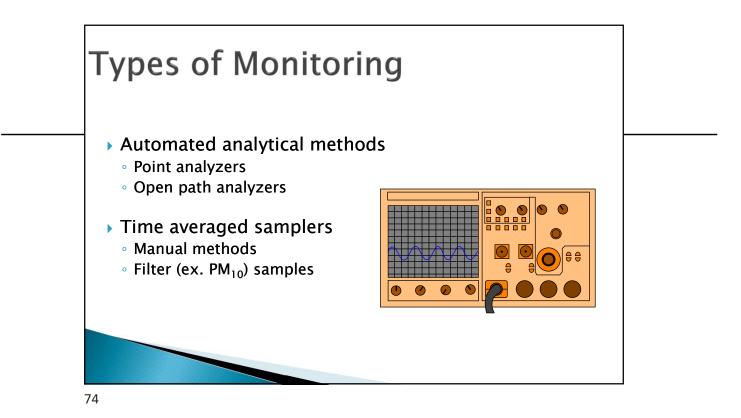
- C = Core site
- ▶ S = SLAMS site
- > p = Special Purpose Monitor

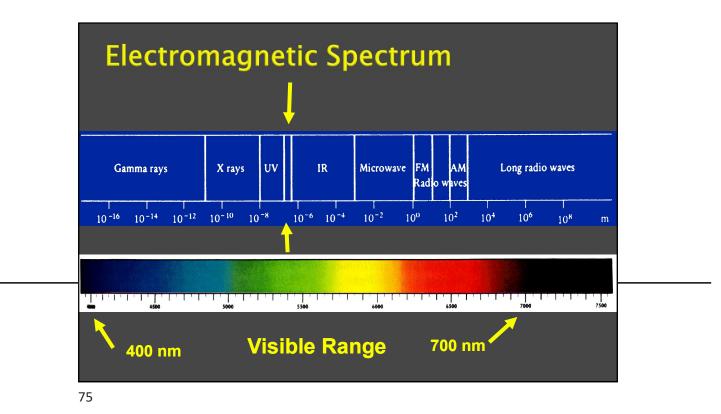


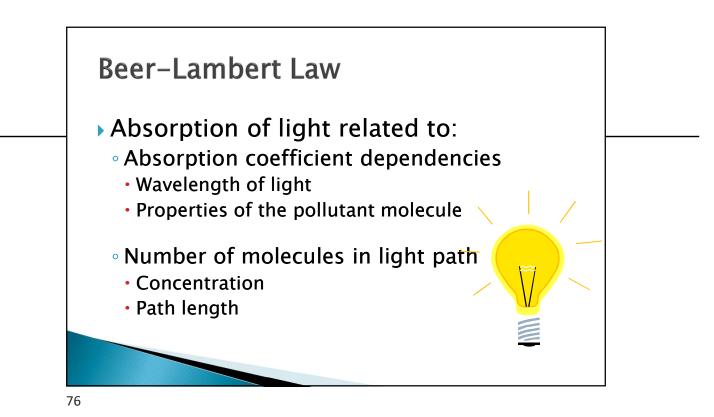
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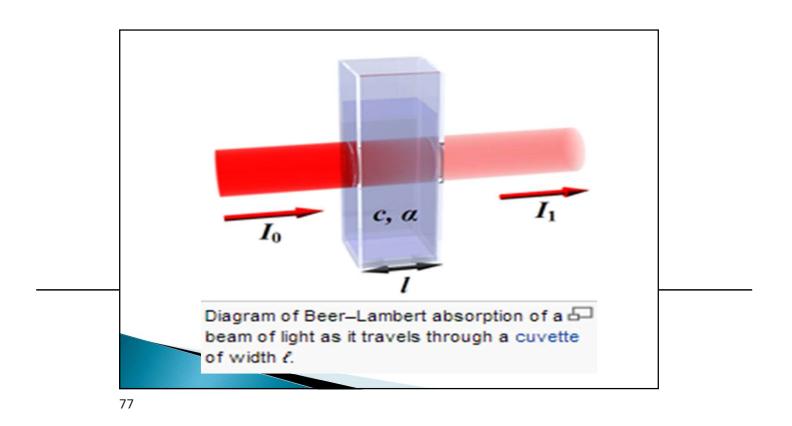


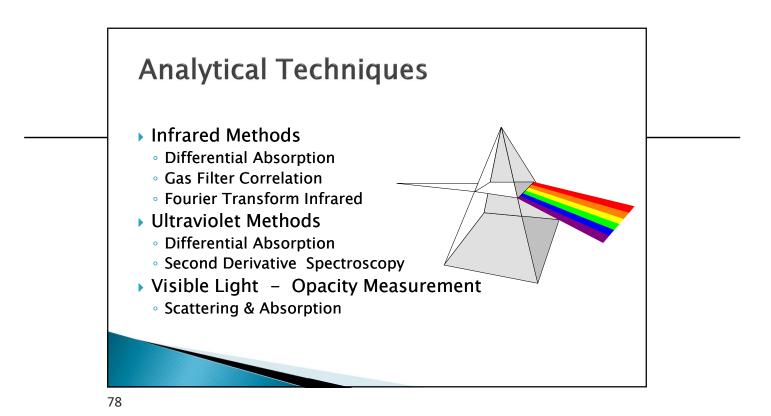


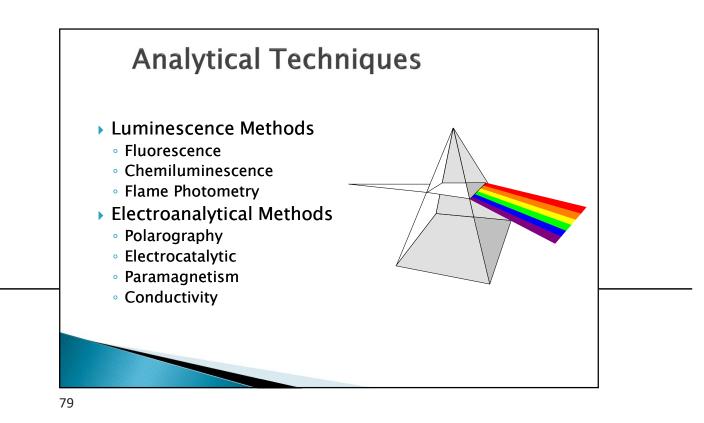


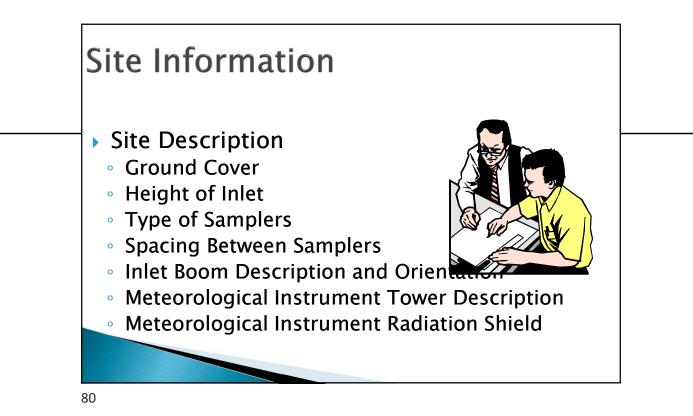


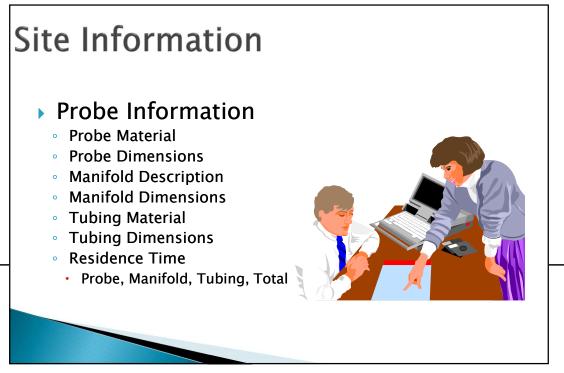






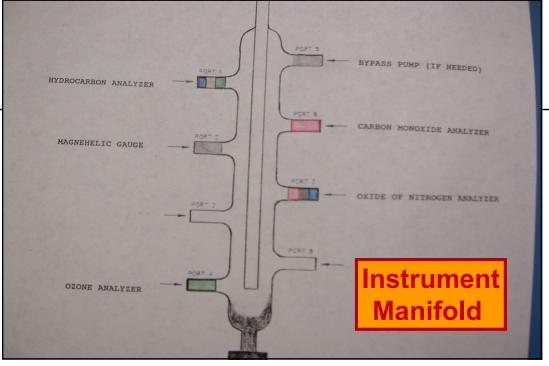


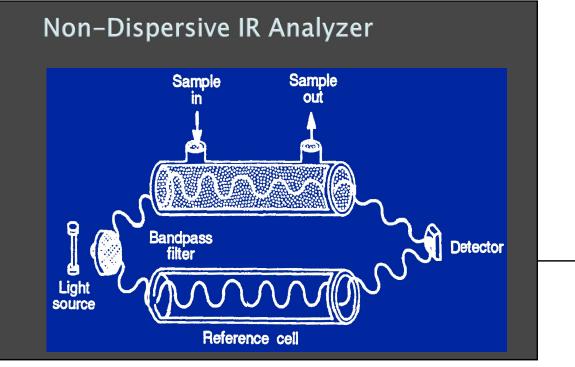






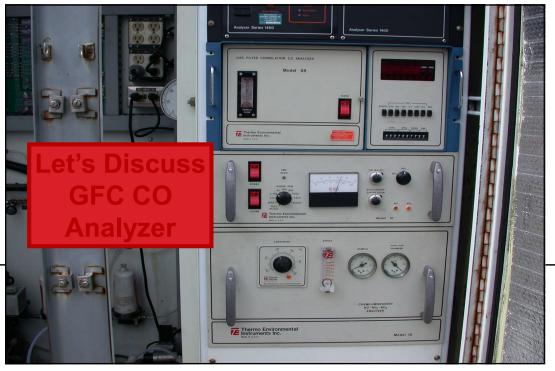


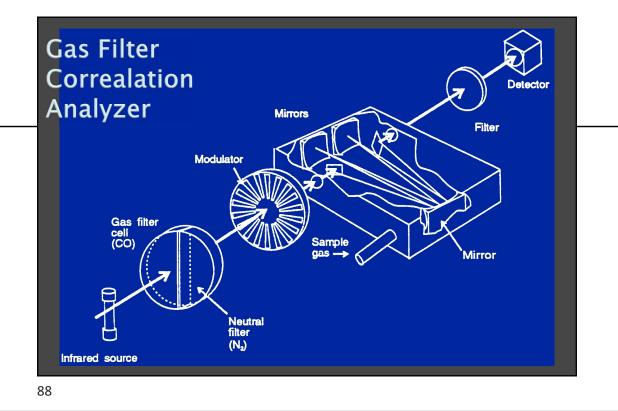




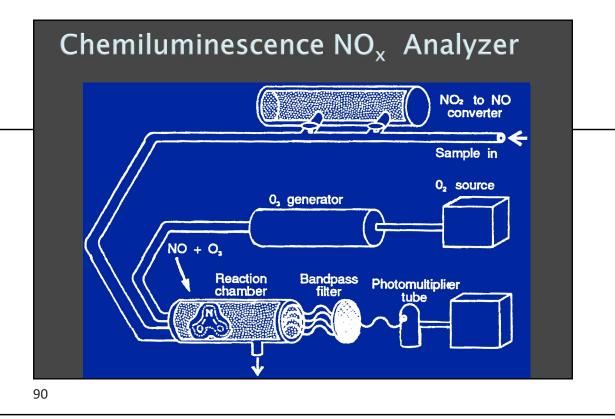


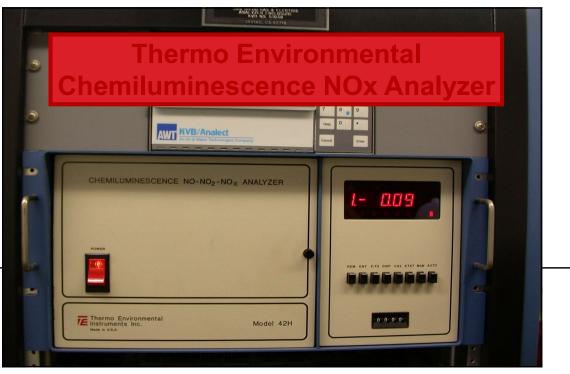
Ambient Air Monitoring

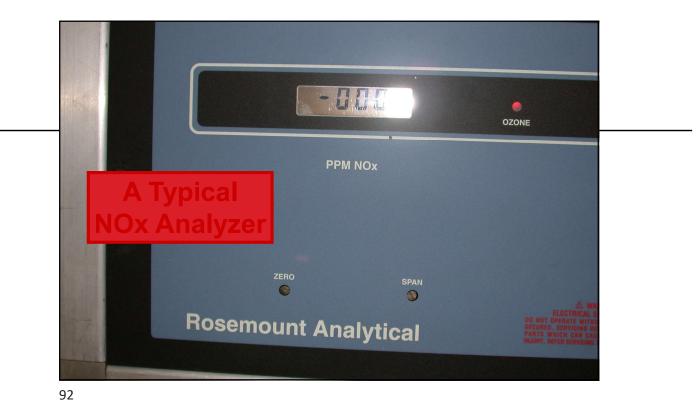




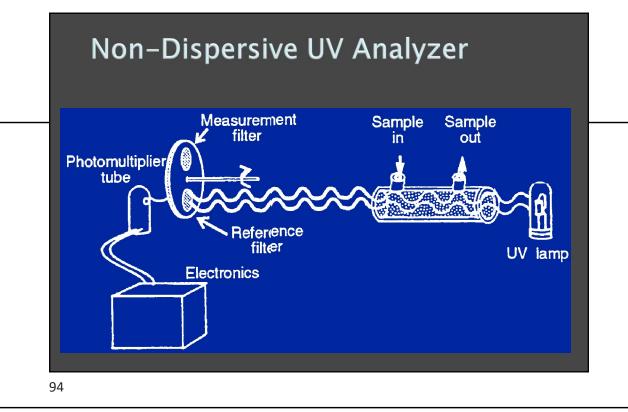


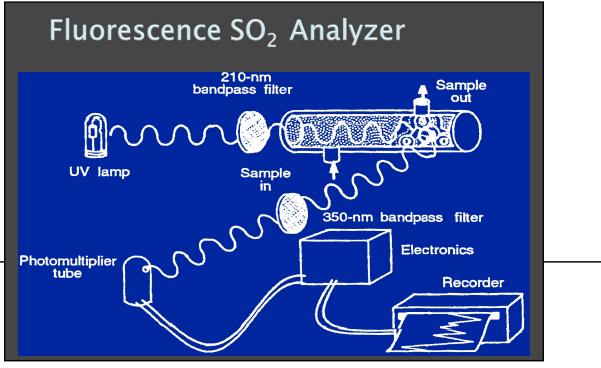




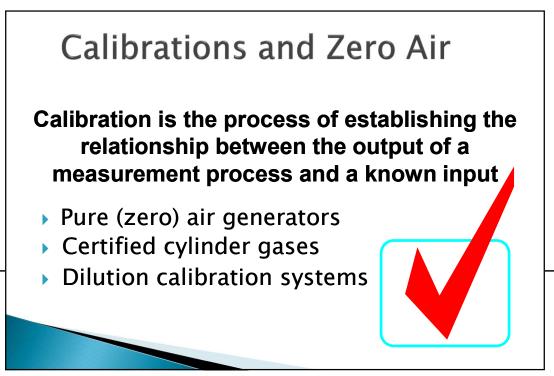






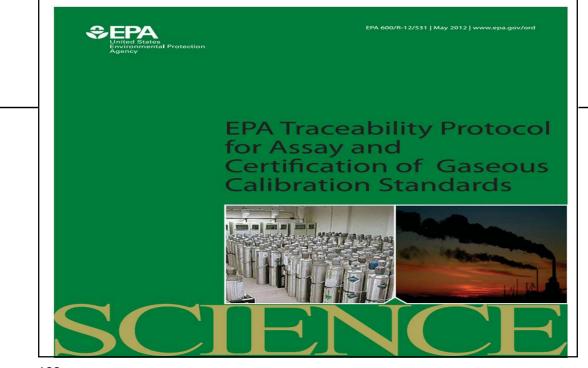


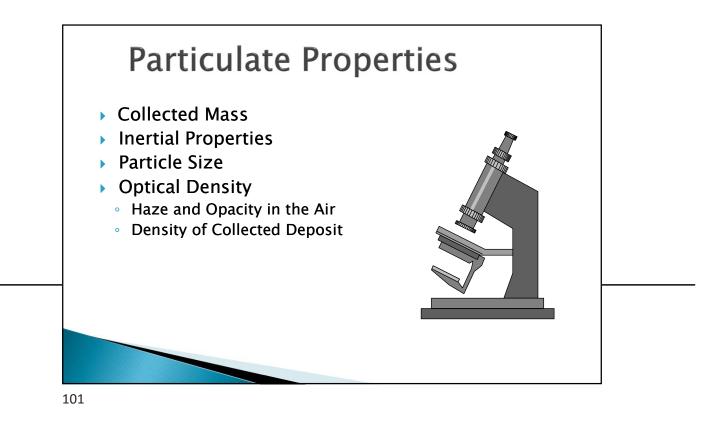


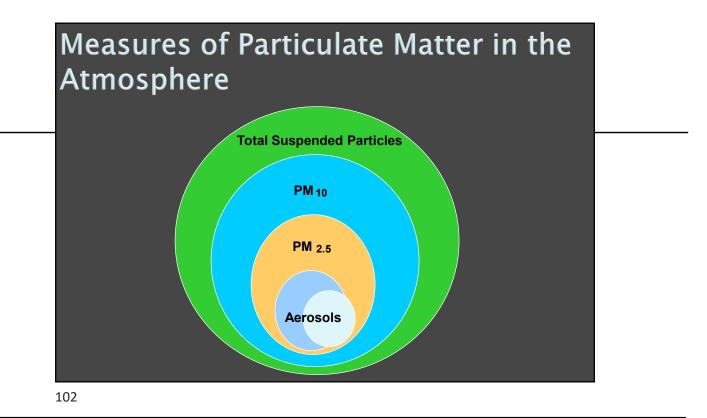


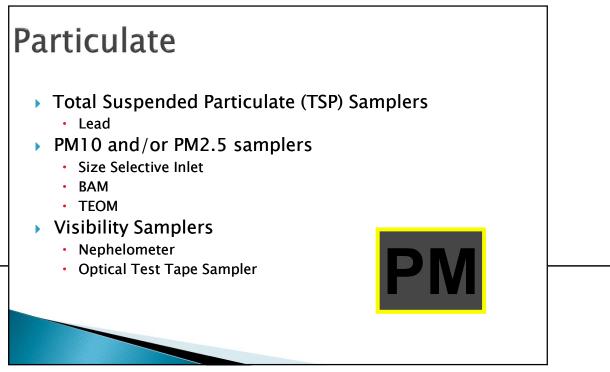




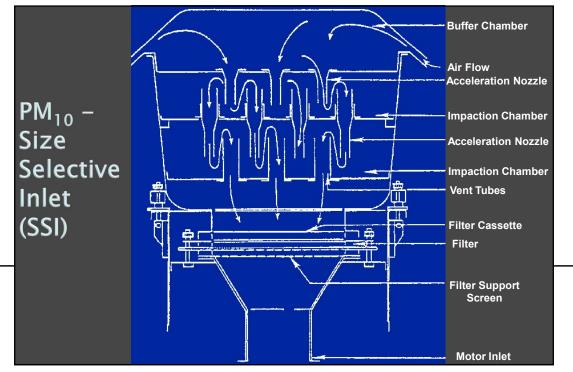










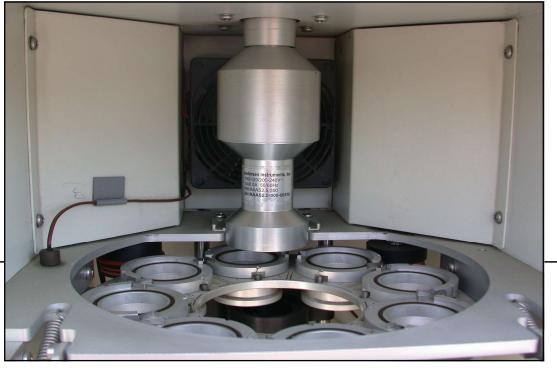


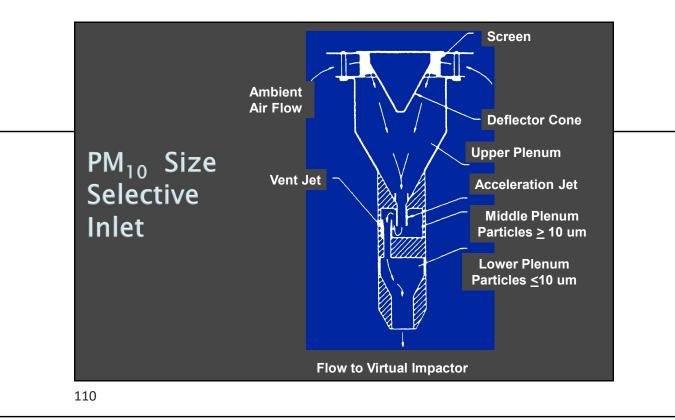




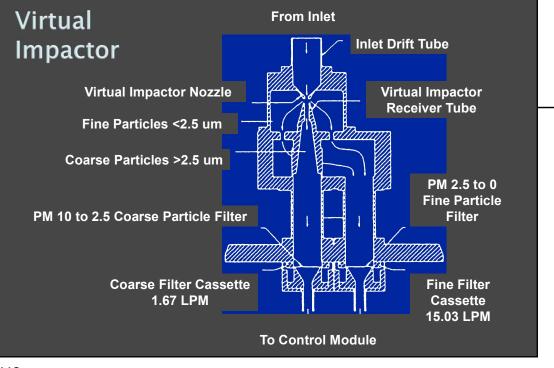


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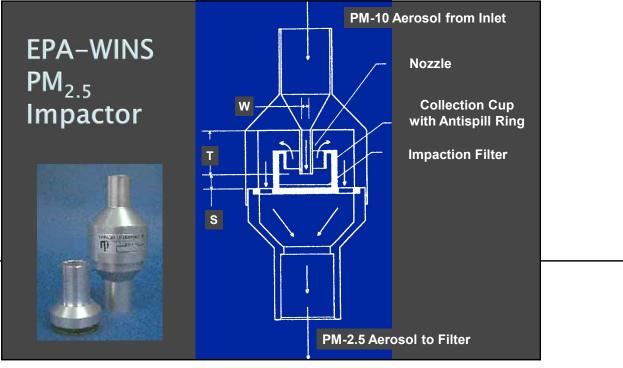




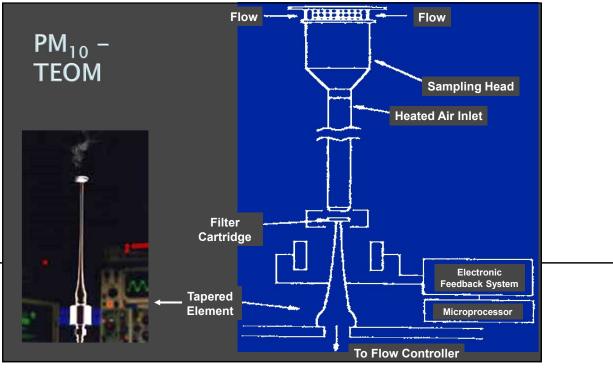


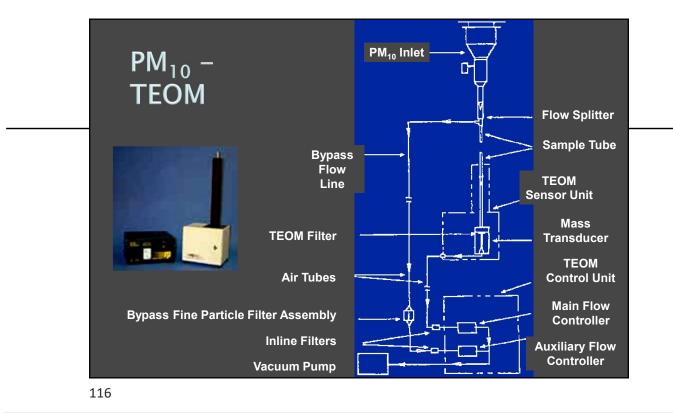


Ambient Air Monitoring





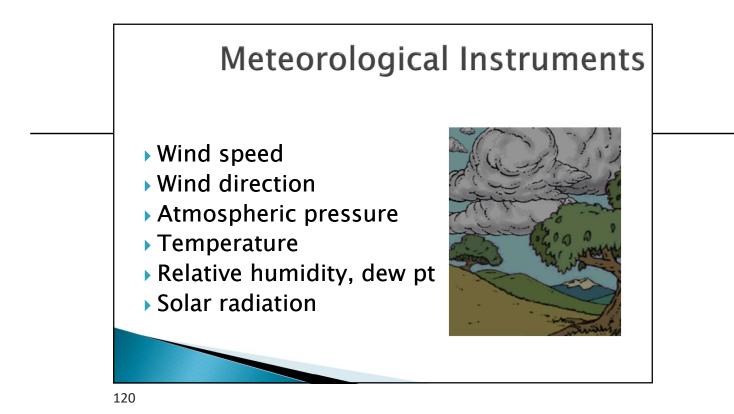






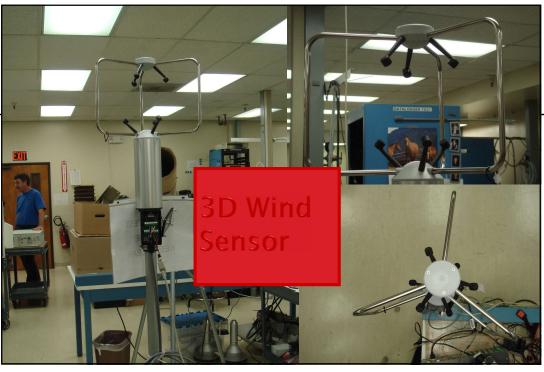




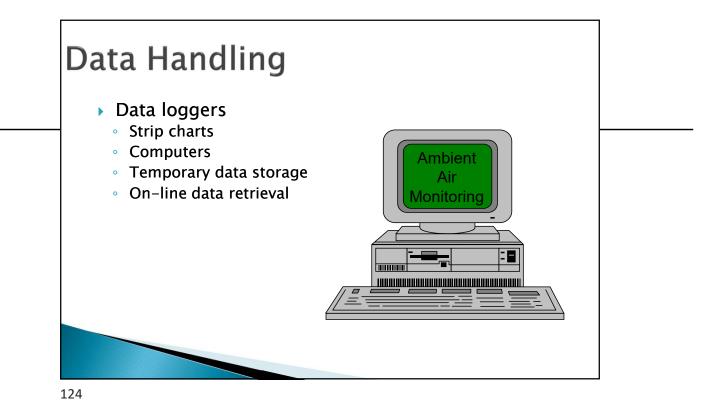


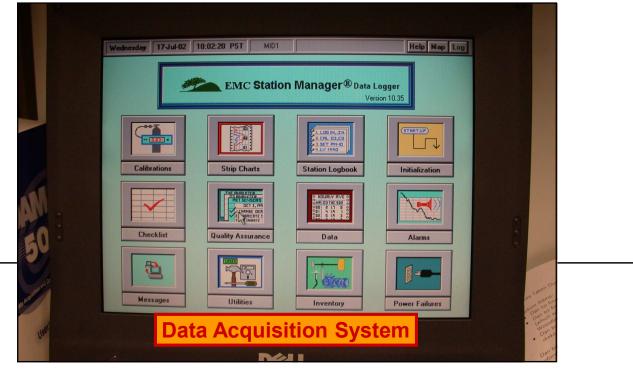
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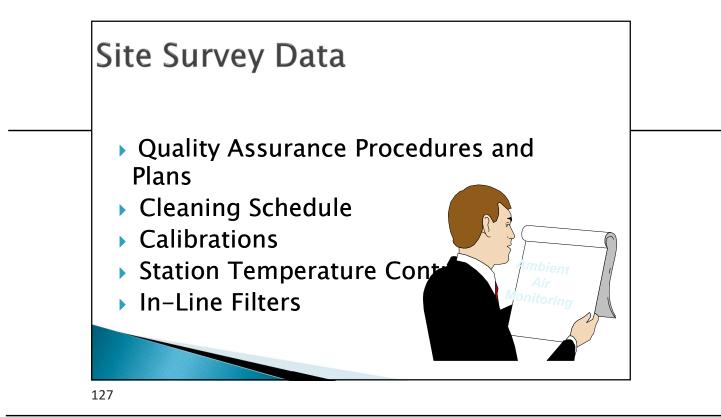


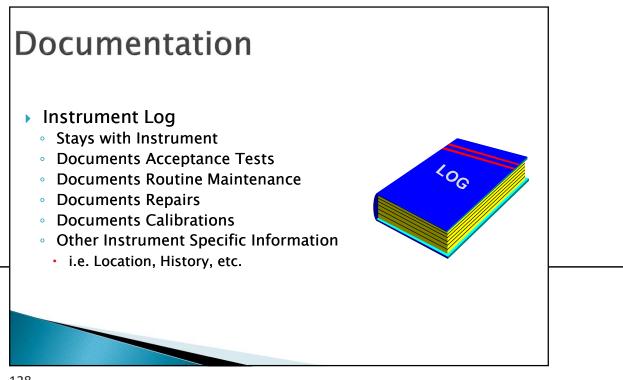


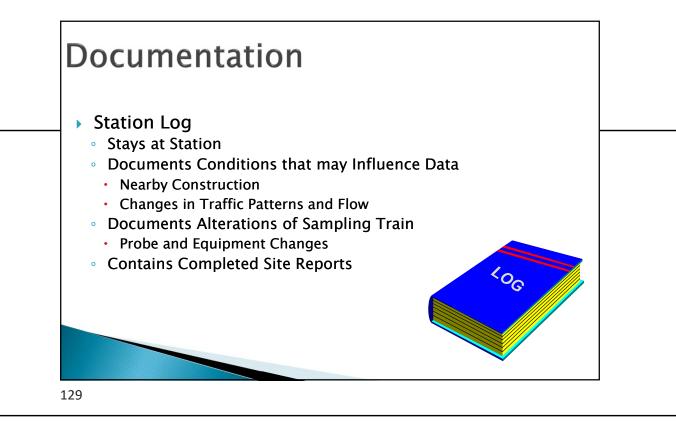










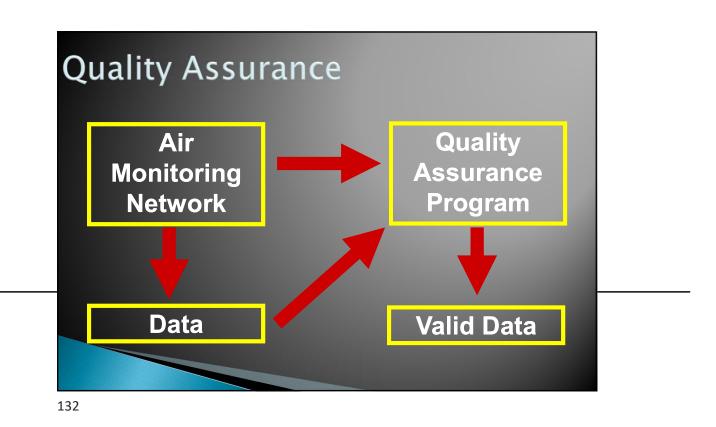


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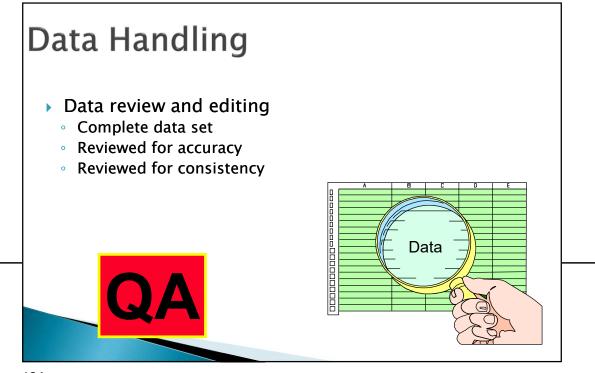


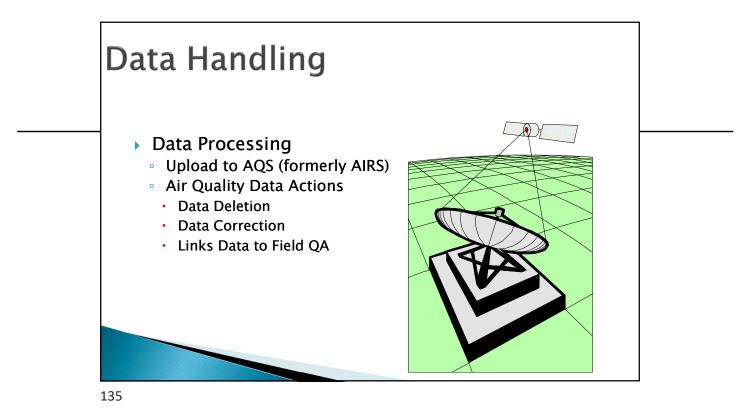


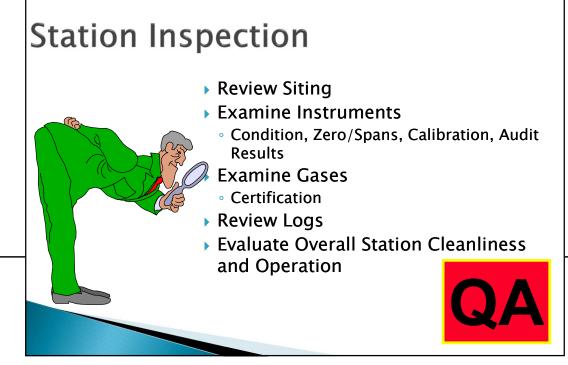








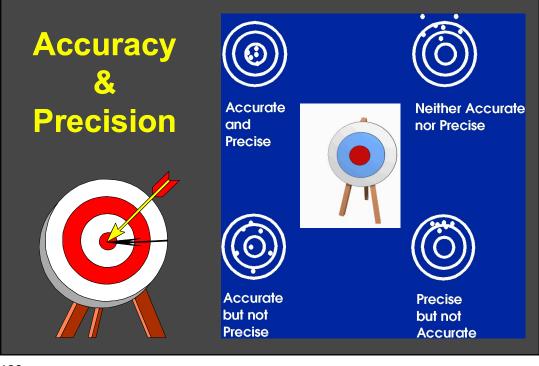


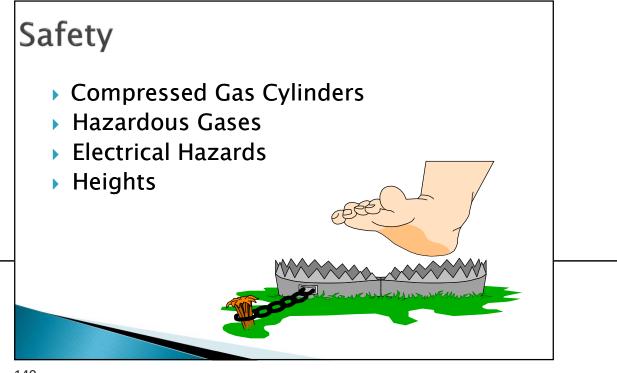




Ambient Air Monitoring













Vear: 2016 Jannual statistics for 2016	are not final until May 1, 2017														
Exceptional Events: Included (if any)		9													
About this report															
TO BE SET AND A DE SECONDA															
EPA Air Quality Standards:															
Carbon Monoxide: 35 ppm (1-hour), 9	9 ppm (8-hou <i>r</i>)														
Nitrogen Dioxide: 100 ppb (1-hour), 5	i3 ppb (annual)														
Ozone: 0.12 ppm (1-hour), 0.070 ppm	n (8-hour)														
Sulfur Dioxide: 75 ppb (1-hour), 140 p															
PM2.5: 35 ug/m3 (24-hour), 12.0 ug/n	m3 (annual)														
PM10: 150 ug/m3 (24-hour)															
Lead: 0.15 ug/m3 (3-month avg)															
Statistics in <mark>red</mark> are above the level of	f the respective air quality sta	ndard.													
The following data links are active for <u>Download PDF (orintable page)</u> <u>Download CSV (spreadsheet)</u>		nen you muser esse													
Download PDF (printable page)		CO 8-far 2nd Max	NO2 9 SBh 9oile	NO2 © Annual Mean	03 1-hr 2nd Max	03 9 & hr 9 & th Max	502 8 99th Nile	SO2 © 24-hr. 2nd Max	502 © Annual Mean	PM2.5 Ø 98th Note	PM2.5 © Witd, Hean	PH10 © 24hr 2nd Max	PH10 Q Annual Mean	Lend Max 3-Mo. Arg	
<u>Download PDF (orintable pare)</u> <u>Download CSV (spreadsheet)</u> To sort a column in the table below, c	click on the column heading.	CO s Star 2nd	NO2 ¢ 988h	0 Annual	e 1-hr 2nd	0 ^{8-hr} 4th	¢ 996h	0 24-hr	0 Annual	¢ 98th	¢ WEd.	¢ 24-hr	0 Annual	e ^{Max} 3-No.	
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		r 2016 are not final u	intil May 1, 2017)											
Exceptional About this r	Events: Included	(if any)												
About this n	eport													
	l <mark>ity Standards:</mark> g/m3 (24-hour), 12.	0 ug/m3 (annual)												
		tive for the next 10 n	inutes, after which	n you must resubmit	your query.									
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© Obs	© First Max	© Second Max	© Third Max	© Fourth Max	Ø 98th Percentile	© Weighted Annual Mean	¢ Exc Events	0 Maritor Number	Ø Site ID	Address	¢ Gity	© County	¢ State	Ø EPA Region
230	20.6	19.9	18.9	18.1	17	83'	None	3	530330030	10th & Weller	Seettle	Ning	WA	10
274	50.2	27	22,4	22.3	22	6.5*	None	3	530330057	4700 East Marginal Way South	Seettle	King	WR	10
88	13.7	11.6	11.3	10.7	12	5.6*	None	1	530330080	4103 Beecon Hill S	Seattle	Vine	WB	10
m	16.2	15.7	15,6	14.8	12	5.21	None	3	530330080	4103 Beacon Hill S	Seattle	King	WA	10
263	52.8	23.7	21.4	18.5	18	5.5*	None	3	530332004	614 Railroad Ave N, Kent	Kent	Nog	WA	10
238	17.6	15.5	15.1	15	15	6.8*	None	5	530530024	1802 S 36th St	Tecome	Pierce	WA	10
255	60.7	31.7	28.8	27.2	2	6.8*	None	1	530530029	7802 South L Street	Tecome	Pierce	WA	10
20	59.1	11.6	9.6	93	59	8.7*	None	2	530530029	7802 South L Street	Tecome	Pierce	WA	10
267	62.3	30.6	27.7	25.4	2	6.4'	None	3	530530029	7802 South L Street	Tecome	Pierce	WA	10
273	22,4	22.2	21,9	19	18	38'	None	3	530610005	6120 2129h St Six, Mountlake Terrace, Wa	Mountfalke Terrace	Shahomish	WA	10
251	43.1	42	35.9	33.3	31	43'	Nose	3	530610020	1085 Fir St	Derrington	Snahomish	WA	10
	37.7	30	28.6	28.1	2	6.4*	None	3	530611007	1799 7th 5	Marysville	Snahomish	WA	10
253														

