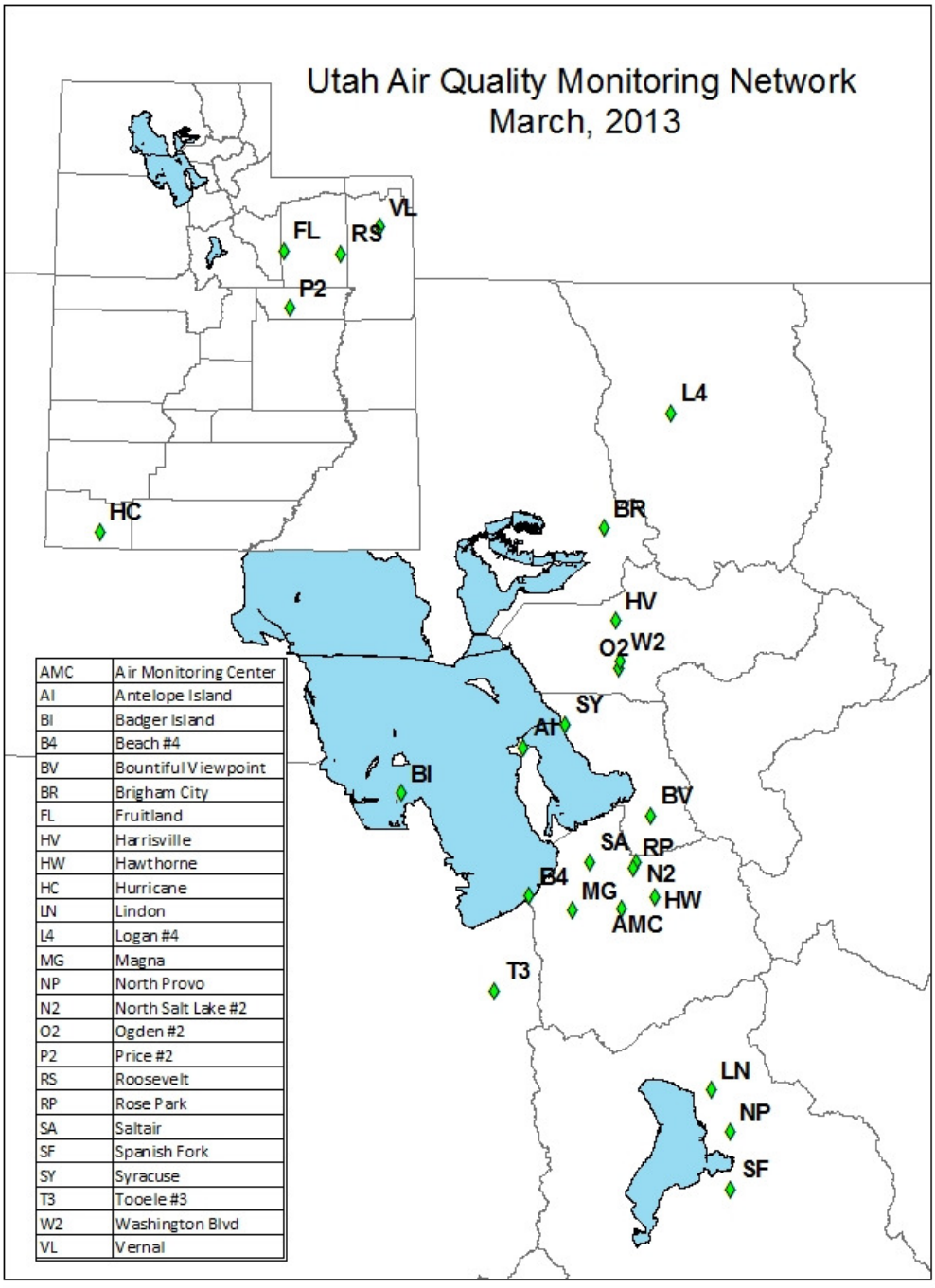
Division of Air Quality

Annual Monitoring Plan 2013

Table of Contents



AMC	Air Monitoring Center
AI	Antelope Island
BI	Badger Island
B4	Beach #4
BV	Bountiful Viewpoint
BR	Brigham City
FL	Fruitland
HV	Harrisville
HW	Hawthorne
HC	Hurricane
LN	Lindon
L4	Logan #4
MG	Magna
NP	North Provo
N2	North Salt Lake #2
O2	Ogden #2
P2	Price #2
RS	Roosevelt
RP	Rose Park
SA	Saltair
SF	Spanish Fork
SY	Syracuse
T3	Tooele #3
W2	Washington Blvd
VL	Vernal

County/site	PM 2.5	co-PM2.5	Real Time PM2.5	PM 10	co-PM10	Real Time PM 10	PM coarse	Spec. PM2.5	Lead	O3	NO2	NOY	SO2	CO	Toxics PAMS	Met
Cache																
Logan	1/1	1/12	X	1/3						X	X					X
Box Elder																
Brigham City	1/3		X							X	X					X
Weber																
Ogden 2	1/3		X	1/3		X				X	XX			X		X
Wash Blvd.														X		
Harrisville	1/3									X						
Davis																
Syracuse																X
Antelope																X
Bountiful	1/3							X		X	X		X	X	X	X
Salt Lake																
NSL 2				1/1	1/12	X							X			X
Rose Park	1/1	1/12														
Hawthorne	1/1		X	1/1		X	1/1	X		X	X	X	X	X	X	X
Magna	1/3			1/3					XX				X			X
Beach										X			X			X
AMC																X
Saltair																X
W Jordan																X
Tooele																
Tooele	1/3									X						X
Badger I																X
Utah																
N Provo	1/1		X	1/3	1/12	X				X	X			X		X
Lindon	1/1	1/12	X	1/3		X		X								X
Spanish Fork	1/3									X						X
Washington																
Hurricane	coming		X	coming		X				X	X					X
Uintah Basin																
Vernal			X							X	X					X
Roosevelt			X							X	X					X
Fruitland										X						X
Price			?							X	X					X

County	EPA AIRS Code	Station Name - Code	Station Address	UTM Coord. Northing	UTM Coord. Easting	Elevation (meters)
Cache County	490050004	Logan - L4	125 West Center St., Logan City	4620024	00430337	1380
Box Elder County	490030003	Brigham City - BR	140 West Fishburn, Brigham City	4593750	00415018	1334
Weber County	490571003	Harrisville - HV	425 West 2550 North, Harrisville	4572719	00417376	1331
	490570006	Washington Blvd - W2	2540 Washington Blvd., Ogden City	4563387	00418734	1314
	490570002	Ogden #2 - O2	228 East 32nd Street, Ogden City	4561914	00418278	1316
Davis County	490110004	Bountiful - BV	171 W. 1370 N, Bountiful	4528150	00425503	1309
		Antelope Island - AI	Great Salt Lake	4543920	00396410	1349
		Syracuse - SY	Great Salt Lake	4549000	00406230	1285
Salt Lake County	490353006	Hawthorne - HW	1675 S. 600 E., Salt Lake City	4509446	00426434	1306
	490352004	Beach - B4	1200 South 12100 West, Magna	4509782	00397751	1284
	490351001	Magna - MG	2935 South 8560 West, Magna	4506581	00407608	1317
	490350012	North Salt Lake - N2	1795 North 1000 West, Salt Lake City	4517371	00422374	1286

	490353010	Rose Park - RP	1400 West Goodwin Ave., Salt Lake City	4506036	00418241	1295
	490353005	Saltair -SA	6640 West 1680 North, Salt Lake City	4517720	00411600	1282
Utah County	490494001	Lindon - LN	50 North Main Street, Lindon	4465406	00439413	1442
	490490002	North Provo - NP	1355 North 200 West, Provo City	4455894	00443606	1402
	490495010	Spanish Fork - SF	312 West 2050 North, Spanish Fork	4442904	00443807	1380
Tooele County	490490003	Tooele - T3	434 North 50 West, Tooele	4488683	00390013	1511
		Badger Island -BI	Great Salt Lake	4533480	00368360	1282
Duchesne County	490131001	Fruitland - FL	6200 South 45000 West, Fruitland, UT	4450945	00513573	2023
	490130002	Roosevelt - RS	290 South 1000 West, Roosevelt, UT	4460894	00584228	1587
Uintah County	490471003	Vernal - VL	220 South 1000 East, Vernal, UT	4479027	00626371	1605
Carbon County	490071003	Price - P2	351 South 2500 East, Price, UT	4382922	00519748	1740
Washington County	490530007	Hurricane - HC	147 North 870 West, Hurricane, UT	4117218	00295359	992

Site:	Air Monitoring Center (AM)	**Longitude:**	111.9612	**Station Type:**	SPM
AQS#:	49-035-3011	**Latitude:**	40.7118	**MSA:**	Salt Lake City
Address:	2861 West Parkway Blvd.	**Elevation (M):**	1292		
City:	West Valley				
County:	Salt Lake				

Site Objective:
This site is established to determine mercury in wet deposition and dry deposition.
Does the site meet the objective:
Yes, all objectives are met.
Site Description:
The site is located at the Air Monitoring Center, in the city of West Valley, Salt Lake County.
Can data from this site be used to evaluate NAAQS ?: No

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Dry Dep. Mercury	Cold Vapor Atomic Absorption	Continuous	Population Exposure	SPM- Transport Regional
Wet Dep. Mercury	Manual NADP MDN	Integrated 7 day	Population Exposure	SPM- Transport Regional
Ammonia	Manual NADP AMoN	Integrated 14 day	Population Exposure	SPM- Transport Regional

Meteorological Parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Pressure	Barometric Pressure Transducer	Continuous	2 meters	Urban
Relative Humidity	Elec. Thin Film	Continuous	4 meters	Urban
Leaf Wetness		Continuous	4 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	4 meters	Urban
Wind Direction	Sonic 2D	Continuous	4 meters	Urban
WD Sigma	Elec. EPA method	Continuous	4 meters	Urban
Wind Speed	Sonic 2D	Continuous	4 meters	Urban

Site:	Antelope Island (AI)	**Longitude:**	112.2313	**Station Type:**	SPM
AQS#:	49-011-6001	**Latitude:**	41.0393	**MSA:**	Salt Lake City
Address:	Antelope Island	**Elevation (M):**	1359		
City:	Not in a city				
County:	Davis				

Site Objective:
This site is established to collect meteorological information for air quality modeling.

Does the site meet the objective:
Yes, all objectives are met.

Site Description:
The site is on Antelope Island State Park, near the ranger residences, in Davis County.

Can data from this site be used to evaluate NAAQS ?:
No

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Relative Humidity	Elec. Thin Film	Continuous	6 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	6 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	6 meters	Urban
WD Sigma	Elec. EPA method	Continuous	6 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	6 meters	Urban

Site:	Badger Island (BI)	**Longitude:**	112.5620	**Station Type:**	SPM
AQS#:	49-045-6001	**Latitude:**	40.9420	**MSA:**	Salt Lake City
Address:	Badger Island	**Elevation (M):**	1282		
City:	Not in a city				
County:	Tooele				

Site Objective:

This site is established to collect meteorological information for air quality modeling.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located on the south end of the Great Salt Lake on the remnants of Badger Island in Tooele County.

Can data from this site be used to evaluate NAAQS ?: No

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Precipitation	Tipping cup	Continuous	2 meters	Urban
Relative Humidity	Elec. Thin Film	Continuous	10 meters	Urban
Solar Radiation	Elec. LiCor	Continuous	2 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	Beach #4 (B4)	**Longitude:**	112.2103	**Station Type:**	SLAMS
AQS#:	49-035-2004	**Latitude:**	40.7342	**MSA:**	Salt Lake City
Address:	12100 West 1200 South	**Elevation (M):**	1284		
City:	Magna				
County:	Salt Lake				

Site Objective:

This site is established to determine SO_2 concentrations from the Kennecott Copper smelter. Ozone is monitored based on an ozone saturation study and the interaction with the Great Salt Lake.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located at the Great Salt Lake Marina on the south east end of the Great Salt Lake.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Sulfur Dioxide	Instrumental Pulsed Florescent	Continuous	Industrial Exposure	SLAMS-High Neighborhood
Ozone	Instrumental Ultra Violet	Seasonal	Population Exposure	SLAMS-High Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	Bountiful Viewmont (BV)	**Longitude:**	111.8845	**Station Type:**	SLAMS
AQS#:	49-011-0004	**Latitude:**	40.903	**MSA:**	Salt Lake City
Address:	1380 North 200 West	**Elevation (M):**	1309		
City:	Bountiful				
County:	Davis				

Site Objective:

The Bountiful Viewmont site is established to determine public exposure to air pollution. The site also monitors the ambient air near the oil refineries and local sand and gravel operations. Previous monitoring and saturation studies have recorded high ozone concentrations. This site is chosen for intensive speciation of PM2.5 under the EPA Chemical Speciation Network (CSN) and gaseous Volatile Organic Compounds under the EPA National Air Toxics Trends Network (NTTN) including hexavalent chromium and carbonyl compounds. Nitrogen dioxide is monitored in support of the ozone monitoring.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located near Viewmont High School at the north end of the city of Bountiful, Davis County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Nitrogen Dioxide	Instrumental Chemiluminescence	Continuous	Population Exposure	SLAMS- Population Neighborhood
Ozone	Instrumental Ultra Violet	Seasonal	Population Exposure	SLAMS-High Neighborhood
Sulfur Dioxide	Instrumental Pulsed Florescent	Continuous	Industrial Exposure	SLAMS-Impact Neighborhood
$PM_{2.5}$	Manual Gravimetric	1 in 3 days	Population Exposure	SLAMS- Population Neighborhood
PM_{10} metals	Manual Gravimetric	1 in 6 days	Population Exposure	SLAMS- Population Neighborhood
PM_{10} metals co-located	Manual Gravimetric	6 samples/year	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$ Speciation	Manual EPA CSN	1 in 6 days	Population Exposure	SLAMS- Population Neighborhood
VOC	Manual EPA NTTN	1 in 6 days	Population Exposure	SLAMS- Population Neighborhood
Semi-volatile	Manual EPA NTTN	1 in 6 days	Population Exposure	SLAMS- Population Neighborhood
Carbonyl compounds	Manual EPA NTTN	1 in 6 days	Population Exposure	SLAMS- Population Neighborhood
Hexavalent Chromium	Manual EPA NTTN	1 in 6 days	Population Exposure	SLAMS- Population Neighborhood
Black Carbon	Aethalometer	Continuous	Population Exposure	SLAMS- Population Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Pressure	Barometric Pressure Transducer	Continuous	1 meter	Urban
Relative Humidity	Elec. Thin Film	Continuous	10 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	Brigham City (BR)	**Longitude:**	112.0176	**Station Type:**	SLAMS
AQS#:	49-003-0003	**Latitude:**	41.4929	**MSA:**	Not in an MSA, but is in the Salt Lake-Ogden-Clearfield CSA
Address:	140 West Fishburn Dr.	**Elevation (M):**	1334		
City:	Brigham City				
County:	Box Elder				

Site Objective:
This site is established to determine the boundary of ozone concentrations greater than the NAAQS and PM2.5 comparison to Cache County.

Does the site meet the objective:
Yes, all objectives are met.

Site Description:
The site is located in a neighborhood area of Brigham City in Box Elder County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Ozone	Instrumental Ultra Violet	Seasonal	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$	Manual Gravimetric	1 in 3 days	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$ Real time	Instrumental TEOM FDMS	Continuous	Population Exposure	SLAMS- Population Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site: Fruitland (FL) **Longitude:** -110.8403 **Station Type:** Slams

AQS#: 49-013-1001 **Latitude:** 40.2087 **MSA:** Not in an MSA

Address: 6200 South 45000 West **Elevation (M):** 2021

City: Fruitland

County: Duchesne

Site Objective:

This site is established in response to a three state ozone study. This site is funded by and operated for the Bureau of Land Management

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

This site is located in a farm field 400 meters south of Utah highway 40. 0.4km SE of Fruitland

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Ozone	Instrumental Ultra Violet	Continuous	High ozone winter study	Regional
Nitrogen Dioxide	Instrumental Chemiluminescence	Continuous	High ozone winter study	Regional

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Regional
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Regional
WD Sigma	Elec. EPA method	Continuous	10 meters	Regional
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Regional
Barometric pressure	Pressure transducer	Continuous	2 meters	Regional

Site:	Harrisville (HV)	**Longitude:**	111.9865	**Station Type:**	Slams
AQS#:	49-057-1003	**Latitude:**	41.3028	**MSA:**	Ogden-Clearfield
Address:	425 West 2550 North	**Elevation (M):**	1331		
City:	Harrisville				
County:	Weber				

Site Objective:
This site is established in response to an ozone saturation study indicating this as a potentially high ozone concentration area.

Does the site meet the objective:
Yes, all objectives are met.

Site Description:
The site is located on the grounds of an elementary school in the city of Harrisville, Weber County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Ozone	Instrumental Ultra Violet	Seasonal	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$	Manual Gravimetric	1 in 3 days	Population Exposure	SLAMS- Population Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	Hawthorne (HW)	**Longitude:**	111.8721	**Station Type:**	SLAMS
AQS#:	49-035-3006	**Latitude:**	40.7343	**MSA:**	Salt Lake City
Address:	1675 South 600 East	**Elevation (M):**	1306		
City:	Salt Lake City				
County:	Salt Lake				

Site Objective:

This site is established to represent the population exposure in the Salt Lake City area. The Hawthorne site is also the EPA NCore site for Utah.

Does the site meet the objective:

Yes, all current objectives are met. Ncore monitoring began January 2011.

Site Description:

The site is located at Hawthorne Elementary School in the southeast section of Salt Lake City, Salt Lake County .

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Carbon Monoxide, trace	Instrumental Gas Phase Correlation	Continuous	Population Exposure	SLAMS- High Neighborhood
Nitrogen Dioxide	Instrumental Chemiluminescence	Continuous	Population Exposure	SLAMS- High Neighborhood
Ozone	Instrumental Ultra Violet	Continuous	Population Exposure	SLAMS- High Neighborhood
NOY trace level	Instrumental Chemiluminescence	Continuous	Population Exposure	SLAMS- Population Neighborhood
SO2 trace level	Pulsed fluorescence	Continuous	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$	Manual Gravimetric	Daily	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$ Speciation	Manual EPA CSN	1 in 3 days	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$ Real time N-core	Instrumental TEOM FDMS	Continuous	Air Pollution Index	SLAMS- Population Neighborhood
PM_{10}	Manual Gravimetric	Daily	Population Exposure	SLAMS- Population Neighborhood
PM_{10} Real time N-core	Instrumental TEOM FDMS	Continuous	Air Pollution Index	SLAMS- Population Neighborhood
PM_{coarse}	Manual Gravimetric subtraction	Daily	Population Exposure	SLAMS- Population Neighborhood
Organic & Elemental Carbon	Instrumental Semi-continuous NIDR	Continuous	Population Exposure	SLAMS- Population Neighborhood
PAMS C2 to C 12	Instrumental gas chromatography	Continuous	Ozone modeling input	Population Neighborhood
Visibility	Instrumented	Continuous	Public Information	Population Neighborhood

Meteorological Parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Pressure	Barometric Pressure Transducer	Continuous	3 meters	Urban
Relative Humidity	Elec. Thin Film	Continuous	10 meters	Urban
Solar Radiation	Elec. EPPLY	Continuous	4 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site: Hurricane (HC) **Longitude:** 113.3052 **Station Type:** SLAMS

AQS#: 49-053-0007 **Latitude:** 37.179 **MSA:** St. George

Address: 147 North 870 West **Elevation (M):** 992

City: Hurricane

County: Washington

Site Objective:

This site is established to determine population exposure to ozone in Washington County.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

This site is located behind the Hurricane City offices. This site replaces Santa Clara.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Ozone	Instrumental Ultra Violet	Continuous	High winter ozone study	Regional
Nitrogen Dioxide	Instrumental Chemiluminescence	Continuous	High winter ozone study	Regional
$PM_{2.5}$	Teom 1405 df	Continuous	AQI	SLAMS- Population Neighborhood
PM_{10}	Teom 1405 df	Continuous	AQI	SLAMS- Population Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Regional
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Regional
WD Sigma	Elec. EPA method	Continuous	10 meters	Regional
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Regional
Barometric pressure	Pressure transducer	Continuous	2 meters	Regional

Site:	Lindon (LN)	**Longitude:**	111.7133	**Station Type:**	SLAMS
AQS#:	49-049-4001	**Latitude:**	40.3396	**MSA:**	Provo-Orem
Address:	50 North Main	**Elevation (M):**	1402		
City:	Lindon				
County:	Utah				

Site Objective:

This site is established to determine particulate matter from commercial and industrial sources. Historically, this site has reported the highest particulate matter values in Utah County.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located at the Lindon Elementary School in the City of Lindon, Utah County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
$PM_{2.5}$	Manual Gravimetric	Daily	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$	Manual Gravimetric co-located	1 in 12 days	Precision and accuracy assessment	SLAMS- Population Neighborhood
$PM_{2.5}$ Speciation	Manual EPA CSN	1 in 6 days	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$ Real time	Instrumental TEOM FDMS	Continuous	Air Pollution Index	SLAMS- Population Neighborhood
PM_{10}	Manual Gravimetric	Daily	Population Exposure	SLAMS-Impact Neighborhood
PM_{10} Real time	Instrumental TEOM	Continuous	Air Pollution Index	SLAMS-Impact Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Relative Humidity	Elec. Thin Film	Continuous	10 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	Logan #4 (L4)	**Longitude:**	111.8382	**Station Type:**	SLAMS
AQS#:	49-005-0004	**Latitude:**	41.731	**MSA:**	Logan
Address:	125 West Center Street	**Elevation (M):**	1380		
City:	Logan				
County:	Cache				

Site Objective:
This site is established to determine general population exposure based on increased population.

Does the site meet the objective:
Yes, all objectives are met.

Site Description:
The site is located downtown in the City of Logan, Cache County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Nitrogen Dioxide	Instrumental Chemiluminescence	Continuous	Population Exposure	SLAMS- Population Neighborhood
Ozone	Instrumental Ultra Violet	Continuous	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$	Manual Gravimetric	Daily	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$	Manual Gravimetric co-located	1 in 12 days	Precision and accuracy assessment	SLAMS- Population Neighborhood
$PM_{2.5}$ Real time	Instrumental TEOM FDMS	Continuous	Air Pollution Index	SLAMS- Population Neighborhood
PM_{10}	Manual Gravimetric	1 in 3 days	Population Exposure	SLAMS- High Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Relative Humidity	Elec. Thin Film	Continuous	10 meters	Urban
Solar Radiation	LiCor	Continuous	10 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	Magna (MG)	**Longitude:**	112.0947	**Station Type:**	SLAMS
AQS#:	49-035-1001	**Latitude:**	40.7068	**MSA:**	Salt Lake City
Address:	2935 South 8560 West	**Elevation (M):**	1317		
City:	Magna				
County:	Salt Lake				

Site Objective:

This site is established to determine SO_2 , particulate matter, and lead (Pb) concentrations from the Kennecott smelter.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located on the roof of Brockbank Junior High School in the city of Magna, located in western Salt Lake County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Sulfur Dioxide	Instrumental Pulsed Florescent	Continuous	Industrial Exposure	SLAMS-Impact Neighborhood
$PM_{2.5}$	Manual Gravimetric	1 in 3 days	Population Exposure	SLAMS- Population Neighborhood
PM_{10}	Manual Gravimetric	1 in 3 days	Population Exposure	SLAMS-High Neighborhood
Pb	Manual Gravimetric/EPA method 6020A	1 in 6 days	Population Exposure	SLAMS-High Neighborhood
Pb co-located	Manual Gravimetric/EPA method 6020A	1 in 12 days	Population Exposure	SLAMS-High Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	North Provo (NP)	**Longitude:**	111.6633	**Station Type:**	SLAMS
AQS#:	49-049-0002	**Latitude:**	40.2538	**MSA:**	Provo-Orem
Address:	1355 North 200 West	**Elevation (M):**	1402		
City:	Provo				
County:	Utah				

Site Objective:

This site is established to determine population exposure to air pollutants.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located at north end of the City of Provo, Utah County. It is located on the grounds of the Dale Rex Army National Guard Armory.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Carbon Monoxide	Instrumental Gas Phase Correlation	Continuous	Population Exposure	SLAMS- Population Neighborhood
Nitrogen Dioxide	Instrumental Chemiluminescence	Continuous	Population Exposure	SLAMS- High Neighborhood
Ozone	Instrumental Ultra Violet	Continuous	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$	Manual Gravimetric	Daily	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$ Real time	Instrumental TEOM FDMS	Continuous	Air Pollution Index	SLAMS- Population Neighborhood
PM_{10}	Manual Gravimetric	1 in 3 days	Population Exposure	SLAMS- Population Neighborhood
PM_{10}	Manual Gravimetric co-located	1 in 12 days	Precision and accuracy assessment	SLAMS- Population Neighborhood
PM_{10} Real time	Instrumental TEOM FDMS	Continuous	Air Pollution Index	SLAMS- Population Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	North Salt Lake #2 (N2)	**Longitude:**	111.921	**Station Type:**	SLAMS
AQS#:	49-035-0012	**Latitude:**	40.8055	**MSA:**	Salt Lake City
Address:	1795 North Warm Springs Rd.	**Elevation (M):**	1286		
City:	Salt Lake				
County:	Salt Lake				

Site Objective:

This site is established to determine SO_2 concentrations near the petroleum refineries.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located in the City of Salt Lake, in Salt Lake County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Sulfur Dioxide	Instrumental Pulsed Florescent	Continuous	Industrial Exposure	SLAMS-High Middle Neighborhood
PM_{10}	Manual Gravimetric	Daily	Industrial Exposure	Industrial
PM_{10}	Manual Gravimetric	1 in 12 days	Precision and accuracy assessment	Industrial
PM_{10} Real time	Instrumental TEOM	Continuous	Air Pollution Index	Industrial

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	6 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	6 meters	Urban
WD Sigma	Elec. EPA method	Continuous	6 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	6 meters	Urban

Site:	Ogden #2 (O2)	**Longitude:**	111.9751	**Station Type:**	SLAMS
AQS#:	49-057-0002	**Latitude:**	41.207	**MSA:**	Ogden-Clearfield
Address:	228 East 32nd Street	**Elevation (M):**	1316		
City:	Ogden				
County:	Weber				

Site Objective:

This site is established to replace the original Ogden site to determine population exposure to pollution.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located in the City of Ogden in Weber County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Carbon Monoxide	Instrumental Gas Phase Correlation	Continuous	Population Exposure	SLAMS- Population Neighborhood
Ozone	Instrumental Ultra Violet	Continuous	Population Exposure	SLAMS- Population Neighborhood
Nitrogen Dioxide	Instrumental Chemiluminescence	Continuous	Population Exposure	SLAMS-High Neighborhood
$PM_{2.5}$	Manual Gravimetric	Daily	Population Exposure	SLAMS-High Neighborhood
$PM_{2.5}$ Real time	Instrumental TEOM FDMS	Continuous	Air Pollution Index	SLAMS-High Neighborhood
PM_{10}	Manual Gravimetric	Daily	Population Exposure	SLAMS-High Neighborhood
PM_{10} Real time	Instrumental TEOM	Continuous	Air Pollution Index	SLAMS-High Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Relative Humidity	Elec. Thin Film	Continuous	10 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site: Price #2 (P2) **Longitude:** -110.7702 **Station Type:** Slams

AQS#: 49-007-1003 **Latitude:** 39.5958 **MSA:** Not in an MSA

Address: 351 South Weasel Run Road **Elevation (M):** 1738

City: Price

County: Carbon

Site Objective:

This site is established in response to a three state ozone study. This site is funded by the Bureau of Land Management.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

This site is located in a farm field 3.6 Km east of Price.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Ozone	Instrumental Ultra Violet	Continuous	High ozone winter study	Regional
Nitrogen Dioxide	Instrumental Chemiluminescence	Continuous	High ozone winter study	Regional

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Regional
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Regional
WD Sigma	Elec. EPA method	Continuous	10 meters	Regional
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Regional

Site:	Roosevelt (RS)	**Longitude:**	110.009	**Station Type:**	SLAMS
AQS#:	49-013-0002	**Latitude:**	40.2943	**MSA:**	Not in MSA
Address:	1000 West 290 South	**Elevation (M):**	1588		
City:	Roosevelt				
County:	Duchesne				

Site Objective:

This site is established to determine maximum ozone and $PM_{2.5}$ concentrations in Duchesne County.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located in the city park North West section of Roosevelt

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Ozone	Instrumental Ultra Violet	Seasonal	High ozone winter study	Regional
Ozone	Chemiluminescence	Seasonal	High ozone winter study	Regional
Nitrogen Dioxide	Instrumental Chemiluminescence	Continuous	High ozone winter study	SLAMS- Population Neighborhood
$PM_{2.5}$ Real time	Instrumental Thermo 5030 Sharp	Continuous	Population Exposure	SLAMS- Population Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Sonic Method	Continuous	10 meters	Urban
Wind Direction	Sonic Method	Continuous	10 meters	Urban
Relative Humidity	Elec. Thin Film	Continuous	10 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	2 meters	Urban
Temperature Difference	Math channel	Continuous	10 – 2 meters	Urban

Site:	Rose Park (RP)	**Longitude:**	111.9309	**Station Type:**	SLAMS
AQS#:	49-035-3010	**Latitude:**	40.7955	**MSA:**	Salt Lake City
Address:	1354 West Goodwin Avenue	**Elevation (M):**	1295		
City:	Salt Lake City				
County:	Salt Lake				

Site Objective:

This site is established to better define $PM_{2.5}$ exposure in this area of Salt Lake City.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located in the community of Rose Park at the north end of Salt Lake City, Salt Lake County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
$PM_{2.5}$	Manual Gravimetric	Daily	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$	Manual Gravimetric co-located	1 in 12 days	Precision and accuracy assessment	SLAMS- Population Neighborhood

Site:	Saltair (SA)	**Longitude:**	112.0497	**Station Type:**	SPM
AQS#:	49-035-3005	**Latitude:**	40.8061	**MSA:**	Salt Lake City
Address:	6640 West 1680 North	**Elevation (M):**	1282		
City:	Salt Lake City				
County:	Salt Lake				

Site Objective:
This site is established to collect meteorological information for air quality modeling.

Does the site meet the objective:
Yes, all objectives are met.

Site Description:
The site is located west of the Salt Lake Airport in Salt Lake County.

Can data from this site be used to evaluate NAAQS ?: No

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Relative Humidity	Elec. Thin Film	Continuous	10 meters	Urban
Solar Radiation	Elec. LiCor	Continuous	2 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	Santa Clara (SC)	**Longitude:**	113.6363	**Station Type:**	SLAMS
AQS#:	49-053-0006	**Latitude:**	37.1291	**MSA:**	St.George
Address:	1215 North Lava Flow Drive	**Elevation (M):**	823		
City:	Santa Clara				
County:	Washington				

Site Objective:

This site is established to determine population exposure to ozone in Washington County. This site closed Aug. 2012. Site replaced by Hurricane based on ozone saturation study.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located on the grounds of the Snow Canyon Middle School in the city of Santa Clara in Washington County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Nitrogen Dioxide	Instrumental Chemiluminescence	Seasonal	Population Exposure	SLAMS- Population Neighborhood
Ozone	Instrumental Ultra Violet	Seasonal	Population Exposure	SLAMS- Population Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Relative Humidity	Elec. Thin Film	Continuous	10 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	Spanish Fork (SF)	**Longitude:**	111.6603	**Station Type:**	SLAMS
AQS#:	49-049-5010	**Latitude:**	40.1364	**MSA:**	Provo-Orem
Address:	312 West 2050 North	**Elevation (M):**	1380		
City:	Spanish Fork				
County:	Utah				

Site Objective:

This site is established to determine the boundary of the high ozone and $PM_{2.5}$ concentrations in Utah County.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located at the Spanish Fork Airport in the city of Spanish Fork, Utah County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Ozone	Instrumental Ultra Violet	Seasonal	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$	Manual Gravimetric	1 in 3 days	Population Exposure	SLAMS- Transport Regional

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	Syracuse (SY)	**Longitude:**	112.1185	**Station Type:**	SPM
AQS#:	49-011-6002	**Latitude:**	41.0886	**MSA:**	Ogden-Clearfield
Address:	4700 West 1700 South	**Elevation (M):**	1284		
City:	Syracuse				
County:	Davis				

Site Objective:

This site is established to collect meteorological information for air quality modeling.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located in the city of Syracuse near the causeway to Antelope Island State Park, Davis County.

Can data from this site be used to evaluate NAAQS ?: No

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Relative Humidity	Elec. Thin Film	Continuous	10 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site:	Tooele #3 (T3)	**Longitude:**	112.2997	**Station Type:**	SLAMS
AQS#:	49-045-0003	**Latitude:**	40.5393	**MSA:**	Salt Lake City
Address:	434 North 50 West	**Elevation (M):**	1511		
City:	Tooele				
County:	Tooele				

Site Objective:

This site is established to determine population exposure to air pollutants.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located in the city of Tooele, Tooele County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Ozone	Instrumental Ultra Violet	Seasonal	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$	Manual Gravimetric	1 in 3 days	Population Exposure	SLAMS- Population Neighborhood
$PM_{2.5}$ Real time	Instrumental TEOM FDMS	Continuous	Air Pollution Index	SLAMS- Population Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Relative Humidity	Elec. Thin Film	Continuous	3 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Site: Vernal (VL)
AQS#: 49-047-1003
Address: 220 South 1000 East
City: Vernal
County: Uintah

Longitude: 109.51
Latitude: 40.4523
Elevation (M): 1603

Station Type: Slams
MSA: Not in an MSA

Site Objective:
This site is established in response to an ozone study.

Does the site meet the objective:
Yes, all objectives are met.

Site Description:
This site is located in a farm field adjacent to 1000 East.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Ozone	Instrumental Ultra Violet	Continuous	High winter ozone study	Regional
Nitrogen Dioxide	Instrumental Chemiluminescence	Continuous	High winter ozone study	Regional
$PM_{2.5}$ Real Time	Thermo Sharp 5030	Continuous	AQI	SLAMS- Population Neighborhood

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Regional
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Regional
WD Sigma	Elec. EPA method	Continuous	10 meters	Regional
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Regional
Barometric pressure	Pressure transducer	Continuous	2 meters	Regional

Site:	Washington Boulevard #2 (W2)	**Longitude:**	111.9703	**Station Type:**	SLAMS
AQS#:	49-057-0006	**Latitude:**	41.2201	**MSA:**	Ogden-Clearfield
Address:	2540 South Washington Blvd	**Elevation (M):**	1316		
City:	Ogden				
County:	Weber				

Site Objective:

This site is established to monitor ground level, mid-block, mid-sidewalk exposure to carbon monoxide.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located downtown in the city of Ogden in Weber County.

Can data from this site be used to evaluate NAAQS ?: Yes

Gas/Particulate parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale
Carbon Monoxide	Instrumental Gas Phase Correlation	Continuous	Population Exposure	SLAMS-High Microscale

Site:	West Jordan (WJ)	**Longitude:**	112.001	**Station Type:**	SPM
AQS#:	49-035-3009	**Latitude:**	40.6112	**MSA:**	Salt Lake City
Address:	4540 West 8700 South	**Elevation (M):**	1414		
City:	West Jordan				
County:	Salt Lake				

Site Objective:

This site is established to collect meteorological information for air quality modeling.

Does the site meet the objective:

Yes, all objectives are met.

Site Description:

The site is located in the city of West Jordan, Salt Lake County.

Can data from this site be used to evaluate NAAQS ?: No

Meteorological parameters:

Parameter	Sampling & Analysis Method	Operating Schedule	Tower Height	Spatial Scale
Relative Humidity	Elec. Thin Film	Continuous	10 meters	Urban
Ambient Temperature	Elec. Resistance	Continuous	10 meters	Urban
Wind Direction	Elec. Resistance Level 1	Continuous	10 meters	Urban
WD Sigma	Elec. EPA method	Continuous	10 meters	Urban
Wind Speed	Elec. Chopped signal Level 1	Continuous	10 meters	Urban

Planned network changes SFY2014

Several changes are proposed for the Utah monitoring network in the upcoming 18 months. Many items are "housekeeping" while others are planned to improve the data available for health advisories, characterization of urban and rural areas, and modeling of high pollution periods. All the identified changes are subject to available monies, personnel and consultation with EPA. Items are not listed in any particular order and should be considered as a whole.

- Establish a new monitoring site in the southeast area of Salt Lake County. This site is intended to supply data for the increasing population in the southern end of the Salt Lake valley and provide information for the computer modeling to better refine pollution forecasting models. We are currently looking in the Draper area, but this location may be changed depending on the most current modeled needs and location availability. This site is expected to be a multi pollutant site with a wide range of parameters being monitored.
- Establish a new monitoring site in the southwestern section of Salt Lake County. This site is intended to supply data for the increasing population in the Herriman, Day Break, Transverse Mountain areas. This site will primarily monitor particulates and ozone.
- EPA NO_2 Near-Road monitoring program requires a monitor to be located near a high traffic road section. Current proposed location for a near-road monitoring site for Salt Lake County is on the west side of I-15 near 4900 South. This monitoring site has been identified, but will not be implemented until funding and resources are available to establish and operate the site. Other monitoring objectives have a higher priority for scarce resources.
- Establish a new monitoring site in Erda, northern Tooele County. This site would replace the Beach (B4) monitoring station as well as the Tooele (T3) monitoring station. Recent ozone studies indicate the Erda site is higher than both the Beach site and the Tooele site for ozone.
- Our previous years of monitoring SO_2 and new regulations show a need to adjust our network of SO_2 monitors. To that end, we propose to shut down SO_2 monitors in the following locations; North Salt Lake (N2), Beach (B4), Bountiful (BV) and Magna (MG). Review of our data show that 75% of the data collected are below the detection limit of the instruments and the historical reasons used to establish these monitoring locations are no longer valid. We will continue to monitor for SO_2 with a trace level instrument at the Hawthorne (HW) station as part of the NCORE monitoring effort.
- Hexavalent chromium has been discontinued as part of the National Air Toxics program at the Bountiful (BV) site. This change is recommended by the NATS due to low monitored concentrations. The DAQ concurs with the recommendation and will stop monitoring Cr^{+6} on June 30, 2013.
- The Price (P2) and Fruitland (FL) sites were established as part of a three- state study to monitor for a period of three years. The three years of monitoring for these sites will be finished at the end of 2013. Unless an additional need and funding is identified, these sites will be shut down on Dec. 31, 2013.
- Monitoring shelters at Logan (L4), North Salt Lake (N2), and Rose Park (RP) need to be upgraded as resources permit. These three shelters are old and need major repairs to continue to meet

monitoring requirements. We will look at each site to ensure siting criteria continues to be met before replacing shelters. In the case of the Logan monitor we are looking for a new site for this monitor. Siting of the current location is not optimal and if a better location can be found the station will be moved as part of the upgrade. The other monitoring sites will also be evaluated against siting criteria as well.

- To meet EPA monitoring requirements, we will commence $PM_{2.5}$ and PM_{10} monitoring at Hurricane (HC) starting Jan. 2014. We need to establish a 3-year baseline record of particulate levels in the St. George/Washington County MSA.
- The Spanish Fork (SF) station will need to be moved due to airport construction. Once the airport determines the extent of their renovations, we will determine if it is possible to keep the station at the airport or if a new location will need to be found.
- Our own network review has determined that the North Provo (NP) and Lindon (LN) stations are duplicative and there is little value to keeping both stations. We have evaluated each parameter and will be closing the North Provo station and moving any needed monitoring to the Lindon station. That will leave two stations in Utah County which meets all federal monitoring requirements and the needs of DAQ.
- Review of the meteorological sites in our network indicates that the West Jordan (WJ) site provides data of little value, based on other data collected. We will shut this station down.
- All stations will be reviewed this year to ensure that they continue to meet required siting criteria. Any sites that do not meet applicable criteria will be evaluated for future actions.
- The Tooele (T3) station will be shut down and all required parameters moved to Erda. Currently the Tooele site does not monitor high values for any of its parameters. Ozone saturation studies indicated Erda would be a better site for monitoring ozone allowing better notification of the community during high pollution episodes.
- The Harrisville (HV) station currently samples for $PM_{2.5}$. Sampled concentrations are lower than at other sites within the same CBSA, so we will discontinue monitoring for $PM_{2.5}$ at this location.
- The Washington Blvd. (W2) CO monitor is no longer relevant. It was originally installed to evaluate urban street canyons decades ago, but that is no longer an issue, and monitoring data there has been near zero; therefore the continuation of monitoring at this location is unnecessary. Monitoring for CO will continue at the Ogden (O2) site for Weber county.