West Mojave Plan Air Quality Evaluation Report

This report was prepared by the Mojave Desert Air Quality Management District Planning, Rulemaking and Grants staff on behalf of the West Mojave Planning Area air districts in April, 2013. Contact Alan De Salvio, Supervising Air Quality Engineer at 760-245-1661 x6726 or adesalvio@mdaqmd.ca.gov.

Introduction

The West Mojave (WEMO) Planning Area includes all or portions of five air quality districts (Mojave Desert Air Quality Management District (MDAQMD), Antelope Valley Air Quality Management District (AVAQMD), East Kern Air Pollution Control District (EKAPCD), the Great Basin Unified Air Pollution Control District (GBUAPCD), and the South Coast Air Quality Management District (SCAQMD)).

Air districts have statutory responsibility, in conjunction with the California Air Resources Board (CARB), to monitor air quality data (California Health and Safety Code §39607), with the intent of monitoring the public health, safety and welfare, including, but not limited to, health, illness, irritation to the senses, aesthetic value, interference with visibility, and effects on the economy (H&SC §39606(a)(2)). The WEMO Planning Area air districts (and CARB) operate an extensive ambient air monitoring network to meet this statutory requirement.

This report will summarize the nature of emissions within the WEMO Planning Area, how those emissions are monitored, summarize existing monitoring data, and discuss the existing monitoring network's ability to monitor off-highway vehicles and Open Areas.

WEMO Planning Area Emissions

The WEMO Planning Area includes the full gamut of emissions generated by mankind's activity, with the notable exception of emissions from waterborne activity, as the WEMO Planning Area has no coastal and sparse river and lakefront area. Emissions within the WEMO Planning Area are currently tabulated by CARB and air districts for State and Federal air quality planning purposes. Existing emission inventory efforts meet all State and Federal statutory and guidance inventory requirements. Specific emission inventory elements are presented below:

Substance	Nature	Basis for Inventory
Volatile Organic	Ozone and fine particulate	No direct ambient standard,
Compounds (VOC)	precursor	indirect ozone standard,
		regional pollutant
Oxides of Nitrogen (NOx)	Ozone and fine particulate	Ambient standard, indirect
	precursor, includes air	ozone standard, regional
	pollutant Nitrogen Dioxide	pollutant
	(NO2)	
Carbon Monoxide (CO)	Air pollutant	Ambient standard, local and
		regional pollutant
Respirable Particulate	Air pollutant, includes	Ambient standard, local and
Matter (PM10)	PM2.5, interferes with	regional pollutant
	visibility	
Fine Respirable Particulate	Air pollutant, interferes	Ambient standard, regional

Matter (PM2.5)	with visibility	pollutant
Oxides of Sulfur (SOx)	Air pollutant, fine	Ambient standard, local and
	particulate precursor,	regional pollutant
	includes air pollutant Sulfur	
	Dioxide (SO2)	
Hazardous and Toxic	Unhealthy	No ambient standard,
Compounds (HAPs and		localized health effects,
TACs)		facility inventory only

Existing emission inventory efforts cover all sources within the WEMO Planning Area. Emissions are typically grouped into three categories. For complete inventory details please refer to Appendix A of this report.

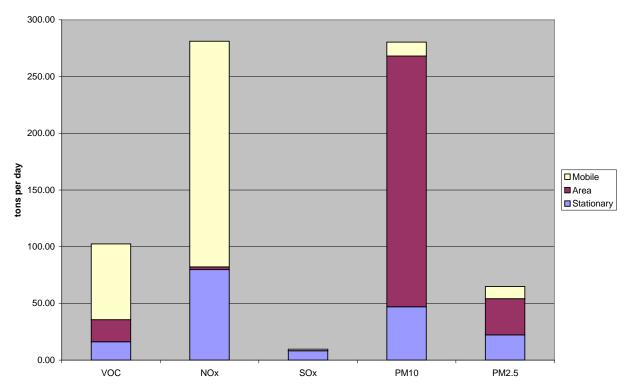
Inventory Category	Contributors in WEMO Planning Area
Stationary Sources	Industrial activity (mining, manufacturing, electricity
	generation, natural gas transmission) and military
	bases
Mobile Sources	On-road vehicles, off-road vehicles, aircraft and
	trains
Area Sources	Solvent use (fuel, paint, chemical), small combustion
	(fires, heating, cooking), small widespread sources
	(consumer products)

The WEMO Planning Area emissions inventory is presented below, in tons of emissions per day:

Туре	Category	VOC	NOx	SOx	PM10	PM2.5
Stationary	Fuel Combustion	0.90	24.02	2.31	5.20	4.02
Stationary	Waste Disposal	0.27	0.07	0.12	0.30	0.07
Stationary	Cleaning and Surface Coatings	6.62	0.00	0.00	0.40	0.38
	Petroleum Production and					
Stationary	Marketing	5.99	0.02	0.00	0.00	0.00
Stationary	Industrial Processes	2.42	55.69	5.83	41.15	17.83
Area	Solvent Evaporation	13.67	0.00	0.00	0.00	0.00
Area	Miscellaneous Processes	5.78	2.43	0.13	221.03	31.84
Mobile	On-Road Motor Vehicles	28.45	135.88	0.22	6.27	5.16
Mobile	Other Mobile Sources	38.31	62.99	0.99	6.00	5.59
	Totals:	102.41	281.10	9.60	280.35	64.89

The relative contributions of sources within the WEMO Planning Area are presented below. Note that mobile sources dominate ozone precursor emissions, SOx emissions are relatively minor, and area sources dominate particulate emissions.

WEMO Category Contributions



Off-Highway Vehicle Exhaust Contribution

Off-Highway Vehicles (OHVs) are directly inventoried as mobile sources, as the subcategory off-highway recreational vehicles. OHV exhaust is a negligible contributor to the WEMO Planning Area inventory except for VOC emissions. OHV VOC emissions are relatively high (in relation to other OHV exhaust emissions) because OHV engines are typically carbureted, rich burn engines without catalytic controls and hence have greater unburned fuel in their exhaust. Nevertheless VOC emissions are not a local pollutant but are a precursor to ozone formation – ozone is a regional pollutant. OHV exhaust is a negligible contributor to local emissions, and is a significant contributor only to VOC (a regional pollutant precursor).

OHV Open Area Contribution

OHV Open Areas are indirectly inventoried as area sources, as an element of the unpaved road dust and the fugitive windblown dust subcategories. OHV Open Areas are not significant contributors to either subcategory due to scale – the WEMO Planning Area includes thousands of miles of maintained and unmaintained unpaved roads and tracks, and tens of millions of acres of disturbed surface, and the contribution of the relatively small OHV Open Areas is equally relatively small. Regional experience with windblown dust has shown that heavily traveled unpaved roads and similar frequently disturbed (on at least a daily basis) surfaces are the primary contributor to regional dust problems. Confining OHV activity to existing defined OHV Open Areas has been an element of regional dust control planning for more than twenty years, and is an element of Federal PM10 planning. OHV Open Areas are not a significant contributor to regional dust (PM10) emissions.

WEMO Planning Area Ambient Monitoring

Forty-six ambient air monitoring sites are located in or adjacent to the WEMO Planning Area, operated by various air quality agencies or on their behalf. This existing network of sites monitors ambient pollutants and meteorological data to meet State and Federal ambient monitoring requirements, and represents a mix of neighborhood and regional scale monitors:

Name	OP Agency	Latitude	Longitude	Elev (m)
Coso Gate	Great Basin Unified APCD	36.0688	-117.755	1329
Coso Junction-10 miles E	Great Basin Unified APCD	36.0338	-117.7988	NA
Coso Junction-Highway 395 Rest Area	Great Basin Unified APCD	36.0497	-117.9438	1027
Death Valley Natl Monument	National Park Service	36.5089	-116.8478	125
Dirty Sox	Great Basin Unified APCD	36.3261	-117.955	1060
Flat Rock-Highway 190	Great Basin Unified APCD	36.4219	-117.8366	1133
Keeler-Cerro Gordo Road	Great Basin Unified APCD	36.4877	-117.8711	1097
Olancha-E Fall Road	Great Basin Unified APCD	36.2755	-117.9897	1097
Olancha-Walker Creek Road	Great Basin Unified APCD	36.2663	-117.9916	1100
Boron-26965 Cote Street	ARB Contractor	35.0036	-117.6511	750
Canebrake	California ARB	35.72778	-118.139312	914
China Lake-Powerline Road	Kern County APCD	35.7102	-117.6397	697
Inyokern-Airport	Great Basin Unified APCD	35.6513	-117.8241	759
Mojave-923 Poole Street	CARB/Kern County APCD	35.0503	-118.1478	853
Ridgecrest-100 West California Avenue	Kern County APCD	35.6211	-117.6731	701
Ridgecrest-Las Flores Avenue	Kern County APCD	35.6299	-117.6692	723
Tehachapi-Jameson Road	California ARB	35.1333	-118.425	1167
Lancaster-43301 Division Street	Antelope Valley APCD	34.6713	-118.1305	725
Lancaster-W Pondera Street	Mojave Desert AQMD	34.6899	-118.1327	725
Palmdale	ARB Contractor	34.5569	-118.1116	841
Blythe-445 West Murphy Street	Mojave Desert AQMD	33.6119	-114.6	83
Joshua Tree National Park-Pinto Wells	National Park Service	33.9397	-115.4108	326
Baldy Mesa	ARB Contractor	34.375	-117.4477	1295
Barstow	Mojave Desert AQMD	34.8938	-117.0244	690
Flash Mountain	ARB Contractor	34.7375	-117.565	1013
Hesperia-Olive Street	Mojave Desert AQMD	34.4158	-117.2861	1006
Joshua Tree-National Monument	National Park Service	34.0694	-116.3888	1244
Lucerne Valley-Middle School	Mojave Desert AQMD	34.4103	-116.9067	1036
Ludlow	ARB Contractor	34.7247	-116.1577	543
Mojave National Preserve	National Park Service	35.1019	-115.7767	1212
Phelan-Beekley Road and Phelan Road	Mojave Desert AQMD	34.425	-117.5897	1250
Quartzite Mountain	ARB Contractor	34.6116	-117.2888	1366
Shadow Mountain	ARB Contractor	34.7375	-117.565	1256
Trona-Athol	Mojave Desert AQMD	35.7742	-117.3686	498
Trona-Athol and Telegraph	Mojave Desert AQMD	35.7744	-117.3722	545
Twentynine Palms-Adobe Road #2	Mojave Desert AQMD	34.1419	-116.0553	607
Victorville-14306 Park Avenue	Mojave Desert AQMD	34.5122	-117.325	913
Victorville-Amargosa Road	Mojave Desert AQMD	34.5041	-117.3297	876
Joshua Tree National Park	National Park Service	33.7411	-115.8206	984
Banning Airport	South Coast AQMD	33.9208	-116.8583	473
Banning-Allesandro	South Coast AQMD	33.9211	-116.8583	722
Riverside-Rubidoux	South Coast AQMD	34.0005	-117.4152	250
Big Bear City-501 W. Valley Blvd	South Coast AQMD	34.2644	-116.8644	2056

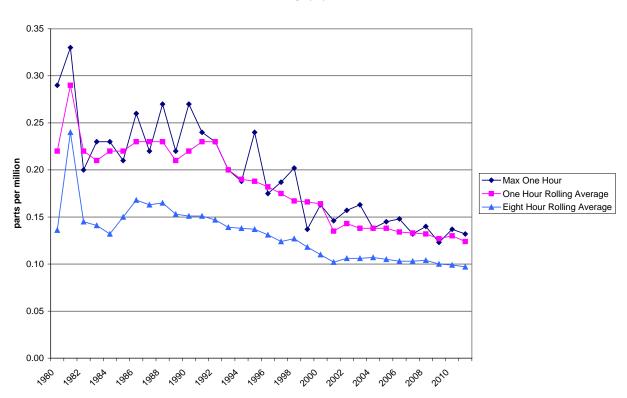
Name	OP Agency	Latitude	Longitude	Elev (m)
Crestline	South Coast AQMD	34.2413	-117.2755	1384
Mount Baldy-Mount Baldy Road	California ARB	34.2391	-117.6208	1335
San Gorgonio Wilderness	National Park Service	34.19390	-116.9132	1726

Neighborhood scale monitors are located near population centers, and regional scale monitors are located in rural areas. Neighborhood scale monitors are used to characterize and monitor ambient air affecting nearby population, while tracking attainment of ambient air pollutant standards (or tracking progress towards attainment of those standards). Regional scale monitors are used to evaluate large geographic regions, and track overall background levels of ambient air pollutants.

WEMO Planning Area Ambient Ozone Data

Ambient ozone values in the WEMO Planning Area are trending down as a result of Federal, State and local ozone precursor emission controls. These trends represent significant improvement in population exposure to ozone (at neighborhood scale monitors) and regional improvement in ozone levels (at regional scale monitors), despite significant increases in WEMO Planning Area population and associated emissions. Ambient ozone data for the WEMO Planning Area monitors is presented below.



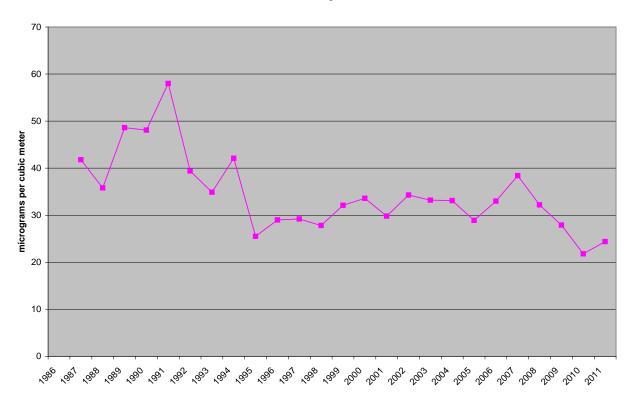


WEMO Planning Area Ambient PM₁₀ Data

Ambient PM10 values in the WEMO Planning Area have been reduced as a direct result of Federal PM10 planning efforts, particularly in Owens Lake and Searles Valley areas.

Construction and demolition PM10 emissions have been reduced throughout the planning area through increased local regulation. The WEMO Planning Area population (and population-related emissions and surface disturbances) has increased over this time period. The WEMO Planning Area is predominately a windy, arid, low vegetation area, with relatively high dust levels due to exposed soils and high winds lifting those soils into the area. As a result the background levels of PM10 tend to be elevated, with common "exceptional" high wind dust events. The annual average ambient PM10 data for the WEMO Planning Area is presented below.

Annual Average PM10



Ambient Monitoring Coverage of OHVs and OHV Open Areas

As discussed above, OHVs and OHV Open Areas are minor contributors to regional pollution, but are monitored by regional scale monitors by definition. The contribution of OHV use and OHV Open Area emissions near population centers are also monitored by the neighborhood scale monitors covering those population centers. The existing ambient air monitoring network in the WEMO Planning Area meets all Federal, State and local ambient air monitoring requirements, including monitoring ambient impacts from OHVs and OHV Open Areas.

Appendix A – WEMO Planning Area Emissions Inventory (Detail)

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Type	Category	Subcategory	VOC	NOx S	SOx	PM10	PM2.5
Stat	FUEL COMBUSTION	ELECTRIC UTILITIES	0.05	2.09 (0.73	0.15	0.11
Stat	FUEL COMBUSTION	COGENERATION	0.03	4.20 (0.46	0.17	0.15
Stat	FUEL COMBUSTION	MANUFACTURING AND INDUSTRIAL	0.19	4.36		0.42	0.44
Stat	FUEL COMBUSTION	FOOD AND AGRICULTURAL PROCESSING	0.06	0.62		0.03	0.02
Stat	FUEL COMBUSTION	SERVICE AND COMMERCIAL	0.32	9.26 (0.37	0.37
	FUEL COMBUSTION		0.32			4.06	2.93
Stat		OTHER (FUEL COMBUSTION)		3.49 (
Stat	WASTE DISPOSAL	SEWAGE TREATMENT	0.01	0.00		0.00	0.00
Stat	WASTE DISPOSAL	LANDFILLS	0.20	0.01 (0.26	0.04
Stat	WASTE DISPOSAL	INCINERATORS	0.01	0.06 (0.06	0.01	0.01
Stat	WASTE DISPOSAL	SOIL REMEDIATION	0.00	0.00	0.00	0.00	0.00
Stat	WASTE DISPOSAL	OTHER (WASTE DISPOSAL)	0.05	0.00	0.00	0.03	0.02
Stat	CLEANING AND SURFACE COATINGS	LAUNDERING	0.00	0.00		0.00	0.00
Stat	CLEANING AND SURFACE COATINGS	DEGREASING	4.13	0.00		0.00	0.00
Stat	CLEANING AND SURFACE COATINGS	COATINGS AND RELATED PROCESS SOLVENTS	2.26	0.00 (0.21	0.20
Stat	CLEANING AND SURFACE COATINGS	PRINTING	0.05	0.00		0.19	0.18
Stat	CLEANING AND SURFACE COATINGS	ADHESIVES AND SEALANTS	0.16	0.00 (0.00	0.00
Stat	CLEANING AND SURFACE COATINGS	OTHER (CLEANING AND SURFACE COATINGS)	0.02	0.00	0.00	0.00	0.00
Stat	PETROLEUM PRODUCTION AND MARKETING	OIL AND GAS PRODUCTION	0.08	0.00	0.00	0.00	0.00
Stat	PETROLEUM PRODUCTION AND MARKETING	PETROLEUM REFINING	0.01	0.00	0.00	0.00	0.00
Stat	PETROLEUM PRODUCTION AND MARKETING	PETROLEUM MARKETING	5.89	0.02 (0.00	0.00	0.00
Stat	PETROLEUM PRODUCTION AND MARKETING	OTHER (PETROLEUM PRODUCTION AND MARKETING)	0.01	0.00		0.00	0.00
Stat		CHEMICAL	0.53	0.98 (0.34	0.26
	INDUSTRIAL PROCESSES						
Stat	INDUSTRIAL PROCESSES	FOOD AND AGRICULTURE	0.03	0.00		0.02	0.01
Stat	INDUSTRIAL PROCESSES	MINERAL PROCESSES	1.37	49.04	5.51	28.85	10.74
Stat	INDUSTRIAL PROCESSES	METAL PROCESSES	0.02	0.49 (0.00	0.01	0.01
Stat	INDUSTRIAL PROCESSES	WOOD AND PAPER	0.00	0.00	0.00	0.65	0.39
Stat	INDUSTRIAL PROCESSES	GLASS AND RELATED PRODUCTS	0.00	1.63 (0.08	0.25	0.24
Stat	INDUSTRIAL PROCESSES	ELECTRONICS	0.00	0.00		0.00	0.00
Stat	INDUSTRIAL PROCESSES	OTHER (INDUSTRIAL PROCESSES)	0.47	3.55 (11.03	6.18
Area	SOLVENT EVAPORATION	CONSUMER PRODUCTS	6.86	0.00 (0.00	0.00
Area	SOLVENT EVAPORATION	ARCHITECTURAL COATINGS AND RELATED PROCESS SOLVENTS	2.73	0.00		0.00	0.00
Area	SOLVENT EVAPORATION	PESTICIDES/FERTILIZERS	1.71	0.00		0.00	0.00
Area	SOLVENT EVAPORATION	ASPHALT PAVING / ROOFING	2.37	0.00	0.00	0.00	0.00
Area	MISCELLANEOUS PROCESSES	RESIDENTIAL FUEL COMBUSTION	2.14	2.08 (0.09	4.43	4.27
Area	MISCELLANEOUS PROCESSES	FARMING OPERATIONS	1.88	0.00	0.00	6.65	1.03
Area	MISCELLANEOUS PROCESSES	CONSTRUCTION AND DEMOLITION	0.00	0.00		23.27	2.32
Area	MISCELLANEOUS PROCESSES	PAVED ROAD DUST	0.00	0.00		17.69	2.66
Area	MISCELLANEOUS PROCESSES	UNPAVED ROAD DUST	0.00			113.02	11.66
Area	MISCELLANEOUS PROCESSES	FUGITIVE WINDBLOWN DUST	0.00	0.00		52.09	7.10
Area	MISCELLANEOUS PROCESSES	FIRES	0.02	0.01 (0.04	0.04
Area	MISCELLANEOUS PROCESSES	MANAGED BURNING AND DISPOSAL	0.88	0.34 (1.28	1.21
Area	MISCELLANEOUS PROCESSES	COOKING	0.86	0.00	0.00	2.56	1.55
Area	MISCELLANEOUS PROCESSES	OTHER (MISCELLANEOUS PROCESSES)	0.00	0.00	0.00	0.00	0.00
Mobile	ON-ROAD MOTOR VEHICLES	LIGHT DUTY PASSENGER (LDA)	6.65	6.54 (0.05	0.50	0.30
Mobile	ON-ROAD MOTOR VEHICLES	LIGHT DUTY TRUCKS - 1 (LDT1)	3.90	4.41 (0.02	0.19	0.12
	ON-ROAD MOTOR VEHICLES	LIGHT DUTY TRUCKS - 2 (LDT2)	3.50	5.76		0.36	0.24
	ON-ROAD MOTOR VEHICLES	MEDIUM DUTY TRUCKS (MDV)	1.66	3.09		0.17	0.11
						0.17	0.11
	ON-ROAD MOTOR VEHICLES	LIGHT HEAVY DUTY GAS TRUCKS - 1 (LHDV1)	0.64	1.05 (
	ON-ROAD MOTOR VEHICLES	LIGHT HEAVY DUTY GAS TRUCKS - 2 (LHDV2)	0.28	0.33 (0.00	0.00
	ON-ROAD MOTOR VEHICLES	MEDIUM HEAVY DUTY GAS TRUCKS (MHDV)	0.42	0.35 (0.00	0.00
	ON-ROAD MOTOR VEHICLES	HEAVY HEAVY DUTY GAS TRUCKS (HHDV)	0.32	0.80		0.00	0.00
Mobile	ON-ROAD MOTOR VEHICLES	LIGHT HEAVY DUTY DIESEL TRUCKS - 1 (LHDV1)	0.03	1.25 (0.00	0.01	0.01
Mobile	ON-ROAD MOTOR VEHICLES	LIGHT HEAVY DUTY DIESEL TRUCKS - 2 (LHDV2)	0.03	1.09 (0.00	0.01	0.01
Mobile	ON-ROAD MOTOR VEHICLES	MEDIUM HEAVY DUTY DIESEL TRUCKS (MHDV)	0.07	3.39 (0.00	0.08	0.07
	ON-ROAD MOTOR VEHICLES	HEAVY HEAVY DUTY DIESEL TRUCKS (HHDV)		104.92 (4.83	4.23
	ON-ROAD MOTOR VEHICLES	MOTORCYCLES (MCY)	3.15	0.90		0.04	0.02
		HEAVY DUTY DIESEL URBAN BUSES (UB)				0.00	0.02
	ON-ROAD MOTOR VEHICLES		0.01	0.14 (
	ON-ROAD MOTOR VEHICLES	HEAVY DUTY GAS URBAN BUSES (UB)	0.02	0.05 (0.00	0.00
	ON-ROAD MOTOR VEHICLES	SCHOOL BUSES (SB)	0.05	0.88 (0.04	0.04
	ON-ROAD MOTOR VEHICLES	OTHER BUSES (OB)	0.06	0.33 (0.01	0.00
Mobile	ON-ROAD MOTOR VEHICLES	MOTOR HOMES (MH)	0.12	0.60 (0.01	0.00
Mobile	OTHER MOBILE SOURCES	AIRCRAFT	4.97	3.86 (0.43	3.07	3.04
	OTHER MOBILE SOURCES	TRAINS	3.56			1.19	1.09
	OTHER MOBILE SOURCES	RECREATIONAL BOATS	5.89	1.49 (0.48	0.36
	OTHER MOBILE SOURCES	OFF-ROAD RECREATIONAL VEHICLES	18.48	0.79		0.40	0.16
		OFF-ROAD RECREATIONAL VEHICLES OFF-ROAD EQUIPMENT		20.15			
	OTHER MOBILE SOURCES					0.95	0.86
	OTHER MOBILE SOURCES	FARM EQUIPMENT	0.30	1.48 (0.09	80.0
Mobile	OTHER MOBILE SOURCES	FUEL STORAGE AND HANDLING	0.62	0.00		0.00	0.00
		Totals (tons per day): 102.41	281.10	9.60	280.35	64.89

Appendix E	B – WEMO) Planning	Area.	Amb	ien	t M	oni	torin	g S	ites (Det	ail)					
County	Name	Ü	AIRS ID	AQD ID			NO2		so		OZON		PM10		TSP P)	PM2_5
Inyo County Inyo County	Coso Gate Coso Junction-10 mi	les E	060270020										S/SI	NS/RC			
Inyo County	Coso Junction-Highw	vay 395 Rest Area	060271001								C D # #	A NE (DC		NS/RC -/BL			
Inyo County Inyo County	Death Valley Natl Mo Dirty Sox	nument	060270101								SPIU	V NS/RC		NS/RC			
Inyo County	Flat Rock-Highway 1 Keeler-Cerro Gordo		060270024											NS/RC NS/RC			S/SQ NS/RC
Inyo County Inyo County	Olancha-E Fall Road		060271003											NS/RC			SISU NSIRC
Inyo County	Olancha-Walker Cre-		060270021								CDIII	V US/BL	S/SI	NS/RC			
Kern County Kern County	Boron-26965 Cote S Canebrake	neet	0602990017								3110	V USIBL	S/SI	/BL			
Kern County	China Lake Powerlin	e Road	060291001											US/RC NS/IM	S/AG	R5/BL	
Kern County Kern County	Inyokern-Airport Mojave-923 Poole St	reet	060290013				S/CI	. US/RC			S/UV	RS/HC		RS/HC			S/SQ NS/HC
Kern County Kern County	Ridgecrest Law Flore		060290015 060290012											NS/HC NS/IM			S/SI NS/HC S/SI -/RC
Kern County Kern County	Ridgecrest-Las Flore Tehachapi Jameson		060290012								SP/U	V/	38/31	MOVIM			
Los Angeles County Los Angeles County	Lancaster-43301 Div Lancaster-W Ponder		060379033 060379002			MS/		MS/ NS/RC				MS/ NS/RC	SISI	NS/ NS/RC			S/ NS/ S/SQ NS/RC
Los Angeles County	Palmdale	a succi	060379006		Jim	Nonc	. SICI	Nonc			SP/U	V RS/BL	3,31	None			Side Home
Riverside County Riverside County	Blythe-445 West Mur Joshua Tree Nationa		060659003								S/UV						
San Bernardino County	Baldy Mesa	II Paik-PailO Wess	060719006									V NS/BL					
San Bernardino County	Barstow Flash Mountain		060710001	3600155	SAR	NS/RC	SICI	NS/RC	S/F	L NS/RO		NS/RC V US/BL	SISI	NS/RC	S/XG	NS/RC	
San Bernardino County San Bernardino County	Hesperia-Olive Stree	t	060714001	3600201	S/IR	NS/RC	SICI	NS/RC	SIF	L NS/RC	S/UV	NS/RC	S/51	NS/RC	S/XG	NS/RC	
San Bernardino County	Joshua Tree-Nationa		060719002 060710013						18	L/BL	SP/U	V RS/RC	/51	-/BL NS/RC			
San Bernardino County San Bernardino County	Lucerne Valley-Middl Ludlow	E SCHOOL	060710013								SP/U	V RS/BL	3/31	Warke			
San Bernardino County	Mojave National Pre		060711001	200207	CAD	NEIDO	e ici	NS/RC	cit	L NS/RO	CRIV	NS/RC					
San Bernardino County San Bernardino County	Phelan-Beekley Road Quartzite Mountain	and Phelan Road	060710012 060719008	3600207	S/IR	NS/KC	SICI	. NS/RC	5/1	L NS/RC		V NS/BL					
San Bernardino County	Shadow Mountain		060719003				0101	MEIDO	CIF	i peipe		V US/BL	cici	NCIDO	2412	Nemo	
San Bernardino County San Bernardino County	Trona-Athol Trona-Athol and Tek	egraph	060710015	3600210				NS/RC NS/RC		L RS/RC		RS/RC RS/RC		NS/RC NS/RC	S/AG	NSIKC	
San Bernardino County	Twentynine Palms-A	dobe Road #2	060710017				S/CI	NS/RC	S/F	L NS/RC	: S/UV	RS/RC	SISI	NS/RC			
San Bernardino County San Bernardino County	Victorville-14306 Par Victorville-Armagosa		060710306			NS/RC	S/CI	NS/RC	S/F	L/ L NS/RC	S/UV	NS/RC	1S1	/ NS/RC			S/SQ NS/RC S/SQ NS/RC
Riverside County	Joshua Tree Nationa		060650008								/UV	/BL					
Riverside County Riverside County	Banning Airport Banning-Aflesandro		060650012			NS/RC	P,S/	CL NS/R		M NS/RO		NS/RC MS/RC		NS/RC NS/RC	S/XG	NS/RC	
Riverside County	Riverside-Rubidoux		060658001				SICI	US/RC		L NS/RC		US/HC		NS/HC		N5/RC	S/SQ NS/HC
San Bernardino County San Bernardino County	Big Bear City-501 W. Crestline	Valley Blvd	060718001	3600181	_/IR		/CL				S/UV	NS/HC	S/SI	NS/RC	S/XG	NS/RC	S/SQ NS/RC
San Bernardino County	Mount Baldy Mount 8		060710217		/IR		,,,,				/UV				5.7.0		
San Bernardino County	San Gorgonio Wilder	mess	060719010										/SI	-/BL			
Name		OP Agency	ARCD	Ac	tive				DPT		טג טי	/ Press			ngitude	E	levation Site
Coso Gate	s E	Great Basin Unified		Ac	tive •	WS 97-00 9				RH S 97-00	or u	/ Press	Latitus 36.06 36.03	88 -1	ongitude 17.755 1 7.7 988		1329 3252
Coso Gate Coso Junction-10 miles Coso Junction-Highway	y 395 Rest Area	Great Basin Unified Great Basin Unified Great Basin Unified	APCD APCD	Ac	tive •	97-00 9 97-00 9	97-00	97-00 97-00	•	97-00 97-00		/ Press	36.06 36.03 36.04	88 -1 38 -1 9 7 -1	17.755 17.7988 17. 94 38		1329 3252 NA 2366 1027 2248
Coso Gate Coso Junction-10 miles Coso Junction-Highway Death Valley Natl Mont	y 395 Rest Area	Great Basin Unified Great Basin Unified Great Basin Unified National Park Service	APCD APCD	Ac	tive •	97-00 9 97-00 9 93-09 9	9 7-00 9 7-00 9 3-0 9	97-00 97-00 93-09	•	97-00		/ Press	36.06 36.03 36.04 36.50	88 -1 38 -1 97 -1 89 -1	17.755 17.7988 17.9438 16.8478		1329 3252 NA 2366 1027 2248 125 3151
Coso Gate Coso Junction-10 miles Coso Junction-Highway	y 395 Rest Area ument	Great Basin Unified Great Basin Unified Great Basin Unified	APCD APCD e APCD	Ac	tive	97-00 9 97-00 9	97-00 97-00 93-09 99-08	97-00 97-00 93-09 07-08	•	97-00 97-00		/ Press	36.06 36.03 36.04	88 -1 38 -1 97 -1 89 -1 61 -1	17.755 17.7988 17. 94 38		1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Mont Dirty Sox Flat Rock-Highway 190 Keeler-Cerro Gordo Ro	y 395 Rest Area ument	Great Basin Unified Great Basin Unified Great Basin Unified National Park Servic Great Basin Unified Great Basin Unified Great Basin Unified	APCD APCD :e APCD APCD APCD	Ac	tive	97-00 9 97-00 9 93-09 9 99-08 9 01-08 0 97-09 9	97-00 97-00 93-09 99-08 91-08 97-09	97-00 97-00 93-09 07-08 07-08 97-09	!	97-00 97-00 93-09 93			36.06 36.04 36.50 36.32 36.42 36.42	88 -1 38 -1 97 -1 89 -1 61 -1 19 -1 77 -1	17.755 17.7988 17.9438 16.8478 17.955 17.8366 17.8711		1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497 1097 3154
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Mont Dirty Sox Flat Rock-Highway 190 Keeler-Cerro Gordo Ro Olancha-E Fall Road	y 395 Rest Area ument) aad	Great Basin Unified Great Basin Unified Autonal Park Servic Great Basin Unified Great Basin Unified Great Basin Unified Great Basin Unified Great Basin Unified	APCD APCD APCD APCD APCD APCD APCD	Ac	tive	97-00 9 97-00 9 93-09 9 99-08 9 01-08 0 97-09 9 95-97 9	97-00 97-00 93-09 99-08 91-08 97-09 95-97	97-00 97-00 93-09 07-08 07-08 97-09 95-97	9	97-00 97-00 93-09 93		9 7 -97	36.06 36.03 36.04 36.50 36.32 36.42 36.48 36.27	88 -1 38 -1 97 -1 89 -1 61 -1 19 -1 77 -1 55 -1	17.755 17.7988 17.9438 16.8478 17.955 17.8366		1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Mont Dirty Sox Flat Rock-Highway 190 Keeler-Cerro Gordo Ro	y 395 Rest Area ument) aed Road	Great Basin Unified Great Basin Unified Great Basin Unified National Park Servic Great Basin Unified Great Basin Unified Great Basin Unified Great Basin Unified ARB Contractor	APCD APCD APCD APCD APCD APCD APCD	Ac	tive	97-00 9 97-00 9 93-09 9 99-08 9 01-08 0 97-09 9	97-00 93-09 99-08 91-08 97-09 95-97	97-00 97-00 93-09 07-08 07-08 97-09 95-97 97-09	9	97-00 97-00 93-09 93		9 7 -97	36.06 36.03 36.04 36.50 36.32 36.42 36.48 36.27 36.26 35.00	88 -1 38 -1 97 -1 89 -1 61 -1 19 -1 77 -1 55 -1 63 -1	17.755 17.7988 17.9438 16.8478 17.955 17.8366 17.8711 17.9897 17.9916 17.6511		1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497 1097 3154 1097 3118 1100 3210 750 3218
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Mont Dirty Sox Flat Rock-Highway 190 Keeler-Cerro Gordo Ro Olancha E Fall Road Olancha Walker Creek Boron-26965 Cote Stre Canebrake	y 395 Rest Area ument o aad Road reet	Great Basin Unified Great Basin Unified Great Basin Unified National Park Servic Great Basin Unified Great Basin Unified	APCD APCD APCD APCD APCD APCD APCD	Ac	tive	97-00 9 97-00 9 93-09 9 99-08 9 01-08 0 97-09 9 95-97 9 97-09 9	97-00 93-09 99-08 91-08 97-09 95-97	97-00 97-00 93-09 07-08 07-08 97-09 95-97 97-09	9	97-00 97-00 93-09 93		9 7 -97	36.06: 36.03: 36.04: 36.50: 36.32: 36.42: 36.48: 36.26: 35.00: 35.72:	88 -1 38 -1 97 -1 89 -1 61 -1 19 -1 77 -1 65 -1 63 -1 778 -1	17.755 17.7988 17.9438 16.8478 17.955 17.8366 17.8711 17.9897 17.9916 17.6511 18.1393		1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497 1097 3154 1097 3118 1100 3210 750 3218 914 3741
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Mont Dirty Sox Flat Rock Highway 190 Keeler-Cerro Gordo Ro Olancha E Fall Road Olancha Walker Creek Boron-26965 Cote Stree	y 395 Rest Area ument o aad Road reet	Great Basin Unified Great Basin Unified Great Basin Unified National Park Servic Great Basin Unified Great Basin Unified Great Basin Unified Great Basin Unified ARB Contractor	APCD APCD APCD APCD APCD APCD APCD APCD	Ac	tive	97-00 9 97-00 9 93-09 9 99-08 9 01-08 0 97-09 9 95-97 9 97-09 9	97-00 93-09 99-08 91-08 97-09 95-97	97-00 97-00 93-09 07-08 07-08 97-09 95-97 97-09	9	97-00 97-00 93-09 93		9 7 -97	36.06 36.03 36.04 36.50 36.32 36.42 36.48 36.27 36.26 35.00	88 -1 38 -1 97 -1 89 -1 61 -1 19 -1 77 -1 55 -1 63 -1 36 -1 778 -1 50 -1	17.755 17.7988 17.9438 16.8478 17.955 17.8366 17.8711 17.9897 17.9916 17.6511		1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497 1097 3154 1097 3118 1100 3210 750 3218
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Mont Dirty Sox Flat Rock-Highway 190 Keeler-Cerro Gordo Ro Olancha E- Fall Road Olancha-Walker Creek Boron-26965 Cote Stre Canebrake China Lake-Powerline I Inyokern-Airport Mojawe-923 Poole Stre-	y 395 Rest Area ument) oad Road Road Road	Great Basin Unified Great Basin Unified National Park Servic Great Basin Unified National Park Servic Great Basin Unified Great Basin Unified Great Basin Unified ARB Contractor California ARB Kern County APCD Great Basin Unified California ARB Kern County APCD Great Basin Unified California ARB	APCD APCD APCD APCD APCD APCD APCD APCD		tive	97-00 9 97-00 9 93-09 9 99-08 9 01-08 0 97-09 9 95-97 9 95-95 9	97-00 97-00 93-09 99-08 91-08 97-09 95-97 97-09 95-95	97-00 97-00 93-09 07-08 07-08 97-09 95-97 97-09 95-95	9	97-00 97-00 93-09 93		97-97 97-09 99-09	36.06 36.03 36.04 36.50 36.32 36.42 36.48 36.27 36.26 35.00 35.72 35.71 35.65 35.05	88 -1 38 -1 97 -1 89 -1 61 -1 19 -1 77 -1 55 -1 63 -1 778 -1 92 -1 13 -1 93 -1	17.755 17.7988 17.9438 16.8478 17.955 17.8366 17.8711 17.9897 17.9916 17.6511 18.1393 17.6397 17.8241		1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497 1097 3118 1100 3210 750 3218 914 3741 697 2774 759 3123 853 3121
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Moni Dirty Sox Flat Rock Highway 190 Keeler-Cerro Gordo Ro Olancha E Fall Road Olancha-Walker Creek Boron-26965 Cote Stre Canebrake China Lake-Powerline I Inyokern-Airport Mojave-923 Poole Stre Rødgecrest-100 West C	y 395 Rest Area ument)))) Road Road Road et Road et alifornia Avenue	Great Basin Unified Great Basin Unified Great Basin Unified National Park Servic Great Basin Unified Great Basin Unified	APCD APCD APCD APCD APCD APCD APCD APCD		tilve	97-00 9 97-00 9 93-09 9 99-08 9 01-08 0 97-09 9 95-97 9 95-95 9	97-00 97-00 93-09 99-08 91-08 97-09 95-97 97-09 95-95	97-00 97-00 93-09 07-08 07-08 97-09 95-97 97-09 95-95	9	97-00 97-00 93-09 93		97-97 97-09 99-09	36.06 36.03 36.04 36.50 36.32 36.42 36.48 36.27 36.26 35.00 35.72 35.71 35.65	88 -1 38 -1 97 -1 89 -1 61 -1 19 -1 77 -1 55 -1 63 -1 778 -1 92 -1 13 -1 93 -1 11 -1	17.755 17.7988 17.9438 16.8478 17.955 17.8366 17.8711 17.9897 17.9916 17.6511 18.1393 17.6397 17.8241	12	1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497 1097 3154 1097 3118 1100 3210 750 3218 914 3741 697 2774 759 3123
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Moni Dirty Sox Flat Rock-Highway 190 Keeler-Cerro Gordo Ro Olancha E Fall Road Olancha-Walker Creek Boron-26965 Cote Stre Canebrake Chana Lake-Powerline I Inyokern-Airport Moyaw-923 Poole Stre Rödgecrest-100 West C Ridgecrest-Las Flores a Tehachapi-Jameson R	y 395 Rest Area ument Area Road Road Road et alifornia Avenue Avenue	Great Basin Unified Great Basin Unified Great Basin Unified National Park Servic Great Basin Unified Great Basin Unified Great Basin Unified Great Basin Unified Great Basin Unified ARB Contractor California ARB Kern County APCD Great Basin Unified California ARB Kern County APCD Great Basin Unified California ARB/Kern Kern County APCD Caffornia ARB	APCD APCD APCD APCD APCD APCD APCD APCD			97-00 9 97-00 9 93-09 9 99-08 9 01-08 0 97-09 9 95-97 9 95-95 9 95-95 9	97-00 97-00 93-09 99-08 91-08 97-09 95-97 97-09 95-95 95-95	97-00 97-00 93-09 97-08 97-09 95-97 97-09 95-95 95-09 98-09 98-09	9	97-00 97-00 93-09 93		97-97 97-09 99-09 08-09	36.06 36.03 36.04 36.50 36.32 36.42 36.26 35.00 35.72 35.75 35.65 35.65 35.62 35.62 35.62 35.63	88 -1 38 -1 97 -1 889 -1 61 -1 19 -1 77 -1 555 -1 633 -1 7778 -1 7778 -1 103 -1 113 -1 99 -1 333 -1	17.755 17.7988 17.9438 16.8478 17.955 17.8566 17.8711 17.9897 17.6511 18.1393 17.6397 17.6241 18.1478 17.6731	12	1329 3252 NA 3366 1027 2248 125 3151 1060 3260 1133 3497 1097 3154 1100 3210 750 3218 914 3741 697 2774 759 3123 853 3121 701 3492 73 3122 1167 3165
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Moni Dirty Sox Flat Rock Highway 190 Keeler-Cerro Gordo Ro Olancha E Fall Road Olancha-Walker Creek Boron-26965 Cote Stre Canebrake Clana Lake-Powerline Inyokern-Airport Mojave-923 Poole Stre Rödgecrest-100 West C	y 395 Rest Area ument) had Road eet alifornia Avenue Avenue ood on Street	Great Basin Unified Great Basin Unified Great Basin Unified National Park Servic Great Basin Unified Great Basin Unified Great Basin Unified Great Basin Unified Great Basin Unified ARB Contractor California ARB Kern County APCD Great Basin Unified California ARB Kern County APCD Kern County APCD Kern County APCD Kern County APCD Catifornia ARB	APCD APCD APCD APCD APCD APCD APCD APCD			97-00 9 97-00 9 93-09 9 99-08 9 01-08 0 97-09 9 95-97 9 95-95 9 95-09 0 95-95 9 01-09 0	97-00 97-00 93-09 99-08 91-08 97-09 95-97 97-09 95-95 95-95 95-09 98-09 95-09 95-09	97-00 97-00 97-00 97-09 97-09 95-97 97-09 95-95 95-09 98-09 95-95 01-09	9	97-00 97-00 93-09 93		97-97 97-09 99-09 08-09	36.06 36.03 36.04 36.50 36.42 36.42 36.26 35.00 35.72 35.71 35.65 35.05 35.62 35.62 35.62 35.62 35.62	88 -1 38 -1 97 -1 89 -1 61 -1 19 -1 77 -1 63 -1 777 -1 63 -1 7778 -1 7778 -1 778 -1 779 -1 779 -1 779 -1 770 -1 771 -	17.755 17.7988 17.9438 16.8478 17.955 17.855 17.8711 17.9916 17.6511 18.1393 17.6397 17.8241 18.1478 17.6731 17.6731 17.6731 17.6731	12	1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497 1097 3154 1097 3154 1100 3210 750 3218 914 3741 697 2774 759 3123 853 3121 701 3492 723 3122 1167 3165 725 3658
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Moni Dirty Sox Flat Rock Highway 190 Keeler-Cerro Gordo Ro Olancha E Fall Road Olancha Walker Creek Boron-26965 Cote Stre Canebrake China Lake-Powerline I Inyokern-Airport Mojawe-923 Poole Stre Rodgecrest-100 West C Ridgecrest-Las Flores , Tehachapi-Jameson R Lancaster-43301 Divisi Lancaster-W Pondera : Palmdale	y 395 Rest Area ument) had Road eet Road et alifornia Avenue Avenue on Street Street	Great Basin Unified Great Basin Unified Great Basin Unified National Park Servic Great Basin Unified Great Basin Unified Great Basin Unified Great Basin Unified Great Basin Unified ARB Contractor California ARB Kern County APCD Great Basin Unified California ARB Kern County APCD Kern County APCD Kern County APCD Mem County APCD Mojave Desert AQM ARB Contractor	APCD APCD APCD APCD APCD APCD APCD APCD			97-00 9 97-00 9 93-09 9 99-08 9 01-08 0 97-09 9 95-97 9 95-95 9 95-95 9 95-95 9 95-95 9 95-95 9	97-00 97-00 93-09 99-08 91-08 97-09 95-97 97-09 95-95 95-95 95-09 98-09 94-01 95-95	97-00 97-00 93-09 97-08 97-09 95-97 95-95 95-09 98-09 98-01	9	97-00 97-00 93-09 93		97-97 97-09 99-09 08-09	36.06 36.03 36.04 36.50 36.32 36.42 36.26 35.00 35.72 35.75 35.65 35.65 35.62 35.62 35.62 35.63	88 -1 38 -3 97 -1 89 -1 61 -1 119 -1 1777 -1 555 -1 63 -1 7778 -1 102 -1 113 -1 103 -1 11 -1 199 -1	17.755 17.7988 17.9438 16.8478 17.955 17.8566 17.8711 17.9897 17.6511 18.1393 17.6397 17.6241 18.1478 17.6731	12	1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497 1097 3154 1100 3210 750 3218 914 3741 697 2774 759 3123 853 3121 701 3492 723 3122 1167 3165 725 3658 725 3658 725 3658 725 3007 841 3219
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Mont Dirty Sox Flat Rock-Highway 190 Keeler-Cerro Gordo Ro Olancha E- Fall Road Olancha E- Fall Road Olancha E- Greek Boron-26965 Cote Stre Canebrake China Lake-Powerline Inyokern-Airport Mojave-923 Poole Stre Rödgecrest-100 West C Rödgecrest-1100 West C Rödgecrest-1-100 West C Rodgecrest-1-100 West C Rodgecrest-1-10	y 395 Rest Area ument) lead Road Road et et alflornia Avenue Avenue oad on Street Street	Great Basin Unified Great Basin Unified National Park Servic Great Basin Unified National Park Servic Great Basin Unified ARB Contractor California ARB Kern County APCD Great Basin Unified California ARB/Kern County APCD Kern County APCD Kern County APCD California ARB Antelope Valley APC Mojave Desert AQM ARB Contractor Mogave Desert AQM Magac Contractor Mogave Desert AQM Magac Contractor Mogave Desert AQM Magac	APCD APCD APCD APCD APCD APCD APCD APCD			97-00 \$ 97-00 \$ 93-09 \$ 99-08 \$ 99-08 \$ 97-09 \$ 95-97 \$ 95-95 \$ 95-95 \$ 08-09 \$ 01-09 \$ 95-95 \$ 01-09 \$ 95-95 \$ 03-09	97-00 97-00 93-09 99-08 91-08 97-09 95-97 97-09 95-95 95-95 95-95 95-95 95-95 95-95 95-95 95-95 95-95	97-00 97-00 93-09 97-08 97-08 97-09 95-97 97-09 95-95 95-09 08-09 95-95 01-09 98-01 03-09	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	97-00 97-00 93-09 93-99 95-97 97-09	-09	97-97 97-09 99-09 08-09	36.06; 36.03; 36.04; 36.32; 36.42; 36.26; 35.20; 35.72; 35.65; 35.62; 35.62; 35.62; 34.67; 34.67; 34.65; 33.61;	88 -1 38 -1 97 -1 89 -1 11 -1 11 -1 11 11 -1 11 11 11 11 11	17.755 17.7988 17.7988 16.8478 17.955 17.8366 17.8711 17.9916 17.9516 17.6511 18.1393 17.6397 17.8241 18.1478 17.6692 18.425 18.1305 18.1305 18.1316	12	1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497 1097 3154 1097 3154 1097 3178 1100 3210 750 3218 914 3741 697 2774 697 2774 759 3123 853 3121 701 3492 723 3492 723 3492 725 3658 725 3658 726 3658 727 3658 728 3678 728 3678 729 3678 729 3678 720 3678 721 3678 722 3678 723 3678 724 3678 725 3678 726 3678 727 3678 728 3678 728 3678 729 3678
Coso Gate Coso Junction-10 miles Coso Junction-Highwa Death Valley Natl Mont Dirty Sox Flat Rock-Highway 190 Keeler-Cerro Gordo Ro Olancha E- Fall Road Olancha-Walker Creek Boron-26965 Cote Stre Canebrake China Lake-Powerline I hnyokern-Airport Mojawe-923 Poole Stre Ridgecrest-Las Flores Tehachapi-Jameson R Lancaster-43301 Divisi Lancaster-W Pondera: Pelmdale Bythe-445 West Murph Joshua Tree Natonal H	y 395 Rest Area ument) lead Road Road et et alflornia Avenue Avenue oad on Street Street	Great Basin Unified Great Basin Unified National Park Servic Great Basin Unified National Park Servic Great Basin Unified ARB Contractor California ARB Contractor California ARB Kern County APCD Great Basin Unified California ARBKern County APCD California ARBKern County APCD California ARB Antelope Valley APC Mojave Desert AQM ARB Contractor MOJAVE DESERVED ARB CONTRACTOR DESERVED ARB CONTRACTOR MOJAVE DESERVED ARB CONTRACTOR DESERVED ARB CONTRACTOR DESERVED ARB CONTRACTOR DESERVED AR	APCD APCD APCD APCD APCD APCD APCD APCD			97-00 9 97-00 9 93-09 9 99-08 9 01-08 0 97-09 9 95-97 9 95-95 9 95-95 9 95-95 9 95-95 9 95-95 9	97-00 97-00 93-09 99-08 91-08 97-09 95-97 97-09 95-95 95-95 91-09 94-01 94-01 93-95 93	97-00 97-00 93-09 97-08 97-09 95-97 95-95 95-09 98-09 98-01	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	97-00 97-00 93-09 93	-09	97-97 97-09 99-09 08-09	36.06 36.03 36.04 36.32 36.42 36.48 36.27 35.26 35.05 35.05 35.65 35.62 35.62 35.62 35.63 34.67 34.68 34.55 33.93	88 -1 38 -1 97 -1 889 -1 661 -1 119 -1 777 -1 555 -1 663 -1 778 -1 702 -1 111 -1 999 -1 113 -1 999 -1 1999 -1	17.755 17.7988 17.7988 16.8478 17.955 17.8366 17.8711 17.9897 17.9916 17.6511 18.1393 17.6397 17.6692 18.425 18.1305 18.1327 18.1327	12	1329 3252 NA 2366 1027 2248 125 3151 1060 3260 1133 3497 1097 3154 1100 3210 750 3218 914 3741 697 2774 759 3123 3697 3121 701 3492 723 3122 1167 3165 725 3057 841 3219 841 3219 843 3673 326 3732
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