

APPENDIX A
EXCEPTIONAL EVENT INITIAL NOTIFICATION

EE Initial Notification Summary Information

Submitting Agency: Clark County Department of Environment and Sustainability

Agency Contact: Mike Sword, Planning Manager

Date Submitted: November 30, 2020

Applicable NAAQS: 2015 8-hour Ozone

Affected Regulatory Decision¹: Attainment status

Area Name/Designation Status: Las Vegas Valley Nonattainment Area

Design Value Period: 2018-2020

A) Information specific to each flagged site day that may be submitted to EPA in support of the affected regulatory decision listed above

Date of Event	Type of Event	AQS Flag	Site AQS ID	Site Name	Exceedance Concentration (ppb)	Notes (e.g. event name, links to other events)
06/19/2018	Wildfire	RT	32-003-0298	Green Valley	77	Transport of smoke from the Planada Fire (CA) and Upper Colony Fire (NV) to Clark County. Green Valley and Jerome Mack recorded the fourth highest 8-hour average O3 in 2018.
		RT	32-003-0043	Paul Meyer	72	
		RT	32-003-0071	Walter Johnson	72	
06/20/2018	Wildfire	RT	32-003-0075	Joe Neal	72	This exceedance correlated with the June 19 event and was impacted by the Planada Fire (CA) and Upper Colony Fire (NV).
		RT	32-003-0043	Paul Meyer	71	
		RT	32-003-0071	Walter Johnson	74	
06/23/2018	Wildfire	RT	32-003-0298	Green Valley	75	Transport of smoke from the Jack Knife Fire (OR), Boxcar Fire (OR), Graham Fire (OR), Lions Fire (CA), and some additional fires in northern California. Walter Johnson recorded the fourth highest 8-hour average O3 in 2018.
		RT	32-003-0075	Joe Neal	72	
		RT	32-003-0043	Paul Meyer	72	
		RT	32-003-0071	Walter Johnson	76	
06/27/2018	Wildfire	RT	32-003-0298	Green Valley	78	Transport of smoke from the Lions Fire, Pawnee Fire, and Lane Fire in California, and some ongoing large fires in Oregon and Mexico. Green Valley recorded the highest 8-hour average O3 in 2018.
		RT	32-003-0075	Joe Neal	72	
		RT	32-003-0043	Paul Meyer	75	
		RT	32-003-0071	Walter Johnson	76	
07/14/2018	Wildfire	RT	32-003-0298	Green Valley	78	Transport of smoke from the Ferguson Fire (CA), Georges Fire (CA), Valley Fire (CA), Mohave Fire (CA), Mexico fires, and West Valley Fire (UT). Green Valley recorded the third highest 8-hour average O3 in 2018.
		RT	32-003-0043	Paul Meyer	72	

Exceptional Event Demonstration, Appendix A: Initial Notification

Date of Event	Type of Event	AQS Flag	Site AQS ID	Site Name	Exceedance Concentration (ppb)	Notes (e.g. event name, links to other events)
07/15/2018	Wildfire	RT	32-003-0298	Green Valley	73	This exceedance correlated with the July 14 event. Joe Neal recorded the second highest 8-hour average O3 in 2018.
		RT	32-003-0075	Joe Neal	78	
		RT	32-003-0071	Walter Johnson	71	
07/16/2018	Wildfire	RT	32-003-0298	Green Valley	71	This exceedance correlated with the July 14 event. Walter Johnson recorded the highest 8-hour average O3 in 2018.
		RT	32-003-0075	Joe Neal	80	
		RT	32-003-0043	Paul Meyer	75	
		RT	32-003-0071	Walter Johnson	79	
07/17/2018	Wildfire	RT	32-003-0043	Paul Meyer	74	This exceedance correlated with the July 14 event. Walter Johnson recorded the third highest 8-hour average O3 in 2018.
		RT	32-003-0071	Walter Johnson	77	
07/25/2018	Wildfire	RT	32-003-0298	Green Valley	72	Regional smoke created by the Ferguson Fire, Georges Fire, Lions Fire, and Cranston Fire in California, and additional fires in Mexico.
		RT	32-003-0043	Paul Meyer	71	
		RT	32-003-0071	Walter Johnson	72	
07/26/2018	Wildfire	RT	32-003-0298	Green Valley	77	This exceedance correlated with the July 25 event.
		RT	32-003-0043	Paul Meyer	72	
		RT	32-003-0071	Walter Johnson	75	
07/27/2018	Wildfire	RT	32-003-0075	Joe Neal	76	This exceedance correlated with the July 25 event. Joe Neal recorded the fourth highest 8-hour average O3 in 2018.
		RT	32-003-0043	Paul Meyer	72	
		RT	32-003-0071	Walter Johnson	74	
07/30/2018	Wildfire	RT	32-003-0298	Green Valley	73	Regional smoke created by the Carr Fire, Mendocino Complex Fire, Whaleback Fire, Ferguson Fire, Lions Fire, Georges Fire, and Cranston Fire in California.
07/31/2018	Wildfire	RT	32-003-0075	Joe Neal	73	This exceedance correlated with the July 30 event.
		RT	32-003-0071	Walter Johnson	73	
08/06/2018	Wildfire	RT	32-003-0298	Green Valley	74	Regional smoke created by the ongoing Carr Fire, Mendocino Complex Fire, Ferguson Fire, Lions Fire, and an additional new
		RT	32-003-0075	Joe Neal	76	

Exceptional Event Demonstration, Appendix A: Initial Notification

Date of Event	Type of Event	AQS Flag	Site AQS ID	Site Name	Exceedance Concentration (ppb)	Notes (e.g. event name, links to other events)
		RT	32-003-0043	Paul Meyer	79	fire, Donnell. Paul Meyer and Walter Johnson recorded the first and second highest 8-hour average O3 in 2018, respectively.
		RT	32-003-0071	Walter Johnson	77	
08/07/2018	Wildfire	RT	32-003-0298	Green Valley	72	This exceedance correlated with the August 6 event.
		RT	32-003-0075	Joe Neal	74	
		RT	32-003-0043	Paul Meyer	73	
		RT	32-003-0071	Walter Johnson	74	
05/06/2020	Stratospheric Intrusion	RO	32-003-0298	Green Valley	72	An upper-level, ozone-rich air mass was observed to the west of Clark County in the days leading up to this event. Descending transport was observed between the upper-level air mass and monitoring sites in Clark County.
		RO	32-003-0075	Joe Neal	76	
		RO	32-003-0043	Paul Meyer	77	
		RO	32-003-0071	Walter Johnson	78	
05/09/2020	Stratospheric Intrusion	RT	32-003-0043	Paul Meyer	74	An upper-level, ozone-rich air mass was observed to the southwest of Clark County in the days leading up to this event. Transport was observed between the upper-level air mass and monitoring sites in Clark County.
		RT	32-003-0071	Walter Johnson	71	
05/28/2020	Stratospheric Intrusion	RO	32-003-0043	Paul Meyer	76	An upper-level, ozone-rich air mass was observed over Clark County and to the south of Clark County in the days leading up to and on the day of this event. A large mixing layer and descending transport were observed from the upper-level air mass to monitoring sites in Clark County.
		RO	32-003-0071	Walter Johnson	71	
06/22/2020	Wildfire	RT	32-003-0075	Joe Neal	78	The Ivanpah Fire was observed in the Mojave National Preserve on the day of this event, with a smoke plume intersecting Clark County. Other regional fires that are likely to have been influential during this event: Grade Fire (CA), Magnum Fire (AZ), Bush Fire (AZ), and Bighorn Fire (AZ).
		RT	32-003-0043	Paul Meyer	74	
		RT	32-003-0071	Walter Johnson	73	
06/26/2020	Wildfire	RT	32-003-0043	Paul Meyer	73	Transport from the Rock Path Fire (UT), Twin Fire (NV), and Miller Fire (NV) was seen during this event. The Thermal Mulch Fire (CA) may also have played a role in this event.
08/03/2020	Wildfire	RT	32-003-0298	Green Valley	72	Direct transport of smoke from the Apple Fire in southern California was seen during this event.
		RT	32-003-0075	Joe Neal	81	

Exceptional Event Demonstration, Appendix A: Initial Notification

Date of Event	Type of Event	AQS Flag	Site AQS ID	Site Name	Exceedance Concentration (ppb)	Notes (e.g. event name, links to other events)
		RT	32-003-0043	Paul Meyer	78	
		RT	32-003-0071	Walter Johnson	82	
08/07/2020	Wildfire	RT	32-003-0075	Joe Neal	72	Direct transport of smoke from the Apple Fire in southern California was seen during this event.
		RT	32-003-0071	Walter Johnson	71	
8/18/2020	Wildfire	RT	32-003-0075	Joe Neal	78	Regional smoke created by large fire complexes in CA influenced the 8/18–8/21/2020 events in Clark County: Red Salmon Complex, August Complex, LNU Lightning Complex, SCU Lightning Complex, CZU Lightning Complex, Lake Fire, River Fire, Carmel Fire, North Range Fire, and Dome Fire. Other possible fires affecting regional smoke include: Cold Springs Fire, North Complex, Loyalton Fire, and Dolan Fire (all in CA).
		RT	32-003-0043	Paul Meyer	79	
		RT	32-003-0071	Walter Johnson	82	
08/19/2020	Wildfire	RT	32-003-0298	Green Valley	71	Regional smoke created by large fire complexes in CA influenced the 8/18–8/21/2020 events in Clark County: Red Salmon Complex, August Complex, LNU Lightning Complex, SCU Lightning Complex, CZU Lightning Complex, Lake Fire, River Fire, Carmel Fire, North Range Fire, and Dome Fire. Other possible fires affecting regional smoke include: Cold Springs Fire, North Complex, Loyalton Fire, and Dolan Fire (all in CA).
		RT	32-003-0075	Joe Neal	73	
		RT	32-003-0043	Paul Meyer	74	
		RT	32-003-0071	Walter Johnson	74	
08/20/2020	Wildfire	RT	32-003-0075	Joe Neal	71	Regional smoke created by large fire complexes in CA influenced the 8/18–8/21/2020 events in Clark County: Red Salmon Complex, August Complex, LNU Lightning Complex, SCU Lightning Complex, CZU Lightning Complex, Lake Fire, River Fire, Carmel Fire, North Range Fire, and Dome Fire. Other possible fires affecting regional smoke include: Cold Springs Fire, North Complex, Loyalton Fire, and Dolan Fire (all in CA).
08/21/2020	Wildfire	RT	32-003-0043	Paul Meyer	71	Regional smoke created by large fire complexes in CA influenced the 8/18–8/21/2020 events in Clark County: Red Salmon Complex, August Complex, LNU Lightning Complex, SCU Lightning Complex, CZU Lightning Complex, Lake Fire, River Fire, Carmel Fire, North Range Fire, and Dome Fire. Other possible fires affecting regional smoke include: Cold Springs Fire, North Complex, Loyalton Fire, and Dolan Fire (all in CA).
09/02/2020	Wildfire	RT	32-003-0043	Paul Meyer	73	

Date of Event	Type of Event	AQS Flag	Site AQS ID	Site Name	Exceedance Concentration (ppb)	Notes (e.g. event name, links to other events)
		RT	32-003-0071	Walter Johnson	75	Smoke created by the Evans Canyon Fire (WA), White River Fire (OR), and Lionshead Fire (OR) was transported to the Clark County area, resulting in this event. Other fires in CA that are likely to have contributed to this event: Slink Fire, SQF Lightning Complex, Dolan Fire, North Complex, SCU Lightning Complex, August Complex, and Red Salmon Complex.
09/26/2020	Wildfire	RT	32-003-0075	Joe Neal	75	Large fire complexes in CA led to regional smoke affecting Clark County during this event: Red Salmon Complex, August Complex, North Complex, SQF Lightning Complex, Blue Jay/Wolf Fires, Creek Fire, Bobcat Fire, El Dorado Fire, and (possibly) the Slater/Devil Fires.
		RT	32-003-0071	Walter Johnson	71	

B) Violating Sites Information

(Listing of all violating sites in the planning area, regardless of operating agency, and regardless of whether or not they are impacted by EEs)

Site/monitor (AQS ID and POC)	Design Value (<u>without</u> EPA concurrence on any of the events listed in Table A above) (ppb)	Design Value (<u>with</u> EPA concurrence on all events listed in Table A above) (ppb)
Green Valley (32-003-0298, POC: 1)	72 (2020 preliminary)	70
Joe Neal (32-003-0075, POC: 1)	74 (2020 preliminary)	69
Paul Meyer (32-003-0043, POC: 1)	73 (2020 preliminary)	70
Walter Johnson (32-003-0071, POC: 1)	73 (2020 preliminary)	70

C) Summary of Maximum Design Value (DV) Site Information (Effect of EPA Concurrence on Maximum Design Value Site Determination)

(Two highest values from Table B)

Maximum DV site (AQS ID) <u>without</u> EPA concurrence on any of the events listed in table A above	Design Value	Design Value Site	Comment
	74	Joe Neal (32-003-0075, POC: 1)	
Maximum DV site (AQS ID) <u>with</u> EPA concurrence on all events listed in table A above	Design Value	Design Value Site	Comment
	70	Green Valley (32-003-0298, POC: 1) Paul Meyer (32-003-0043, POC: 1) Walter Johnson (32-003-0071, POC: 1)	Maximum DV at all 3 sites is same

D) List of any sites (AQS ID) within planning area with invalid design values (e.g., due to data incompleteness)

The Department of Environment and Sustainability does not anticipate any sites having invalid design values for the 2018–2020 design value period; however, final data for 2020 is still being collected and pending year-end submission.

APPENDIX B

PUBLIC NOTIFICATION

Real-time air quality data, Air Quality Index (AQI) maps, daily air quality forecasts, and event notifications are available on the DES website (<https://clarkcountynvairquality.meteostar.com>). Air quality forecasts and current data are also available through EPA's AirNow and EnviroFlash systems. DES issues air quality advisories and alerts to warn the public and regulated community if unhealthy levels of a regulated pollutant are anticipated, and to provide recommendations on reducing exposure and emissions. Advisories are issued when forecast conditions are favorable for pollutant levels to exceed the NAAQS, i.e., to reach the Unhealthy for Sensitive Groups (USG) level on the AQI, or when public health and safety might be in danger. Alerts are issued when air quality levels have already reached the AQI USG level or are expected to

AQI for July 14–17, 2018

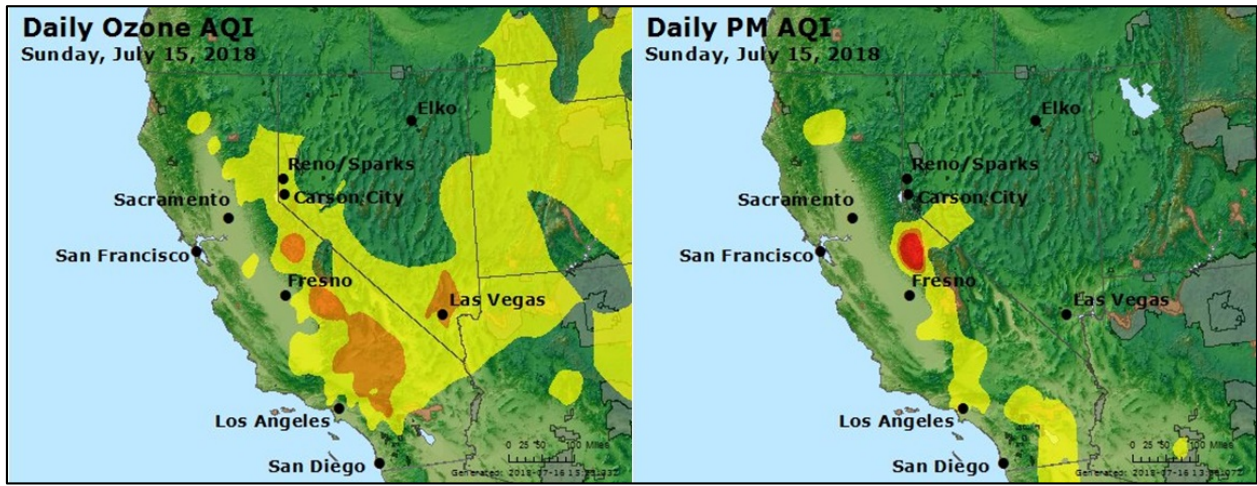
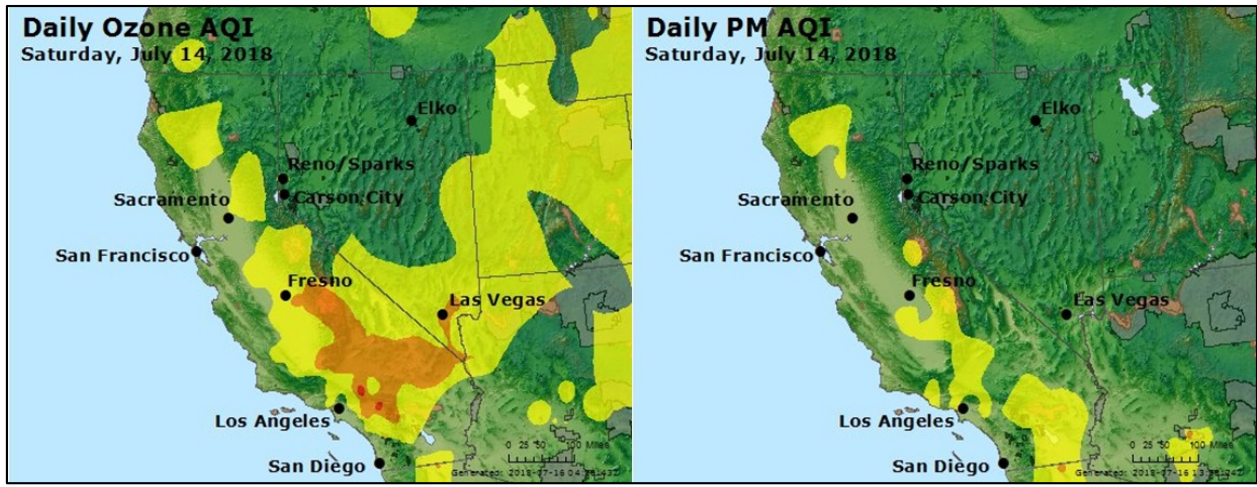
Reporting for July 14, 2018																		
<input type="button" value="July"/> <input type="button" value="14"/> <input type="button" value="2018"/> <input type="button" value="Select a Different Date"/>																		
<input type="checkbox"/> Emulate WWW																		
Metropolitan Area or Non-Metropolitan County	Air Quality Rating	Critical Pollutant	Air Quality Index															
			Ozone				Carbon Monoxide		Sulfur Dioxide		Nitrogen Dioxide		PM-10 (Std Cond)		PM-2.5 (Lcl Acpt)		PM-2.5 (Lcl Cond)	
			1-Hour		8-Hour		8-Hour		1-Hour		1-Hour		24-Hour		24-Hour		24-Hour	
			AQI	ppb	AQI	ppb	AQI	ppm	AQI	ppb	AQI	ppb	AQI	µg/m ³ (25° C)	AQI	µg/m ³ LC	AQI	µg/m ³ LC
Clark County -- Region 1																		
Apex	Moderate	Ozone	*	83	100	70												
Boulder City	Moderate	Ozone	*	71	87	66						19	19.99					
Greater Las Vegas	Unhealthy for sensitive groups	Ozone	*	90	126	78	2	0.148	1	0.4	27	28.1	26	27.71		40	9.87	
Indian Springs	Moderate	Ozone	*	60	58	57												
Jean	†		*	71		‡							§§				§§	
Mesquite	Moderate	Ozone	*	61	61	58												
Reporting for July 14, 2018 <input type="button" value="July"/> <input type="button" value="14"/> <input type="button" value="2018"/> <input type="button" value="Select a Different Date"/>																		
<input type="checkbox"/> Emulate WWW																		
Return to Main AQI Report																		
Monitoring Sites in the Greater Las Vegas Metro Area	Air Quality Rating	Critical Pollutant	Air Quality Index															
			Ozone				Carbon Monoxide		Sulfur Dioxide		Nitrogen Dioxide		PM-10 (Std Cond)		PM-2.5 (Lcl Acpt)		PM-2.5 (Lcl Cond)	
			1-Hour		8-Hour		8-Hour		1-Hour		1-Hour		24-Hour		24-Hour		24-Hour	
			AQI	ppb	AQI	ppb	AQI	ppm	AQI	ppb	AQI	ppb	AQI	µg/m ³ (25° C)	AQI	µg/m ³ LC	AQI	µg/m ³ LC
Clark County	Unhealthy for sensitive groups	Ozone	*	90	126	78	2	0.148	1	0.4	27	28.1	26	27.71			40	9.87
Casino Center	Good	Nitrogen Dioxide									21	21.9						
Green Valley	Unhealthy for sensitive groups	Ozone	*	84	126	78							22	24.24			29	7.16
Jerome Mack	Unhealthy for sensitive groups	Ozone	*	90	126	78			1	0.4	21	22.3					40	9.87
Joe Neal	Moderate	Ozone	*	79	87	66					16	16.8	12	12.64			22	5.40
Palo Verde	Moderate	Ozone	*	67	67	60							20	21.82				
Paul Meyer	Unhealthy for sensitive groups	Ozone	*	82	104	72							25	26.72			30	7.53
Rancho & Teddy	Good	Nitrogen Dioxide					0	NV			27	28.1						§§
Sunrise Acres	Good	PM-2.5					2	0.148			25	26.8	26	27.71			35	8.59
Walter Johnson	Moderate	Ozone	*	77	87	66							22	24.11				

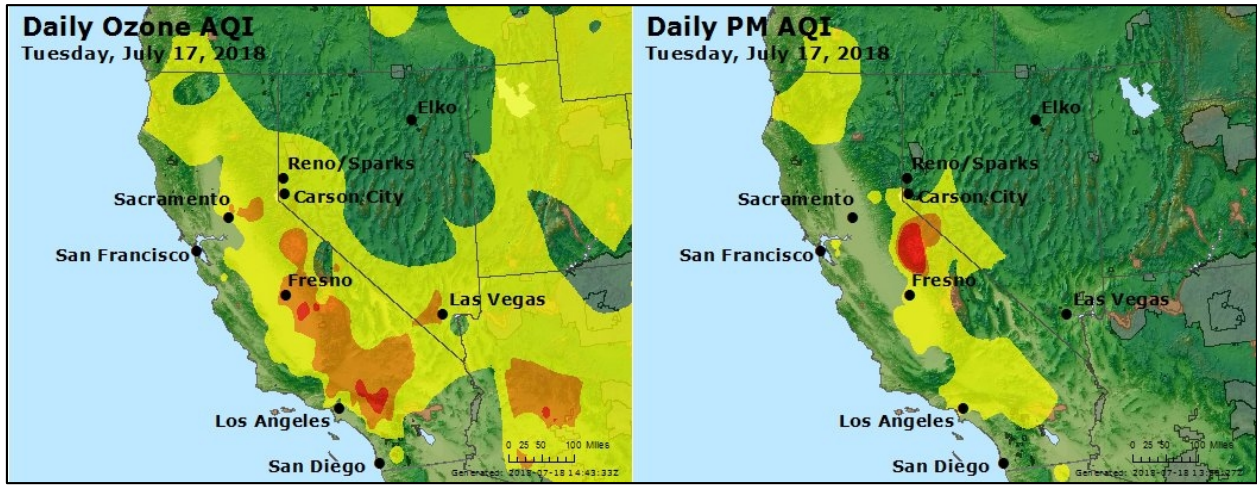
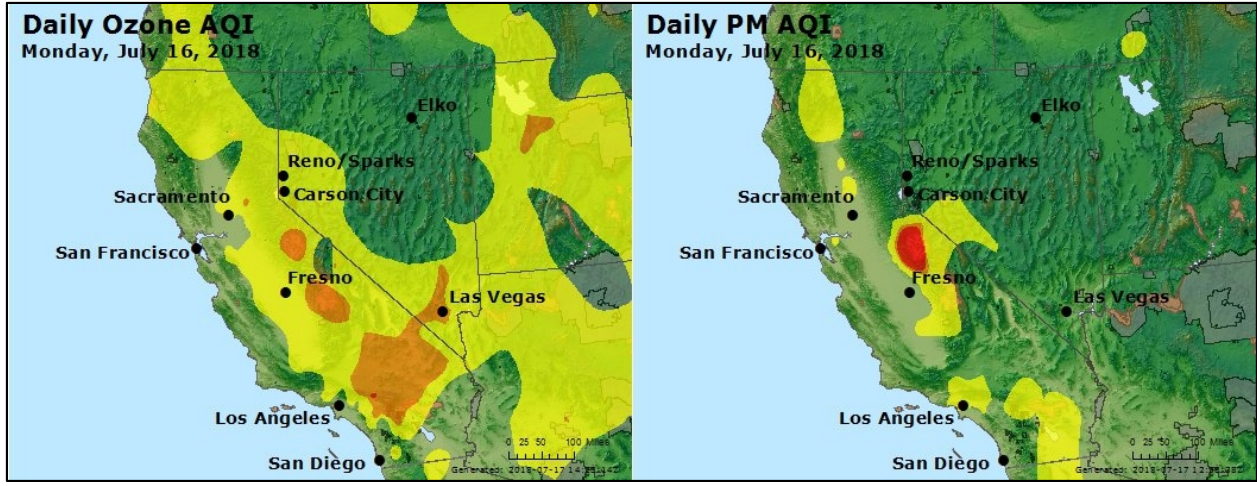
Reporting for July 15, 2018																		
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Metropolitan Area or Non-Metropolitan County	Air Quality Rating	Critical Pollutant	Air Quality Index															
			Ozone				Carbon Monoxide		Sulfur Dioxide		Nitrogen Dioxide		PM-10 (Std Cond)		PM-2.5 (Lcl Acpt)		PM-2.5 (Lcl Cond)	
			1-Hour		8-Hour		8-Hour		1-Hour		1-Hour		24-Hour		24-Hour		24-Hour	
			AQI	ppb	AQI	ppb	AQI	ppm	AQI	ppb	AQI	ppb	AQI	ppb	AQI	µg/m ³ (25° C)	AQI	µg/m ³ LC
Clark County -- Region 1																		
Apex	Moderate	Ozone	*	73	100	70												
Boulder City	Moderate	Ozone	*	68	87	66							12	13.48				
Greater Las Vegas	Unhealthy for sensitive groups	Ozone	*	82	126	78	4	0.354	0	0.3	28	29.4	18	18.98			30	7.55
Indian Springs	Moderate	Ozone	*	66	64	59												
Jean	Moderate	Ozone	*	64	74	62							17	17.89			23	5.71
Mesquite	Moderate	Ozone	*	63	71	61												
Reporting for July 15, 2018 <input type="button" value="July"/> <input type="button" value="15"/> <input type="button" value="2018"/> <input type="button" value="Select a Different Date"/>																		
<input type="checkbox"/> Emulate WWW																		
Return to Main AQI Report																		
Monitoring Sites in the Greater Las Vegas Metro Area	Air Quality Rating	Critical Pollutant	Air Quality Index															
			Ozone				Carbon Monoxide		Sulfur Dioxide		Nitrogen Dioxide		PM-10 (Std Cond)		PM-2.5 (Lcl Acpt)		PM-2.5 (Lcl Cond)	
			1-Hour		8-Hour		8-Hour		1-Hour		1-Hour		24-Hour		24-Hour		24-Hour	
			AQI	ppb	AQI	ppb	AQI	ppm	AQI	ppb	AQI	ppb	AQI	ppb	AQI	µg/m ³ (25° C)	AQI	µg/m ³ LC
Clark County	Unhealthy for sensitive groups	Ozone	*	82	126	78	4	0.354	0	0.3	28	29.4	18	18.98			30	7.55
Casino Center	Good	Nitrogen Dioxide									27	28.8						
Green Valley	Unhealthy for sensitive groups	Ozone	*	76	108	73							13	13.66			22	5.45
Jerome Mack	Unhealthy for sensitive groups	Ozone	*	81	108	73			0	0.3	9	9.9					30	7.55
Joe Neal	Unhealthy for sensitive groups	Ozone	*	82	126	78					9	9.2	10	10.80			20	5.06
Palo Verde	Moderate	Ozone	*	72	93	68							15	15.77				
Paul Meyer	Moderate	Ozone	*	75	100	70							18	18.98			25	6.22
Rancho & Teddy	Good	Nitrogen Dioxide					4	0.354			28	29.4					25	6.25
Sunrise Acres	Good	PM-2.5					1	0.068			10	10.4	18	18.96			28	6.91
Walter Johnson	Unhealthy for sensitive groups	Ozone	*	75	101	71							17	18.02				

Reporting for July 16, 2018																		
July 16 2018 Select a Different Date <input type="checkbox"/> Emulate WWW																		
Metropolitan Area or Non-Metropolitan County	Air Quality Rating	Critical Pollutant	Air Quality Index															
			Ozone				Carbon Monoxide		Sulfur Dioxide		Nitrogen Dioxide		PM-10 (Std Cond)		PM-2.5 (Lcl Acpt)		PM-2.5 (Lcl Cond)	
			1-Hour		8-Hour		8-Hour		1-Hour		1-Hour		24-Hour		24-Hour		24-Hour	
			AQI	ppb	AQI	ppb	AQI	ppm	AQI	ppb	AQI	ppb	AQI	µg/m ³ (25° C)	AQI	µg/m ³ LC	AQI	µg/m ³ LC
Clark County -- Region 1																		
Apex	Moderate	Ozone	*	72	90	67												
Boulder City	Moderate	Ozone	*	61	58	57						19	20.88					
Greater Las Vegas	Unhealthy for sensitive groups	Ozone	*	87	132	80	5	0.445	1	0.4	32	33.9	25	27.25			38	9.52
Indian Springs	Moderate	Ozone	*	74	74	62												
Jean	Moderate	Ozone	*	67	84	65							20	21.86			25	6.31
Mesquite	Moderate	Ozone	*	59	64	56												
Reporting for July 16, 2018 July 16 2018 Select a Different Date <input type="checkbox"/> Emulate WWW Return to Main AQI Report																		
Monitoring Sites in the Greater Las Vegas Metro Area	Air Quality Rating	Critical Pollutant	Air Quality Index															
			Ozone				Carbon Monoxide		Sulfur Dioxide		Nitrogen Dioxide		PM-10 (Std Cond)		PM-2.5 (Lcl Acpt)		PM-2.5 (Lcl Cond)	
			1-Hour		8-Hour		8-Hour		1-Hour		1-Hour		24-Hour		24-Hour		24-Hour	
			AQI	ppb	AQI	ppb	AQI	ppm	AQI	ppb	AQI	ppb	AQI	µg/m ³ (25° C)	AQI	µg/m ³ LC	AQI	µg/m ³ LC
Clark County	Unhealthy for sensitive groups	Ozone	*	87	132	80	5	0.445	1	0.4	32	33.9	25	27.25			38	9.52
Casino Center	Good	Nitrogen Dioxide									27	28.9						
Green Valley	Unhealthy for sensitive groups	Ozone	*	76	101	71							20	22.11			28	6.89
Jerome Mack	Unhealthy for sensitive groups	Ozone	*	80	108	73			1	0.4	12	12.8					38	9.52
Joe Neal	Unhealthy for sensitive groups	Ozone	*	87	132	80					10	10.5	12	13.08			24	5.91
Palo Verde	Unhealthy for sensitive groups	Ozone	*	87	115	75							23	24.63				
Paul Meyer	Unhealthy for sensitive groups	Ozone	*	85	115	75							25	26.62			29	7.23
Rancho & Teddy	Good	Nitrogen Dioxide					5	0.445			32	33.9					32	7.97
Sunrise Acres	Good	PM-2.5					0	0.023			13	14.1	25	27.25			34	8.50
Walter Johnson	Unhealthy for sensitive groups	Ozone	*	86	129	79							23	24.33				

Reporting for July 17, 2018																		
July 17 2018 Select a Different Date <input type="checkbox"/> Emulate WWW																		
Metropolitan Area or Non-Metropolitan County	Air Quality Rating	Critical Pollutant	Air Quality Index															
			Ozone				Carbon Monoxide		Sulfur Dioxide		Nitrogen Dioxide		PM-10 (Std Cond)		PM-2.5 (Lcl Acpt)		PM-2.5 (Lcl Cond)	
			1-Hour		8-Hour		8-Hour		1-Hour		1-Hour		24-Hour		24-Hour		24-Hour	
			AQI	ppb	AQI	ppb	AQI	ppm	AQI	ppb	AQI	ppb	AQI	µg/m ³ (25° C)	AQI	µg/m ³ LC	AQI	µg/m ³ LC
Clark County -- Region 1																		
Apex	Moderate	Ozone	*	64	67	60												
Boulder City	Good	Ozone	*	55	46	60						27	28.76					
Greater Las Vegas	Unhealthy for sensitive groups	Ozone	*	83	122	77	0	0.031	1	0.4	36	38.2	38	41.36		46	11.43	
Indian Springs	Moderate	Ozone	*	78	87	66												
Jean	↑		*	68		‡							§§				§§	
Mesquite	Moderate	Ozone	*	58	51	55												
Reporting for July 17, 2018																		
July 17 2018 Select a Different Date <input type="checkbox"/> Emulate WWW Return to Main AQI Report																		
Monitoring Sites in the Greater Las Vegas Metro Area	Air Quality Rating	Critical Pollutant	Air Quality Index															
			Ozone				Carbon Monoxide		Sulfur Dioxide		Nitrogen Dioxide		PM-10 (Std Cond)		PM-2.5 (Lcl Acpt)		PM-2.5 (Lcl Cond)	
			1-Hour		8-Hour		8-Hour		1-Hour		1-Hour		24-Hour		24-Hour		24-Hour	
			AQI	ppb	AQI	ppb	AQI	ppm	AQI	ppb	AQI	ppb	AQI	µg/m ³ (25° C)	AQI	µg/m ³ LC	AQI	µg/m ³ LC
Clark County	Unhealthy for sensitive groups	Ozone	*	83	122	77	0	0.031	1	0.4	36	38.2	38	41.36		46	11.43	
Casino Center	Good	Nitrogen Dioxide									36	38.2						
Green Valley	Moderate	Ozone	*	61	64	59						26	28.14			31	7.79	
Jerome Mack	Moderate	Ozone	*	61	61	58			1	0.4	10	11.0				46	11.43	
Joe Neal	Moderate	Ozone	*	74	97	69					10	11.1	15	16.06		27	6.75	
Palo Verde	Unhealthy for sensitive groups	Ozone	*	83	112	74							30	32.63				
Paul Meyer	Unhealthy for sensitive groups	Ozone	*	80	112	74							38	41.36		36	9.03	
Rancho & Teddy	Good	Nitrogen Dioxide					0	NV			29	31.2					§§	
Sunrise Acres	Good	PM-2.5					0	0.031			12	13.1	36	39.01		42	10.48	
Walter Johnson	Unhealthy for sensitive groups	Ozone	*	83	122	77							35	37.28				

AQI maps for July 14–17, 2018





Air Quality Forecast

AIR QUALITY FORECAST

Seasonal Ozone Advisory Issued Through Sept. 30

Forecast

(Updated 7/13/2018)

	Ozone	Carbon Monoxide	Dust/Smoke/Soot
Fri (7/13/2018)	Moderate	Good	Good
Sat (7/14/2018)	Moderate	Good	Good
Sun (7/15/2018)	Moderate	Good	Good
Mon (7/16/2018)	Moderate	Good	Good
Tue (7/17/2018)	Moderate	Good	Good

From our Meteorologists:

No change to weather pattern as Monsoon moisture, light E-S winds, variable cloud cover, and potential for afternoon/evening showers and/or thunderstorms are the norm for today. So, expect the AQ to fall in the higher end of the Moderate level for the period as cloud cover should hamper local Ozone production. -- You can follow Clark County air quality conditions and updates on Twitter: @CCAirQuality. --

[More Detailed Monitoring Information](#)
[What is an Air Quality Advisory or Alert?](#)

Other questions or comments?

Paul Fransioli: (702) 455-2656 Paul.Fransioli@ClarkCountyNV.gov

Jose Chaverria: (702) 455-1633 Jose.Chaverria@clarkcountynv.gov

AIR QUALITY FORECAST

Ozone Advisory Issued for Monday, July 16

Forecast

(Updated 7/16/2018)

	Ozone	Carbon Monoxide	Dust/Smoke/Soot
Mon (7/16/2018)	UNH-SG	Good	Good
Tue (7/17/2018)	Moderate	Good	Good
Wed (7/18/2018)	Moderate	Good	Good
Thu (7/19/2018)	Moderate	Good	Good
Fri (7/20/2018)	Moderate	Good	Good

From our Meteorologists:

Persisting hot, humid and low wind speeds weather today will continue our Unhealthy for Sensitive Groups AQI ozone levels today. Slightly better winds tomorrow should improve ozone to Moderate AQI levels, though we are watching for influence of regional wildfire smoke impacts that could increase ozone. -- You can follow Clark County air quality conditions and updates on Twitter: @CCAirQuality. --

[More Detailed Monitoring Information](#)
[What is an Air Quality Advisory or Alert?](#)

Other questions or comments?

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Jose Chaverria: (702) 455-1633 Jose.Chaverria@clarkcountynv.gov

AIR QUALITY FORECAST

Ozone Advisory Extended Through Wednesday

Forecast

(Updated 7/17/2018)

	Ozone	Carbon Monoxide	Dust/Smoke/Soot
Tue (7/17/2018)	UNH-SG	Good	Good
Wed (7/18/2018)	UNH-SG	Good	Good
Thu (7/19/2018)	Moderate	Good	Good
Fri (7/20/2018)	Moderate	Good	Good
Sat (7/21/2018)	Moderate	Good	Good

From our Meteorologists:

High pressure continues to dominate area with a disturbance over AZ/CA resulting in a light E-SW wind flow. With scattered fires over the SW US, expect some smoke to be transported into the area which will help in the local Ozone production. So, expect an AQ in the Unhealthy for Sensitive Groups level for a couple of days. -- You can follow Clark County air quality conditions and updates on Twitter: @CCAirQuality. --

[More Detailed Monitoring Information](#)
[What is an Air Quality Advisory or Alert?](#)

Other questions or comments?

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Air Quality Advisory



News Release

County Commission:
Steve Sisolak, Chairman
Chris Giunchigliani, Vice Chair
Susan Brager
Larry Brown
James B. Gibson
Marilyn Kirkpatrick
Lawrence Weekley

Yolanda King, County Manager

Office of Public Communications • (702) 455-3546 • FAX (702) 455-3558 • www.ClarkCountyNV.gov

Contact: Kevin J MacDonald
Public Information Officer

Phone: (702) 455-8131
Mobile: (702) 232-0931
E-mail: kevmac@ClarkCountyNV.gov

For Immediate Release

Friday, March 30, 2018

Seasonal Ozone Advisory Issued Through Sept. 30

The Clark County Department of Air Quality issued a season-long advisory for ground-level ozone pollution today that will be in effect from Sunday, April 1 – Sunday, Sept. 30.

Ozone is a colorless gas that exists naturally in the Earth's upper atmosphere. At ground level, ozone is a key ingredient of urban smog that can build up during the day in the hottest months of the year because of strong sunlight, hot temperatures, gasoline and chemical vapors, and pollutants from automobiles, wildfires and regional transport. Exposure to ozone can irritate your respiratory system and cause coughing, a sore throat, chest pain and shortness of breath even in healthy people, according to the EPA.

"Through a combined effort from local agencies, industry and individuals, the air quality in Clark County continues to improve each year," said Department of Air Quality Director Marci Henson. "While we at Air Quality continue to enforce the EPA standards on ozone and other pollutants in the interest of the our residents and visitors, the people of Clark County can also play an important role in minimizing ground-level ozone."

HELPFUL TIPS TO REDUCE OZONE

Because cars, trucks and other vehicles are major contributors to ozone, people can follow these helpful, everyday tips to reduce ozone:


- Reduce driving – combine errands into one trip.
- Don't idle your car engine unnecessarily.
- Use mass transit or carpool.
- Fill up your gas tank after sunset. Try not to spill gasoline when filling up and don't top off your tank.
- Keep your car well maintained.
- Consider landscaping that uses less water and gas-powered equipment to maintain.
- Turn off lights and electronics when not in use. Less fuel burned at power plants means cleaner air.

Also, if you have respiratory issues or other health concerns, consider these tips during ozone season:

- Reduce the time you are active outdoors when ozone levels are elevated, especially if you are engaged in a strenuous activity or have a respiratory disease.
- Schedule activities for the morning or evening when ozone levels are usually lower.
- Substitute a less intense activity – walking instead of jogging, for example.
- Always consult your doctor first for medical advice.

[more]

Clark County news releases may be found at www.ClarkCountyNV.gov.
You may also follow the County on more than 40 social media sites, including Facebook, Twitter, Instagram, LinkedIn, NextDoor, Pinterest and YouTube.



News Release

County Commission:
 Steve Stucke, Chairman
 Chris Gundrighien, Vice Chair
 Susan Siegel
 Larry Brown
 James S. Gibson
 Marilyn Kirkpatrick
 Lawrence Winkley
 Yolanda Kim, County Manager

Office of Public Communications • (702) 455-3546 • FAX (702) 455-3558 • www.ClarkCountyNV.gov

Contact: Kevin J MacDonald
 Public Information Officer

Phone: (702) 455-8131
 Mobile: (702) 232-9931
 E-mail: kjmac@ClarkCountyNV.gov


Phone: (702) 455-8131
 Mobile: (702) 232-9931
 E-mail: kjmac@ClarkCountyNV.gov

Monday, July 16, 2018

For Immediate Release

Air Quality Issues Ozone Advisory for Monday

The Clark County Department of Air Quality issued an advisory for ground-level ozone pollution for Monday, July 16.



Ozone is a colorless gas that exists naturally in the Earth's upper atmosphere. At ground level, ozone is a key ingredient of urban smog that can build up during the day in the hottest months of the year because of strong sunlight, hot temperatures, gasoline and chemical vapors, and pollutants from automobiles, wildfires and regional transport. Exposure to ozone can irritate your respiratory system and cause coughing, a sore throat, chest pain and shortness of breath even in healthy people, according to the EPA.

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Phone: (702) 455-8131
 Mobile: (702) 232-9931
 E-mail: kjmac@ClarkCountyNV.gov

Tuesday, July 17, 2018

For Immediate Release

Ozone Advisory Extended Through Wednesday

The Clark County Department of Air Quality is extending its advisory for ground-level ozone pollution to include Tuesday, July 17 and Wednesday, July 18. The advisory, issued yesterday, now includes smoke from regional wildfires moving into the area as a contributing factor.



Ozone is a colorless gas that exists naturally in the Earth's upper atmosphere. At ground level, ozone is a key ingredient of urban smog that can build up during the day in the hottest months of the year because of strong sunlight, hot temperatures, gasoline and chemical vapors, and pollutants from automobiles, wildfires and regional transport. Exposure to ozone can irritate your respiratory system and cause coughing, a sore throat, chest pain and shortness of breath even in healthy people, according to the EPA.

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News Release

Clark County is a dynamic and innovative organization dedicated to providing top-quality service with integrity, respect and accountability. With jurisdiction over the world-famous Las Vegas Strip and covering an area the size of New Jersey, Clark is the nation's 14th-largest county and provides extensive regional services to more than 2.2 million citizens and 46.2 million visitors a year. Included are the nation's 8th-busiest airport, air quality compliance, social services and the state's largest public hospital, University Medical Center. The County also provides municipal services that are traditionally provided by cities to about 951,000 residents in the unincorporated area. Those include fire protection, roads and other public works, parks and recreation, and planning and development.

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APPENDIX C

Documentation of Public Comment Process

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1.0 30-DAY PUBLIC COMMENT PERIOD

1.1 NOTICE OF PUBLIC COMMENT

NOTICE OF PUBLIC COMMENT PERIOD ON FINAL EXCEPTIONAL EVENT DEMONSTRATIONS

NOTICE IS HEREBY GIVEN of a public comment period on the final exceptional event demonstrations identified below. The Exceptional Events Rule (EER), codified at 40 CFR 50.1, 50.14, and 51.930, allows air agencies to petition the U.S. Environmental Protection Agency (EPA) to exclude air quality monitoring data influenced by exceptional events from applicable regulatory determinations. Between 2018 and 2020, Clark County recorded several exceedances of the 2015 8-hour ozone National Ambient Air Quality Standard (NAAQS) due to impacts from wildfire smoke or stratospheric intrusions. The following table details these exceedances. The Clark County Department of Environment and Sustainability (DES) developed these demonstrations to show that exceedances would not have occurred without wildfire impacts and requests exclusion of event-related data from use in regulatory determinations in accordance with the EER.

NOTICE IS FURTHER GIVEN that a 30-day public comment period will begin on September 3, 2021, and end at 4:00 PM on October 4, 2021, in accordance with the requirements of 40 CFR 50.14(c)(3)(v). The public may review and provide written comments on these demonstrations during this period. Copies of the demonstrations are available for review on the DES website at: https://www.clarkcountynv.gov/government/departments/environment_and_sustainability/public_communications/public_notices.php and may also be obtained by contacting Araceli Pruet at (702) 455-3206.

Any written comments must be received by DES at 4701 W. Russell Road, Suite 200, Las Vegas, Nevada 89118, by 4:00 PM on October 4, 2021. Comments should be addressed to Araceli Pruet at the same mailing address, emailed to araceli.pruett@clarkcountynv.gov, or faxed to (702) 383-9994. All comments will be considered and forwarded to EPA.

Published: September 2, 2021


Marci D. Henson, Director

Final 2018 and 2020 Exceptional Events

Date of Event	Type of Event	Site Name	Exceedance Concentration (ppb)
06/23/2018	Wildfire	Green Valley	75
		Joe Neal	72
		Paul Meyer	72
		Walter Johnson	76
06/27/2018	Wildfire	Green Valley	78
		Joe Neal	72
		Paul Meyer	75
		Walter Johnson	76
07/14/2018	Wildfire	Green Valley	78
		Paul Meyer	72
07/15/2018	Wildfire	Green Valley	73
		Joe Neal	78
		Walter Johnson	71
07/16/2018	Wildfire	Green Valley	71
		Joe Neal	80
		Paul Meyer	75
		Walter Johnson	79
07/17/2018	Wildfire	Paul Meyer	74
		Walter Johnson	77
07/25/2018	Wildfire	Green Valley	72
		Paul Meyer	71
		Walter Johnson	72
07/26/2018	Wildfire	Green Valley	77
		Paul Meyer	72
		Walter Johnson	75
07/27/2018	Wildfire	Joe Neal	76
		Paul Meyer	72
		Walter Johnson	74
07/30/2018	Wildfire	Green Valley	73
07/31/2018	Wildfire	Joe Neal	73
		Walter Johnson	73
08/06/2018	Wildfire	Green Valley	74
		Joe Neal	76
		Paul Meyer	79
		Walter Johnson	77
08/07/2018	Wildfire	Green Valley	72
		Joe Neal	74
		Paul Meyer	73
		Walter Johnson	74

Table continued on next page

Date of Event	Type of Event	Site Name	Exceedance Concentration (ppb)
08/03/2020	Wildfire	Green Valley Joe Neal Paul Meyer Walter Johnson	72 81 78 82
08/07/2020	Wildfire	Joe Neal Walter Johnson	72 71
08/18/2020	Wildfire	Joe Neal Paul Meyer Walter Johnson	78 79 82
08/19/2020	Wildfire	Green Valley Joe Neal Paul Meyer Walter Johnson	71 73 74 74
08/20/2020	Wildfire	Joe Neal	71
08/21/2020	Wildfire	Paul Meyer	71
09/26/2020	Wildfire	Joe Neal Walter Johnson	75 71

1.2 DES WEBSITE NOTICES

AIR QUALITY PLANNING NOTICES

▼ Thu., September 2, 2021 - Public Notice for Final 2018 and 2020 Exceptional Event Demonstrations

DES welcomes comments on the final exceptional event demonstrations identified in the table below. Under the Exceptional Events Rule (EER), codified at 40 CFR 50.1, 50.14, and 51.930, air agencies are allowed to petition the U.S. Environmental Protection Agency (EPA) to exclude air quality monitoring data influenced by exceptional events from applicable regulatory determinations. Between 2018 and 2020, Clark County recorded several exceedances of the 2015 8-hour ozone National Ambient Air Quality Standard due to impacts from wildfire smoke or stratospheric intrusions. The purpose of these demonstrations is to show that the exceedances would not have occurred without wildfire impacts and request exclusion of event-related data from use in regulatory determinations in accordance with the EER. All comments will be considered and forwarded to EPA.

Public Comment Period:

September 3 through October 4, 2021

Submit comments in writing to:

Araceli Pruett, Senior Planner
 Clark County Department of Environment and Sustainability
 4701 West Russell Road, Suite 200
 Las Vegas, NV 89118
 Phone: 702) 455-3206
 Email: araceli.pruett@clarkcountynv.gov

Review Documents

View [Public Notice](#).

Event Date(s)	Event Type
June 23, 2018 Demonstration Appendices	Wildfire
June 27, 2018 Demonstration Appendices	Wildfire
July 14-17, 2018 Demonstration Appendices	Wildfire
July 25-27, 2018 Demonstration Appendices	Wildfire
July 30-31, 2018 Demonstration Appendices	Wildfire
August 6-7, 2018 Demonstration Appendices	Wildfire
August 3, 2020 Demonstration Appendices	Wildfire
August 7, 2020 Demonstration Appendices	Wildfire
August 18-21, 2020 Demonstration Appendices	Wildfire
September 26, 2020 Demonstration Appendices	Wildfire

1.2.1 Declaration of DES Website Posting

DECLARATION OF WEBSITE POSTING OF PUBLIC NOTICE

STATE OF NEVADA)
) ss.
COUNTY OF CLARK)

I, Araceli Pruett, declare that I am over 18 years of age and a Senior Planner with the Clark County Department of Environment and Sustainability (DES). I declare that the *Exceptional Event Demonstration for Ozone Exceedances in Clark County, Nevada – July 14–17, 2018* was posted on the DES website from September 2 through October 4, 2021. Below is a screenshot of the posting on the DES website at:

https://www.clarkcountynv.gov/government/departments/environment_and_sustainability/public_communications/public_notices.php

AIR QUALITY COMPLIANCE/ENFORCEMENT NOTICES

> ENFORCEMENT NOTICES

AIR QUALITY PERMITTING NOTICES

> Source ID: 18121 - Liberty Conoco - Date of Notice: September 15, 2021

> Source ID: 18120 - 7 Eleven #41270 - Date of Notice: August 25, 2021

AIR QUALITY PLANNING NOTICES

> Thu., September 2, 2021 - Public Notice for Final 2018 and 2020 Exceptional Event Demonstrations

I declare under penalty of perjury that the foregoing is true and correct and that this declaration was executed in Las Vegas, NV, on October 4, 2021.

Araceli Pruett

Araceli Pruett
DES Senior Planner

1.3 DES FACEBOOK POSTING



1.4 DES TWITTER POSTING



1.5 E-NOTICE

Araceli Pruett

From: Araceli Pruett
Sent: Thursday, September 2, 2021 10:29 AM
Subject: NOTICE OF PUBLIC COMMENT PERIOD ON FINAL EXCEPTIONAL EVENT DEMONSTRATIONS

NOTICE IS HEREBY GIVEN of a public comment period on the final exceptional event demonstrations identified below. The Exceptional Events Rule (EER), codified at 40 CFR 50.1, 50.14, and 51.930, allows air agencies to petition the U.S. Environmental Protection Agency (EPA) to exclude air quality monitoring data influenced by exceptional events from applicable regulatory determinations. Between 2018 and 2020, Clark County recorded several exceedances of the 2015 8-hour ozone National Ambient Air Quality Standard (NAAQS) due to impacts from wildfire smoke or stratospheric intrusions. The following table details these exceedances. The Clark County Department of Environment and Sustainability (DES) developed these demonstrations to show that exceedances would not have occurred without wildfire impacts and requests exclusion of event-related data from use in regulatory determinations in accordance with the EER.

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Published: September 2, 2021

1.5.1 E-Notice Distribution List

PLANNING E-NOTICE DISTRIBUTION LIST	
Organization	Contact
Air & Waste Management Association	Paul Fransioli
American Lung Association Nevada	James Martinez
Bureau of Land Management	Lisa Christianson
City of Boulder City	Michael Mays
City of Henderson	Sean Robertson
City of Las Vegas	Marco Velotta
City of Las Vegas	Milagros (Miles) Escuin
City of Las Vegas	Robert Summerfield
City of North Las Vegas	Alfredo Melesio
City of North Las Vegas	Johanna Murphy
Clark County	Daniel Kezar
Clark County	Mario Bermudez
Clark County School District	Chris Dingell
Clark County School District	Dimitrios Karapanagiotis
Las Vegas Valley Water District	Brian Bowler
Nellis Air Force Base	Shimi Mathew
Nevada Department of Environmental Protection	Sheryl Fontaine
Nevada Department of Environmental Protection	Sig Jaunarajs
Nevada Resort Association	Sabrina Santiago
Nevada Resort Association	Virginia Valentine
Regional Flood Control	Steve Parrish
Regional Transportation Commission	Beth Xie
Regional Transportation Commission	Craig Raborn
Sierra Club Toiyabe Chapter	Brian Beffort
Southern Nevada Health District	Nicole Bungum
Southern Nevada Off Road Enthusiasts	Ken Thatcher
Southern Nevada Water Authority	Ayoub Ayoub
Southern Nevada Water Authority	Keiba Crear
Southern Nevada Water Authority	Thomas Maher
Southern Nevada Home Builders	Amanda Moss
Southern Nevada Home Builders	Nat Hodgson
The Nature Conservancy	Jaina Moan
University of Nevada Las Vegas	Dave James, PhD.
Washoe County Health District	Charlene Albee
Washoe County Health District	Daniel Inouye

1.6 PUBLIC COMMENT REPORT

Public Notice: DES Website: September 2 through October 4, 2021

Public Comment Period September 3 through October 4, 2021

Formal Comments Received: None

DES Responses: None