ARCO Recycling Fire Samples-Residence

Ambient Air Sampling Results-Volatile Organic Compounds(VOCs)

October 28, 2017- November 16, 2017

24 Hour Residence Sampling Results

Compound list	Average (1/2mdl)**	Minimum	Maximum	Count***	Short-term Screening Values	Source
	ppb	ppb	ppb			
1,2,4-Trimethylbenzene	0.06	BDL	0.17	2	595	MAGLC
1,3-Butadiene	0.05	BDL	0.10	1	10,000	ERPG-1
2-Butanone	0.27	BDL	0.67	1	200,000	AEGL-1
Acetone	2.54	BDL	4.81	17	13,000	MRLs (intermed.)
Benzene	0.34	BDL	1.77	19	6	MRLs (intermed.)
Carbon tetrachloride	0.07	BDL	0.10	4	30	MRLs (intermed.)
Chloromethane	0.78	0.40	4.56	20	200	MRLs (intermed.)
Dichlorodifluoromethane	0.50	0.44	0.58	20	24,000	MAGLC
Ethanol	3.78	1.39	8.16	20	1,800,000	ERPG-1
Ethylbenzene	0.08	BDL	0.31	5	2000	MRLs (intermed.)
Hexane	0.18	BDL	0.37	17	1,190	MAGLC
Isopropyl alcohol	0.46	BDL	2.22	5	5,000	MAGLC
Methylene chloride	0.07	BDL	0.11	7	300	MRLs (intermed.)
Naphthalene	0.11	BDL	0.23	1	240	MAGLC
n-Butane	1.69	0.54	6.19	20	18,000	MAGLC
n-Heptane	0.06	BDL	0.13	2	10,000	MAGLC
n-Pentane	0.70	0.25	1.35	20	14,286	MAGLC
o-Xylene	0.06	BDL	0.15	2	600	MRLs (intermed.)
Propylene	0.77	0.21	3.20	20	11905	MAGLC
Styrene	0.09	BDL	0.50	3	5000	MRLs (acute)*
Toluene	0.36	0.12	1.07	20	2,000	MRLs (acute)*
Total m&p-xylenes	0.14	BDL	0.37	5	600	MRLs (intermed.)
Trichlorofluoromethane	0.41	0.20	1.04	20	24,000	MAGLC

BDL= below detection limits

ATSDR Minimum Risk Level (MRLs)

***MRL(acute)-**No intermediate value available.

ERPG-Emergency Response Planning Guidelines.The first tier (e.g., ERPG-1) is a temporary, non-disabling effects threshold

AEGL-1 = Acute exposure guideline levels for mild effects

MAGLC= TLV/42

** Average (½ method detection limit): The arithmetic mean (average) listed uses one-half of the method detection limit (1/2 MDL) as the numerical value for non-detected compounds when computing the average of multiple sampling events. This method is standard practice to estimate averages with non-detected values.

Method Detection limit: The method detection limit is the lowest measurement the collection / analysis procedure can accurately

*** Count: Total detections out of 20 sampling events (other samples were below detection limits)

ARCO Recycling Fire Samples- Offsite-Residence

Ambient Air Sampling Results-Volatile Organic Compounds(VOCs)

October 28, 2017- November 16, 2017

24 Hour Offsite-Residence Sampling Results

Compound list	Average (1/2mdl)**	Minimum	Maximum	Count***	Screening Values	Source
	ppb	ppb	ppb			
1,2,4-Trimethylbenzene	0.07	BDL	0.21	3	595	MAGLC
2,2,4-Trimethylpentane	0.11	BDL	0.24	1	7,143	MAGLC
Acetone	2.43	BDL	4.32	11	13000	MRLs (intermed.)
Benzene	0.21	BDL	0.43	14	6	MRLs (intermed.)
Carbon tetrachloride	0.06	BDL	0.10	2	30	MRLs (intermed.)
Chloromethane	0.59	0.53	0.69	15	200	MRLs (intermed.)
Cyclohexane	0.06	BDL	0.16	1	2,400	MAGLC
Dichlorodifluoromethane	0.50	0.44	0.55	15	24,000	MAGLC
Ethanol	5.28	2.57	12.40	15	1,800,000	ERPG-1
Ethylbenzene	0.06	BDL	0.15	3	2,000	MRLs (intermed.)
Hexane	0.22	BDL	0.54	13	1,190	MAGLC
Isopropyl alcohol	0.33	BDL	0.76	3	5,000	MAGLC
Methyl methacrylate	0.10	BDL	0.10	2	17,000	AEGL-1
Methylene chloride	0.06	BDL	0.10	5	300	MRLs (intermed.)
Naphthalene	0.15	BDL	0.37	5	240	MAGLC
n-Butane	1.98	0.47	4.61	15	18,000	MAGLC
n-Heptane	0.07	BDL	0.18	4	10,000	MAGLC
n-Pentane	0.77	0.16	1.70	15	14,286	MAGLC
o-Xylene	0.07	BDL	0.20	4	600	MRLs (intermed.)
Propylene	0.63	BDL	1.14	14	11,905	MAGLC
Toluene	0.36	0.10	1.21	15	2,000	MRLs (acute)*
Total m&p-xylenes	0.17	BDL	0.49	4	600	MRLs (intermed.)
Trichlorofluoromethane	0.22	0.16	0.30	15	24,000	MAGLC

BDL= below detection limits

ATSDR Minimum Risk Level (MRLs)

***MRL(acute)-**No intermediate value available.

ERPG-Emergency Response Planning Guidelines.The first tier (e.g., ERPG-1) is a temporary, non-disabling effects threshold

AEGL-1 = Acute exposure guideline levels for mild effects

MAGLC= TLV/42

** Average (½ method detection limit): The arithmetic mean (average) listed uses one-half of the method detection limit (1/2 MDL) as the numerical value for non-detected compounds when computing the average of multiple sampling events. This method is standard practice to estimate averages with non-detected values.

Method Detection limit: The method detection limit is the lowest measurement the collection / analysis procedure can accurately quantify as a true measurement of the ambient air concentration.

*** Count: Total detections out of 15 sampling events (other samples were below detection limits)

ARCO Recycling Fire Samples-Upwind

Ambient Air Sampling Results-Volatile Organic Compounds(VOCs)

October 28, 2017- November 16, 2017

24 Hour Upwind Sampling Results

Compound list	Average (1/2mdl)**	Minimum	Maximum	Count***	Short-term Screening Values	Source
	ppb	ppb	ppb			
1,2,4-Trimethylbenzene	0.05	BDL	0.14	1	595	MAGLC
2,2,4-Trimethylpentane	0.11	BDL	0.25	1	7,143	MAGLC
4-Methyl-2-pentanone	0.05	BDL	0.10	1	476	MAGLC
Acetone	2.25	BDL	5.07	15	13,000	MRLs (intermed.)
Benzene	0.25	0.10	0.81	20	6	MRLs (intermed.)
Carbon tetrachloride	0.05	BDL	0.10	1	30	MRLs (intermed.)
Chloromethane	0.60	0.52	0.82	20	200	MRLs (intermed.)
Dichlorodifluoromethane	0.51	0.43	0.60	20	24,000	MAGLC
Ethanol	4.21	1.78	19.00	20	1,800,000	ERPG-1
Ethylbenzene	0.06	BDL	0.13	2	2000	MRLs (intermed.)
Hexane	0.17	BDL	0.36	15	1,190	MAGLC
Isopropyl alcohol	0.48	BDL	3.09	5	5000	MAGLC
Methyl methacrylate	0.05	BDL	0.10	1	17,000	AEGL-1
Methylene chloride	0.07	BDL	0.12	8	300	MRLs (intermed.)
n-Butane	1.66	0.56	3.87	20	18,000	MAGLC
n-Heptane	0.06	BDL	0.12	1	10,000	MAGLC
n-Pentane	0.63	0.23	1.39	20	14,286	MAGLC
o-Xylene	0.05	BDL	0.14	1	600	MRLs (intermed.)
Propylene	0.65	0.31	1.19	20	11,905	MAGLC
Styrene	0.05	BDL	0.13	1	5000	MRLs (acute)*
Toluene	0.28	0.13	0.72	20	2000	MRLs (acute)*
Total m&p-xylenes	0.11	BDL	0.32	1	600	MRLs (intermed.)
Trichlorofluoromethane	0.32	0.15	0.59	20	24,000	MAGLC

BDL= below detection limits

ATSDR Minimum Risk Level (MRLs)

***MRL (acute)-**No intermediate value available.

ERPG-Emergency Response Planning Guidelines.The first tier (e.g., ERPG-1) is a temporary, non-disabling effects

AEGL-1 = Acute exposure guideline levels for mild effects

MAGLC= TLV/42

** Average (½ method detection limit): The arithmetic mean (average) listed uses one-half of the method detection limit (1/2 MDL) as the numerical value for non-detected compounds when computing the average of multiple sampling events. This method is standard practice to estimate averages with non-detected values.

Method Detection limit: The method detection limit is the lowest measurement the collection / analysis procedure can accurately

*** Count: Total detections out of 20 sampling events (other samples were below detection limits)

ARCO Recycling Fire						
Ambient Air Sampling Results-Volatile Organic Compounds(VOCs)						
	October 28, 2017- November 16, 2017					
	24 Hour Downwind Sampling Results					
Compound list	**Average (1/2mdl)****	**Minimum**	**Maximum**	**Count******	**Short-term Screening Values**	**Source**
	ppb	**ppb**	**ppb**			
1,2,4-Trimethylbenzene	0.11	BDL	0.59	7	595	MAGLC
1,3,5-Trimethylbenzene	0.07	BDL	0.28	2	595	MAGLC
1,3-Butadiene	0.86	BDL	12.30	4	10,000	ERPG-1
1,4-Dioxane	0.11	BDL	0.20	1	200	MRLs (intermed.)
2-Butanone	0.90	BDL	5.50	5	200,000	AEGL-1
2-Hexanone	0.05	BDL	0.13	1	120	MAGLC
4-Ethyltoluene	0.08	BDL	0.37	3	NA	
Acetone	5.31	BDL	24.10	17	13,000	MRLs (intermed.)
Acrolein***	0.53	BDL	5.94	1	0.04	MRLs (intermed.)
Acrylonitrile	0.06	BDL	0.31	1	100	MRLs (acute)
Benzene	3.36	0.13	29.10	20	6	MRLs (intermed.)
Bromomethane	0.07	BDL	0.47	1	50	MRLs (intermed.)
Carbon tetrachloride	0.06	BDL	0.10	2	30	MRLs (intermed.)
Chlorobenzene	0.06	BDL	0.13	2	10,000	AEGL-1
Chloroethane	0.09	BDL	0.56	3	15,000	MRLs (acute)
Chloromethane	7.97	0.51	61.00	20	200	MRLs (intermed.)
Cumene	0.11	BDL	0.63	3	50,000	AEGL-1
Cyclohexane	0.05	BDL	0.11	1	2,400	MAGLC
Dichlorodifluoromethane	0.52	0.44	0.60	20	24,000	MAGLC
Ethanol	5.22	BDL	15.40	19	1,800,000	ERPG-1
Ethylbenzene	0.67	BDL	5.37	9	2000	MRLs (intermed.)
Hexane	0.37	BDL	1.90	17	1,190	MAGLC
Isopropyl alcohol	0.37	BDL	1.00	6	5000	MAGLC
Methyl methacrylate	0.13	BDL	1.44	3	17,000	AEGL-1
Methylene chloride	0.07	BDL	0.16	7	300	MRLs (intermed.)
Naphthalene	0.24	BDL	2.34	4	240	MAGLC
n-Butane	2.21	0.53	5.70	20	18,000	MAGLC
n-Heptane	0.18	BDL	1.17	7	10,000	MAGLC
n-Nonane	0.11	BDL	0.59	5	4,762	MAGLC
n-Pentane	1.38	0.20	6.14	19	14,286	MAGLC
n-Propylbenzene	0.07	BDL	0.32	2	NA	
o-Xylene	0.19	BDL	1.32	7	600	MRLs (intermed.)
Propylene	5.89	0.32	57.50	20	11,905	MAGLC
Styrene	0.72	BDL	5.70	9	5000	MRLs (acute)*
Tetrachloroethylene	0.06	BDL	0.22	1	6	MRLs (intermed.)
Tetrahydrofuran	0.35	BDL	2.09	5	1190	MAGLC
Toluene	1.63	0.12	11.80	20	2000	MRLs (acute)*
Total m&p-xylenes	0.43	BDL	3.14	7	600	MRLs (intermed.)
Trichlorofluoromethane	0.47	0.19	1.19	20	24,000	MAGLC
Vinyl acetate	0.39	BDL	5.13	3	10	MRLs (Intermed.)
BDL= below detection						
ATSDR Minimum Risk Level (MRLs)						
***MRL (acute)-**No intermediate value available.						
ERPG-Emergency						
AEGL-1 = Acute exposure guideline levels for mild effects						
MAGLC= TLV/42						
** Average (½ method detection limit): The arithmetic mean (average) listed uses one-half of the method detection limit (1/2 MDL) as the numerical value for non-detected compounds when computing the average of multiple sampling events. This method is standard						
Method Detection limit: The method detection limit is the lowest measurement the collection / analysis procedure can accurately quantify as a true measurement of the ambient air concentration.						
***Acrolein: Sample results for Acrolein are suspect. This compound can be created within the sample canister itself: U.S. EPA is refining the test method to correct for this problem.						
**** Count: Total detections out of 20 sampling events (other samples were below detection limits)						

ARCO Recycling, 1705 Noble Road
Ambient Air Sampling Results-Reduced Sulfur Compounds
January 25, 2017- December 4, 2017
24 Hour Downwind Sampling Results

Client Sample ID:		EPA 028473/SN 20101	EPA 027118/SN 11491	EPA 027747/SN 11496	EPA 028472/SN 20100 Canister	EPA 028472/SN 20100 Canister	EPA 027735/SN 11515	EPA027743/SN 11518	EPA 028203/SN 11500	EPA 028202/SN 11490	EPA028372/ SN20893	EPA 027733/SN1 1514	EPA 027743/SN1 1518
DAT Sample ID:		0117038-1	217004	217012	217022	217022	217030	0317007-1	317014	0317050-1	0417013-1	0517015-1	0517036-1
Date Analyzed:		01/25/17- 01/26/17	01/31/2017- 02/01/2017	02/07/2017- 02/08/2017	02/14/2017- 02/15/2017	02/14/2017- 02/15/2017	02/22/2017- 02/23/2017	03/02/2017- 03/03/2017	03/08/2017- 03/09/2017	03/29/2017- 03/30/2017	04/10/2017- 04/11/2017	5/8/2017- 5/9/17	5/18/2017- 5/19/2017
	CAS #	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Hydrogen sulfide	773-06-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbonyl sulfide	463-58-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl mercaptan	74-93-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl mercaptan	75-08-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl sulfide	75-17-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl mercaptan	75-66-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl mercaptan	107-03-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl mercaptan	109-79-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl disulfide	75-18-3	ND	ND	ND	0.2	0.187	ND	ND	ND	ND	ND	ND	ND

Client Sample ID:		EPA 028378/SN2 0912	EPA 028469/SN2 0085	EPA 027121/SN1 1407	EPA027731/ SN11492	EPA 011518	EPA 027116	EPA 028377	EPA 28205	EPA 027733	EPA 028374	EPA 017054	EPA11522 - Downwind H2S
DAT Sample ID:		0617014-1	0617019-1	0617027-1	0717001-1	0717025-1	0717031-01	0717037-01	0817003-01	0817012-1	0817018-1	0817033-1	0817042-1
Date Analyzed:		6/07/17- 6/08/17	6/12/2017- 6/13/2017	6/22/2017- 6/23/2017	7/03/2017- /04/2017	7/17/2017- /18/2017	7/20/2017- /21/2017	7/25/2017- 7/26/2017	7/31/2017- 8/01/2017	8/08/2017- 8/09/2017	8/14/2017- 8/15/2017	8/22/2017- 8/23/2017	8/28/2017- 8/29/2017
	CAS #	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Hydrogen sulfide	773-06-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbonyl sulfide	463-58-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl mercaptan	74-93-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl mercaptan	75-08-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl sulfide	75-17-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl mercaptan	75-66-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl mercaptan	107-03-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl mercaptan	109-79-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl disulfide	75-18-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Client Sample ID:		EPA 027129 Downwind H2S	EPA 028201 Downwind H2S	EPA 027115 Downwind H2S	EPA 027130 Downwind H2S	EPA 028382 Downwind H2S	EPA 028469 Downwind H2S	EPA 028373 Downwind H2S	EPA027735	EPA028378 - Downwind H2S	EPA 027123	EPA028473 - Downwind H2S	**Short-term Screening Values**	**Source**
DAT Sample ID:		0917005-1	0917018-1	0917030-1	0917038-1	1017008-1	1017019-1	1017030-1	1017038-1	1117003-1	1117012-1	1117020-1		
Date Analyzed:		9/05/2017- 9/06/2017	9/11/2017- 9/12/2017	9/19/2017- 9/20/2017	9/25/2017- 9/26/2017	10/03/2017- 10/04/2017	10/09/2017- 10/10/2017	10/16/2017- 10/17/2017	10/23/2017- 10/24/2017	10/31/2017- 11/01/2017	11/07/2017- 11/08/2017	11/14/2017- 11/15/2017		
	CAS #	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb		ppb
Hydrogen sulfide	773-06-4	ND	ND	ND	ND	ND	ND	5.09	ND	ND	ND	ND	70	
Carbonyl sulfide	463-58-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.000	AEGL 2
Methyl mercaptan	74-93-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.300	AEGL 2
Ethyl mercaptan	75-08-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000	AEGL 2
Dimethyl sulfide	75-17-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	500	
Carbon disulfide	75-15-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000	EPRG-1
tert-Butyl mercaptan	75-66-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
n-Propyl mercaptan	107-03-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
n-Butyl mercaptan	109-79-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Dimethyl disulfide	75-18-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	EPRG1

ARCO Recycling Asbestos Results — May 5, 2017-November 9, 2017

	PCM upwind	PCM downwind	0.8 um PCM filter	0.8 um PCM filter	East end Resident.	West end Resident.						
Laboratory Sample ID	1701676 -1	1701676 -2	1702819 -1	1702819 -2	1702819 -1	1702819 -2	1703014 -1	1703014 -2	1703160 -1	1703160-2	1703219 -1	1703219 -2
Client ID	CQ795964	CQ796442	Site #1 CQ796484	Site #2 CQ796334	Site #1 CQ796243	Site #2 CQ796122	· Site #1 CQ796036	Site #2 CQ796384	Site #1 CQ795984	Site #2 CQ796387	Site #1 (CQ796436)	Site #2 (CQ796025)
Date Collected	5/5/2017	5/5/2017	7/19/2017	7/19/2017	7/27/2017	7/27/2017	8/1/2017	8/1/2017	8/10/2017	8/10/2017	8/15/2017	8/15/2017
Fiber Concentration (f/cc)	<0.01	<0.01	0.011	0.008	0.008	0.009	0.008	<0.01	<0.01	<0.01	<0.01	<0.01

Sample Decription											
Laboratory Sample ID	1703344 -1	1703344 -2	1703487 -1	1703487 -2	1703545 -1	1703545 -2	1703706 -1	1703706 -2	1703823 -1	1703823 -2	1704090 -1
Client ID	Site #1 (CQ795929)	Site #2 (CQ796061)	Site #1 (CS334674)	Site #2 (CS334638)	Site #1 (CS334458)	Site #2 (CS334478)	Site #1 (CS334406)	Site #2 (CS334437)	Site #1 CS334393)	Site #2 (CS334374)	Site #1 (CQ795974)
Date Collected	8/23/2017	8/23/2017	8/31/2017	8/31/2017	9/5/2017	9/5/2017	9/13/2017	9/13/2017	9/21/2017	9/21/2017	10/4/2017
Fiber Concentration (f/cc)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.006	<0.01	<0.01	<0.01

Sample Decription											
Laboratory Sample ID	1704090 -2	1704193 -	1704193 -2	1704266 -1	1704266 -2	1704193 -	1704193 -2	1704537 -	1704537 -2	1704684 -1	1704684 -2
Client ID	Site #2 (CS334597)	Site #1 (CS334390)	Site #2 (CS334421	site#1	Site#2	Site #1 (CS334454)	Site #2 (CS334400)	Site #1 (CS334395)	Site #2 (CS334737)	Site #1 (CS33481)	Site #2 (CS334425)
Date Collected	10/4/2017	10/12/2017	10/12/2017	10/16/2017	10/16/2017	10/24/2017	10/24/2017	11/1/2017	11/1/2017	11/9/2017	11/9/2017
Fiber Concentration (f/cc)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ARCO Recycling Lead Results — July 18, 2017- November 15, 2017

1705 Noble Road, East Cleveland

Cleveland ARCO Project Metals Data -

units -- µg/m³

Parameters

- designated

Month/ Date	Arsenic	Beryllium	Cadmium	Chromium	Lead	Manganese	Nickel	Zinc
July								
18-Jul-17	**0.0014**	< 0.000285	**0.0001**	**0.001**	0.004	0.021	0.003	0.031
24-Jul-17	**0.0014**	< 0.000273	0.0004	0.003	0.029	0.059	0.004	0.063
30-Jul-17	**0.0014**	< 0.000271	0.0003	**0.001**	0.009	0.018	0.003	0.048
August								
5-Aug-17	**0.0014**	< 0.000272	**0.0001**	**0.001**	0.004	**0.007**	**0.001**	0.031
11-Aug-17	**0.0014**	< 0.000271	**0.0001**	**0.001**	0.010	0.019	**0.001**	0.048
17-Aug-17	**0.0014**	<0.00027	**0.0001**	**0.001**	0.019	0.036	0.011	0.070
23-Aug-17	**0.0014**	<0.000272	0.0003	0.003	0.016	0.053	**0.001**	0.065
29-Aug-17	**0.0014**	<0.000272	0.0005	0.004	0.031	0.076	0.005	0.082
September								
4-Sep-17	**0.0014**	<0.000272	0.0006	**0.001**	0.010	0.033	**0.001**	0.061
10-Sep-17	**0.0014**	< 0.000271	**0.0001**	**0.001**	**0.001**	**0.007**	**0.001**	**0.014**
16-Sep-17	0.0034	<0.000269	0.0003	0.007	0.010	0.017	0.013	0.052
22-Sep-17	**0.0014**	<0.000271	0.0004	0.004	0.030	0.067	0.004	0.077
28-Sep-17	**0.0014**	< 0.000271	**0.0001**	**0.001**	0.016	0.029	**0.001**	**0.014**
October								
4-Oct-17	**0.0014**	<0.00027	0.0004	0.003	0.019	0.058	0.004	0.072
10-Oct-17	**0.0013**	<0.00135	0.0005	**0.007**	0.011	0.041	**0.007**	0.087
16-Oct-17	**0.0014**	<0.000274	**0.0001**	**0.001**	0.022	0.033	**0.001**	0.038
22-Oct-17	**0.0013**	<0.000269	0.0007	**0.001**	0.012	0.025	**0.001**	0.056
28-Oct-17	**0.0014**	<0.000277	**0.0001**	**0.001**	0.012	0.024	**0.001**	0.039
November								
3-Nov-17	**0.0014**	<0.000272	**0.0001**	**0.001**	0.007	**0.006**	**0.001**	**0.014**
9-Nov-17	**0.0014**	<0.000276	0.0004	**0.001**	0.029	0.056	0.003	0.084
15-Nov-17	**0.0014**	<0.000274	0.0005	0.006	0.060	0.084	0.006	0.071
Average	0.0015	ND	0.0003	0.003	0.017	0.037	0.004	0.053
Screening Value	0.002	0.004	0.01	0.3	0.15	0.3	0.2	6000
Source	IRIS(chr.)*	IRIS(chr.)*	MRLs(chr.)*	MRLs(intmed.)	NAAQS	MRLs(chr.)*	MRLs(intmed.)	PAC-1
Count	1	0	12	7	20	18	10	18

IRIS/MRLs (chronic)*- Intermediate screening values not available
Bold values=1/2 detection limit
MRLs=ATSDR Minimum Risk Level
IRIS= U.S. EPA Integrated Risk Information System
NAAQS= National Ambient Air Quality Standard
PAC-1=DOE Protective Action level
Count -Total detections out of 21 sampling events (other samples were below detection limits)
Concentration estimated due to interference with the internal standard.

ARCO PM10 Air Quality Summary

DATE	Day	24- hour concentration µg/m³	High 1- hour value µg/m³	High hour
October/November				
10/26/2017	Thursday	11.2	28.4	13
10/27/2017	Friday	29.4	106.2	7
10/28/2017	Saturday	7.2	16.3	21
10/29/2017	Sunday	6.2	13.6	11
10/30/2017	Monday	9.9	45.4	9
10/31/2017	Tuesday	14.7	22.4	8
11/1/2017	Wednesday	11.3	28.6	8

Note: NAAQS for PM10 - 150 µg/m³ - 24 hour average

ARCO PM10 Air Quality Summary

DATE	Day	24- hour concentration µg/m³	High 1- hour value µg/m³	High hour
November				
11/2/2017	Thursday	14.9	21.4	18
11/3/2017	Friday	9.1	15.9	13
11/4/2017	Saturday	28.6	85.6	7
11/5/2017	Sunday	12	26.3	0
11/6/2017	Monday	7.1	13	2
11/7/2017	Tuesday	17.4	48.5	13
11/8/2017	Wednesday	23.1	78.4	8

Note: NAAQS for PM10 - 150 µg/m³ - 24 hour average