

# Apex Labs

FINAL  
ARC FCE DUST  
INCL HEX CHROME

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Monday, August 1, 2016

Bruce Schacht  
Columbia Steel Casting Co., Inc.  
PO Box 83095  
Portland, OR 97283

RE: ARC Furnace Dust / [none]

Enclosed are the results of analyses for work order A6E0664, which was received by the laboratory on 5/23/2016 at 12:50:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [DAuvil@apex-labs.com](mailto:DAuvil@apex-labs.com), or by phone at 503-718-2323.

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia Steel Casting Co., Inc.  
 PO Box 83095  
 Portland, OR 97283

Project: **ARC Furnace Dust**  
 Project Number: [none]  
 Project Manager: Bruce Schacht

Reported:  
 08/01/16 16:33

## ANALYTICAL REPORT FOR SAMPLES

### SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P1	A6E0664-01	Solid	05/11/16 10:00	05/23/16 12:50
P2	A6E0664-02	Solid	05/11/16 10:00	05/23/16 12:50
P3	A6E0664-03	Solid	05/11/16 10:00	05/23/16 12:50
N1	A6E0664-04	Solid	05/11/16 11:00	05/23/16 12:50
N2	A6E0664-05	Solid	05/11/16 11:00	05/23/16 12:50
N3	A6E0664-06	Solid	05/11/16 11:00	05/23/16 12:50
Composite P1, P2 and P3	A6E0664-07	Solid	05/11/16 10:00	05/23/16 12:50

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Project: **ARC Furnace Dust**  
 Project Number: [none]  
 Project Manager: Bruce Schacht

Reported:  
 08/01/16 16:33

## ANALYTICAL SAMPLE RESULTS

### Total Hexavalent Chromium by EPA 7196A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>P1 (A6E0664-01)</b>			<b>Matrix: Solid</b>		<b>Batch: 6060212</b>			
Hexavalent Chromium	1320	---	224	mg/kg	100	06/09/16 10:21	EPA 7196A	
<b>P2 (A6E0664-02)</b>			<b>Matrix: Solid</b>		<b>Batch: 6060212</b>			
Hexavalent Chromium	1480	---	112	mg/kg	10	06/09/16 10:21	EPA 7196A	
<b>P3 (A6E0664-03)</b>			<b>Matrix: Solid</b>		<b>Batch: 6060212</b>			
Hexavalent Chromium	1600	---	112	mg/kg	10	06/09/16 10:21	EPA 7196A	
<b>N1 (A6E0664-04)</b>			<b>Matrix: Solid</b>		<b>Batch: 6060212</b>			
Hexavalent Chromium	11.5	---	11.2	mg/kg	1	06/09/16 10:21	EPA 7196A	
<b>N2 (A6E0664-05)</b>			<b>Matrix: Solid</b>		<b>Batch: 6060212</b>			
Hexavalent Chromium	ND	---	2.22	mg/kg	1	06/09/16 10:21	EPA 7196A	
<b>N3 (A6E0664-06)</b>			<b>Matrix: Solid</b>		<b>Batch: 6060212</b>			
Hexavalent Chromium	2.59	---	2.23	mg/kg	1	06/09/16 10:21	EPA 7196A	

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 Portland, OR 97283

Project: **ARC Furnace Dust**  
 Project Number: [none]  
 Project Manager: Bruce Schacht

Reported:  
 08/01/16 16:33

## ANALYTICAL SAMPLE RESULTS

### Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>N1 (A6E0664-04) Matrix: Solid</b>								
Batch: 6060627								
Barium	363	---	1.07	mg/kg	10	06/22/16 12:22	EPA 6020A	
Cadmium	11.7	---	0.214	"	"	"	"	
Mercury	0.636	---	0.0855	"	"	"	"	H-06
Silver	16.0	---	0.214	"	"	"	"	
Thallium	2.70	---	0.214	"	"	"	"	
<b>N1 (A6E0664-04RE1) Matrix: Solid</b>								
Batch: 6060627								
Arsenic	53.7	---	5.34	mg/kg	50	06/22/16 15:02	EPA 6020A	
Chromium	1360	---	5.34	"	"	"	"	
Copper	575	---	5.34	"	"	"	"	
Lead	1270	---	5.34	"	"	"	"	
Manganese	374000	---	2140	"	5000	06/22/16 16:48	"	
Nickel	350	---	5.34	"	50	06/22/16 15:02	"	
Selenium	2220	---	534	"	5000	06/22/16 16:48	"	
Zinc	6740	---	2140	"	"	"	"	
<b>N2 (A6E0664-05) Matrix: Solid</b>								
Batch: 6060627								
Barium	316	---	1.01	mg/kg	10	06/22/16 12:25	EPA 6020A	
Cadmium	15.2	---	0.203	"	"	"	"	
Silver	15.2	---	0.203	"	"	"	"	
Thallium	3.11	---	0.203	"	"	"	"	
<b>N2 (A6E0664-05RE1) Matrix: Solid</b>								
Batch: 6060627								
Arsenic	57.3	---	5.07	mg/kg	50	06/22/16 15:26	EPA 6020A	
Chromium	1470	---	5.07	"	"	"	"	
Copper	569	---	5.07	"	"	"	"	
Lead	1600	---	5.07	"	"	"	"	
Manganese	347000	---	2030	"	5000	06/22/16 16:51	"	
Mercury	0.739	---	0.406	"	50	06/22/16 15:26	"	H-06
Nickel	356	---	5.07	"	"	"	"	
Selenium	2350	---	507	"	5000	06/22/16 16:51	"	
Zinc	7490	---	2030	"	"	"	"	
<b>N3 (A6E0664-06) Matrix: Solid</b>								
Batch: 6060627								

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 Portland, OR 97283

Project: **ARC Furnace Dust**  
 Project Number: [none]  
 Project Manager: Bruce Schacht

Reported:  
 08/01/16 16:33

## ANALYTICAL SAMPLE RESULTS

### Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>N3 (A6E0664-06)</b>			<b>Matrix: Solid</b>					
Arsenic	57.0	---	4.92	mg/kg	50	06/22/16 15:29	EPA 6020A	
Barium	336	---	4.92	"	"	"	"	
Cadmium	15.8	---	0.984	"	"	"	"	
Chromium	1470	---	4.92	"	"	"	"	
Copper	573	---	4.92	"	"	"	"	
Lead	1580	---	4.92	"	"	"	"	
Mercury	0.845	---	0.394	"	"	"	"	H-06
Nickel	359	---	4.92	"	"	"	"	
Silver	16.3	---	0.984	"	"	"	"	
Thallium	3.20	---	0.984	"	"	"	"	
<b>N3 (A6E0664-06RE1)</b>			<b>Matrix: Solid</b>					
Batch: 6060627								
Manganese	372000	---	1970	mg/kg	5000	06/22/16 16:54	EPA 6020A	
Selenium	2410	---	492	"	"	"	"	
Zinc	7550	---	1970	"	"	"	"	
<b>Composite P1, P2 and P3 (A6E0664-07)</b>			<b>Matrix: Solid</b>					
Batch: 6060627								
Arsenic	49.1	---	5.49	mg/kg	50	06/22/16 15:32	EPA 6020A	
Barium	848	---	5.49	"	"	"	"	
Cadmium	11.8	---	1.10	"	"	"	"	
Copper	830	---	5.49	"	"	"	"	
Lead	2040	---	5.49	"	"	"	"	
Mercury	0.585	---	0.440	"	"	"	"	A-03, H-06
Nickel	2620	---	5.49	"	"	"	"	
Selenium	76.9	---	5.49	"	"	"	"	
Silver	36.6	---	1.10	"	"	"	"	
Thallium	2.75	---	1.10	"	"	"	"	
<b>Composite P1, P2 and P3 (A6E0664-07RE1)</b>			<b>Matrix: Solid</b>					
Batch: 6060627								
Chromium	14000	---	549	mg/kg	5000	06/22/16 16:56	EPA 6020A	
Manganese	105000	---	2200	"	"	"	"	
Zinc	11800	---	2200	"	"	"	"	

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Columbia Steel Casting Co., Inc. PO Box 83095 Portland, OR 97283	Project: ARC Furnace Dust Project Number: [none] Project Manager: Bruce Schacht	Reported: 08/01/16 16:33
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## ANALYTICAL SAMPLE RESULTS

### TCLP Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>P1 (A6E0664-01)</b>			<b>Matrix: Solid</b>					
Batch: 6060100								
Arsenic	ND	---	0.100	mg/L	5	06/06/16 11:52	1311/6020A	
Barium	ND	---	0.500	"	"	"	"	
Cadmium	ND	---	0.0500	"	"	"	"	
<b>Chromium</b>	<b>42.7</b>	---	0.100	"	"	"	"	
Copper	ND	---	0.250	"	"	"	"	
Lead	ND	---	0.0500	"	"	"	"	
Mercury	ND	---	0.00400	"	"	"	"	
<b>Nickel</b>	<b>0.330</b>	---	0.100	"	"	"	"	
<b>Selenium</b>	<b>0.138</b>	---	0.100	"	"	"	"	
Silver	ND	---	0.0500	"	"	"	"	
Thallium	ND	---	0.0500	"	"	"	"	
Zinc	ND	---	0.250	"	"	"	"	
<b>P1 (A6E0664-01RE1)</b>			<b>Matrix: Solid</b>					
Batch: 6060100								
<b>Manganese</b>	<b>165</b>	---	0.500	mg/L	50	06/07/16 10:15	1311/6020A	
<b>P2 (A6E0664-02)</b>			<b>Matrix: Solid</b>					
Batch: 6060100								
Arsenic	ND	---	0.100	mg/L	5	06/06/16 12:06	1311/6020A	TCLPa
Barium	ND	---	0.500	"	"	"	"	TCLPa
Cadmium	ND	---	0.0500	"	"	"	"	TCLPa
<b>Chromium</b>	<b>42.3</b>	---	0.100	"	"	"	"	TCLPa
Copper	ND	---	0.250	"	"	"	"	TCLPa
Lead	ND	---	0.0500	"	"	"	"	TCLPa
Mercury	ND	---	0.00400	"	"	"	"	TCLPa
<b>Nickel</b>	<b>0.298</b>	---	0.100	"	"	"	"	TCLPa
Silver	ND	---	0.0500	"	"	"	"	TCLPa
Thallium	ND	---	0.0500	"	"	"	"	TCLPa
Zinc	ND	---	0.250	"	"	"	"	TCLPa
<b>P2 (A6E0664-02RE1)</b>			<b>Matrix: Solid</b>					
Batch: 6060100								
<b>Manganese</b>	<b>146</b>	---	0.500	mg/L	50	06/07/16 10:18	1311/6020A	TCLPa
<b>Selenium</b>	<b>0.190</b>	---	0.100	"	5	06/07/16 12:50	"	TCLPa
<b>P3 (A6E0664-03)</b>			<b>Matrix: Solid</b>					
Batch: 6060100								

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## ANALYTICAL SAMPLE RESULTS

### TCLP Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>P3 (A6E0664-03)</b>			<b>Matrix: Solid</b>					
Arsenic	ND	---	0.100	mg/L	5	06/06/16 12:09	1311/6020A	TCLPa
Barium	ND	---	0.500	"	"	"	"	TCLPa
Cadmium	ND	---	0.0500	"	"	"	"	TCLPa
<b>Chromium</b>	<b>49.7</b>	---	0.100	"	"	"	"	TCLPa
Copper	ND	---	0.250	"	"	"	"	TCLPa
Lead	ND	---	0.0500	"	"	"	"	TCLPa
Mercury	ND	---	0.00400	"	"	"	"	TCLPa
<b>Nickel</b>	<b>0.134</b>	---	0.100	"	"	"	"	TCLPa
Silver	ND	---	0.0500	"	"	"	"	TCLPa
Thallium	ND	---	0.0500	"	"	"	"	TCLPa
Zinc	ND	---	0.250	"	"	"	"	TCLPa
<b>P3 (A6E0664-03RE1)</b>			<b>Matrix: Solid</b>					
Batch: 6060100								
<b>Manganese</b>	<b>74.7</b>	---	0.500	mg/L	50	06/07/16 10:29	1311/6020A	TCLPa
<b>Selenium</b>	<b>0.168</b>	---	0.100	"	5	06/07/16 12:53	"	TCLPa
<b>N1 (A6E0664-04)</b>			<b>Matrix: Solid</b>					
Batch: 6060100								
Arsenic	ND	---	0.100	mg/L	5	06/06/16 12:12	1311/6020A	TCLPa
Barium	ND	---	0.500	"	"	"	"	TCLPa
<b>Cadmium</b>	<b>0.0550</b>	---	0.0500	"	"	"	"	TCLPa
Chromium	ND	---	0.100	"	"	"	"	TCLPa
Copper	ND	---	0.250	"	"	"	"	TCLPa
Lead	ND	---	0.0500	"	"	"	"	TCLPa
Mercury	ND	---	0.00400	"	"	"	"	TCLPa
<b>Nickel</b>	<b>0.630</b>	---	0.100	"	"	"	"	TCLPa
Silver	ND	---	0.0500	"	"	"	"	TCLPa
Thallium	ND	---	0.0500	"	"	"	"	TCLPa
<b>Zinc</b>	<b>0.418</b>	---	0.250	"	"	"	"	TCLPa
<b>N1 (A6E0664-04RE1)</b>			<b>Matrix: Solid</b>					
Batch: 6060100								
<b>Manganese</b>	<b>2440</b>	---	5.00	mg/L	500	06/07/16 10:32	1311/6020A	TCLPa
<b>Selenium</b>	<b>5.07</b>	---	0.200	"	10	06/07/16 10:44	"	TCLPa
<b>N2 (A6E0664-05)</b>			<b>Matrix: Solid</b>					
Batch: 6060100								
Arsenic	ND	---	0.100	mg/L	5	06/06/16 12:18	1311/6020A	

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 Project Number: [none]  
 Project Manager: Bruce Schacht

Reported:  
 08/01/16 16:33

## ANALYTICAL SAMPLE RESULTS

### TCLP Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>N2 (A6E0664-05) Matrix: Solid</b>								
Barium	ND	---	0.500	mg/L	5	"	1311/6020A	
<b>Cadmium</b>	<b>0.0625</b>	---	0.0500	"	"	"	"	
Chromium	ND	---	0.100	"	"	"	"	
Copper	ND	---	0.250	"	"	"	"	
Lead	ND	---	0.0500	"	"	"	"	
Mercury	ND	---	0.00400	"	"	"	"	
<b>Nickel</b>	<b>0.669</b>	---	0.100	"	"	"	"	
Silver	ND	---	0.0500	"	"	"	"	
Thallium	ND	---	0.0500	"	"	"	"	
<b>Zinc</b>	<b>0.604</b>	---	0.250	"	"	"	"	
<b>N2 (A6E0664-05RE1) Matrix: Solid</b>								
Batch: 6060100								
<b>Manganese</b>	<b>2350</b>	---	5.00	mg/L	500	06/07/16 10:38	1311/6020A	
<b>Selenium</b>	<b>7.10</b>	---	0.200	"	10	06/07/16 10:49	"	
<b>N3 (A6E0664-06) Matrix: Solid</b>								
Batch: 6060100								
Arsenic	ND	---	0.100	mg/L	5	06/06/16 12:21	1311/6020A	
Barium	ND	---	0.500	"	"	"	"	
<b>Cadmium</b>	<b>0.0645</b>	---	0.0500	"	"	"	"	
Chromium	ND	---	0.100	"	"	"	"	
Copper	ND	---	0.250	"	"	"	"	
Lead	ND	---	0.0500	"	"	"	"	
Mercury	ND	---	0.00400	"	"	"	"	
<b>Nickel</b>	<b>0.666</b>	---	0.100	"	"	"	"	
Silver	ND	---	0.0500	"	"	"	"	
Thallium	ND	---	0.0500	"	"	"	"	
<b>Zinc</b>	<b>0.566</b>	---	0.250	"	"	"	"	
<b>N3 (A6E0664-06RE1) Matrix: Solid</b>								
Batch: 6060100								
<b>Manganese</b>	<b>2400</b>	---	5.00	mg/L	500	06/07/16 10:41	1311/6020A	
<b>Selenium</b>	<b>6.96</b>	---	0.200	"	10	06/07/16 10:52	"	

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## QUALITY CONTROL (QC) SAMPLE RESULTS

### Total Hexavalent Chromium by EPA 7196A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6060212 - Method Prep: Non-Aq</b>						<b>Solid</b>						
<b>Blank (6060212-BLK1)</b>						Prepared: 06/08/16 07:57 Analyzed: 06/09/16 10:21						
EPA 7196A												
Hexavalent Chromium	ND	---	2.25	mg/kg	1	---	---	---	---	---	---	
<b>LCS (6060212-BS1)</b>						Prepared: 06/08/16 07:57 Analyzed: 06/09/16 10:21						
EPA 7196A												
Hexavalent Chromium	16.6	---	2.25	mg/kg	1	20.0	---	83	80-120%	---	---	
<b>Duplicate (6060212-DUP1)</b>						Prepared: 06/08/16 07:57 Analyzed: 06/09/16 10:21						
QC Source Sample: N3 (A6E0664-06)												
EPA 7196A												
Hexavalent Chromium	ND	---	2.25	mg/kg	1	---	2.59	---	---	***	20%	Q-04
<b>Matrix Spike (6060212-MS1)</b>						Prepared: 06/08/16 07:57 Analyzed: 06/09/16 10:21						
QC Source Sample: N3 (A6E0664-06)												
EPA 7196A												
Hexavalent Chromium	8.37	---	2.22	mg/kg	1	39.5	2.59	15	75-125%	---	---	Cr6-02, Q-01
<b>Post Spike (6060212-PS1)</b>						Prepared: 06/08/16 07:57 Analyzed: 06/09/16 10:21						
QC Source Sample: N3 (A6E0664-06)												
EPA 7196A												
Hexavalent Chromium	0.395	---		mg/L	1	0.398	0.0588	84	85-115%	---	---	PS-02
<b>Post Spike (6060212-PS2)</b>						Prepared: 06/08/16 07:57 Analyzed: 06/09/16 10:21						
QC Source Sample: N3 (A6E0664-06)												
EPA 7196A												
Hexavalent Chromium	3.82	---		mg/L	10	3.98	0.0588	94	85-115%	---	---	

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Project: **ARC Furnace Dust**  
 Project Number: [none]  
 Project Manager: Bruce Schacht

Reported:  
 08/01/16 16:33

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 6060627 - EPA 3051A

Solid

##### Blank (6060627-BLK1)

Prepared: 06/22/16 08:28 Analyzed: 06/22/16 12:04

##### EPA 6020A

Arsenic	ND	---	1.00	mg/kg	10	---	---	---	---	---	---	---
Barium	ND	---	1.00	"	"	---	---	---	---	---	---	---
Cadmium	ND	---	0.200	"	"	---	---	---	---	---	---	---
Chromium	ND	---	1.00	"	"	---	---	---	---	---	---	---
Copper	ND	---	1.00	"	"	---	---	---	---	---	---	---
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	---
Manganese	ND	---	4.00	"	"	---	---	---	---	---	---	---
Mercury	ND	---	0.0800	"	"	---	---	---	---	---	---	---
Nickel	ND	---	1.00	"	"	---	---	---	---	---	---	---
Selenium	ND	---	1.00	"	"	---	---	---	---	---	---	---
Silver	ND	---	0.200	"	"	---	---	---	---	---	---	---
Thallium	ND	---	0.200	"	"	---	---	---	---	---	---	---
Zinc	ND	---	4.00	"	"	---	---	---	---	---	---	---

##### LCS (6060627-BS1)

Prepared: 06/22/16 08:28 Analyzed: 06/22/16 12:16

##### EPA 6020A

Arsenic	50.7	---	1.00	mg/kg	10	50.0	---	101	80-120%	---	---	---
Barium	49.8	---	1.00	"	"	"	---	100	"	---	---	---
Cadmium	51.5	---	0.200	"	"	"	---	103	"	---	---	---
Chromium	52.0	---	1.00	"	"	"	---	104	"	---	---	---
Copper	52.8	---	1.00	"	"	"	---	106	"	---	---	---
Lead	53.6	---	1.00	"	"	"	---	107	"	---	---	---
Manganese	51.6	---	4.00	"	"	"	---	103	"	---	---	---
Mercury	1.06	---	0.0800	"	"	1.00	---	106	"	---	---	---
Nickel	51.3	---	1.00	"	"	50.0	---	103	"	---	---	---
Selenium	25.9	---	1.00	"	"	25.0	---	104	"	---	---	---
Silver	24.8	---	0.200	"	"	"	---	99	"	---	---	---
Thallium	25.4	---	0.200	"	"	"	---	102	"	---	---	---
Zinc	54.2	---	4.00	"	"	50.0	---	108	"	---	---	---

##### Duplicate (6060627-DUP1)

Prepared: 06/22/16 08:28 Analyzed: 06/22/16 15:34

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia Steel Casting Co., Inc. PO Box 83095 Portland, OR 97283	Project: <b>ARC Furnace Dust</b> Project Number: [none] Project Manager: Bruce Schacht	Reported: 08/01/16 16:33
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## QUALITY CONTROL (QC) SAMPLE RESULTS

### Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6060627 - EPA 3051A</b>						<b>Solid</b>						
<b>Duplicate (6060627-DUP1)</b>						Prepared: 06/22/16 08:28 Analyzed: 06/22/16 15:34						
QC Source Sample: Composite P1, P2 and P3 (A6E0664-07)												
EPA 6020A												
Arsenic	47.0	---	5.36	mg/kg	50	---	49.1	---	---	4	40%	
Barium	948	---	5.36	"	"	---	848	---	---	11	40%	
Cadmium	10.3	---	1.07	"	"	---	11.8	---	---	14	40%	
Copper	772	---	5.36	"	"	---	830	---	---	7	40%	
Lead	1890	---	5.36	"	"	---	2040	---	---	7	40%	
Mercury	0.605	---	0.429	"	"	---	0.585	---	---	3	40%	
Nickel	2420	---	5.36	"	"	---	2620	---	---	8	40%	
Selenium	70.7	---	5.36	"	"	---	76.9	---	---	8	40%	
Silver	33.8	---	1.07	"	"	---	36.6	---	---	8	40%	
Thallium	2.74	---	1.07	"	"	---	2.75	---	---	0.4	40%	

<b>Duplicate (6060627-DUP2)</b>						Prepared: 06/22/16 08:28 Analyzed: 06/22/16 16:59						
QC Source Sample: Composite P1, P2 and P3 (A6E0664-07RE1)												
EPA 6020A												
Chromium	12800	---	536	mg/kg	5000	---	14000	---	---	9	40%	Q-16
Manganese	101000	---	2150	"	"	---	105000	---	---	4	40%	Q-16
Zinc	10500	---	2150	"	"	---	11800	---	---	11	40%	Q-16

<b>Matrix Spike (6060627-MS1)</b>						Prepared: 06/22/16 08:28 Analyzed: 06/22/16 15:37						
QC Source Sample: Composite P1, P2 and P3 (A6E0664-07)												
EPA 6020A												
Arsenic	95.6	---	5.40	mg/kg	50	54.0	49.1	86	75-125%	---	---	
Barium	862	---	5.40	"	"	"	848	27	"	---	---	Q-03
Cadmium	69.4	---	1.08	"	"	"	11.8	107	"	---	---	
Copper	842	---	5.40	"	"	"	830	22	"	---	---	Q-03
Lead	2070	---	5.40	"	"	"	2040	62	"	---	---	Q-03
Mercury	2.04	---	0.432	"	"	1.08	0.585	134	"	---	---	A-03, Q-01
Nickel	2390	---	5.40	"	"	54.0	2620	-415	"	---	---	Q-03
Selenium	82.6	---	5.40	"	"	27.0	76.9	21	"	---	---	Q-03
Silver	64.8	---	1.08	"	"	"	36.6	105	"	---	---	

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia Steel Casting Co., Inc. PO Box 83095 Portland, OR 97283	Project: <b>ARC Furnace Dust</b> Project Number: [none] Project Manager: Bruce Schacht	Reported: 08/01/16 16:33
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## QUALITY CONTROL (QC) SAMPLE RESULTS

### Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6060627 - EPA 3051A</b>						<b>Solid</b>						
<b>Matrix Spike (6060627-MS1)</b>						Prepared: 06/22/16 08:28			Analyzed: 06/22/16 15:37			
QC Source Sample: Composite P1, P2 and P3 (A6E0664-07)												
Thallium	31.3	---	1.08	mg/kg	"	"	2.75	106	"	---	---	
<b>Matrix Spike (6060627-MS2)</b>						Prepared: 06/22/16 08:28			Analyzed: 06/22/16 17:02			
QC Source Sample: Composite P1, P2 and P3 (A6E0664-07RE1)												
EPA 6020A												
Chromium	13500	---	540	mg/kg	5000	54.0	14000	-979	75-125%	---	---	Q-03, Q-16
Manganese	105000	---	2160	"	"	"	105000	-974	"	---	---	Q-03, Q-16
Zinc	11600	---	2160	"	"	"	11800	-338	"	---	---	Q-03, Q-16
<b>Post Spike (6060627-PS1)</b>						Prepared: 06/22/16 08:28			Analyzed: 06/22/16 17:05			
QC Source Sample: Composite P1, P2 and P3 (A6E0664-07)												
EPA 6020A												
Mercury	100000	---		ng/L	50	99000	5270	96	80-120%	---		



<b>Columbia Steel Casting Co., Inc.</b>	Project: <b>ARC Furnace Dust</b>	
PO Box 83095	Project Number: [none]	<b>Reported:</b>
Portland, OR 97283	Project Manager: Bruce Schacht	08/01/16 16:33

## QUALITY CONTROL (QC) SAMPLE RESULTS

### TCLP Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6060100 - EPA 1311/3015</b>						<b>Solid</b>						
<b>Blank (6060100-BLK1)</b>						Prepared: 06/03/16 10:41 Analyzed: 06/06/16 11:46						
<b>1311/6020A</b>												
Arsenic	ND	---	0.100	mg/L	5	---	---	---	---	---	---	TCLP
Barium	ND	---	0.500	"	"	---	---	---	---	---	---	TCLP
Cadmium	ND	---	0.0500	"	"	---	---	---	---	---	---	TCLP
Chromium	ND	---	0.100	"	"	---	---	---	---	---	---	TCLP
Copper	ND	---	0.250	"	"	---	---	---	---	---	---	TCLP
Lead	ND	---	0.0500	"	"	---	---	---	---	---	---	TCLP
Manganese	ND	---	0.0500	"	"	---	---	---	---	---	---	TCLP
Mercury	ND	---	0.00400	"	"	---	---	---	---	---	---	TCLP
Nickel	ND	---	0.100	"	"	---	---	---	---	---	---	TCLP
Silver	ND	---	0.0500	"	"	---	---	---	---	---	---	TCLP
Thallium	ND	---	0.0500	"	"	---	---	---	---	---	---	TCLP
<b>Blank (6060100-BLK2)</b>						Prepared: 06/03/16 10:41 Analyzed: 06/07/16 10:12						
<b>1311/6020A</b>												
Selenium	ND	---	0.100	mg/L	5	---	---	---	---	---	---	Q-16, TCLP
Zinc	ND	---	0.250	"	"	---	---	---	---	---	---	Q-16, TCLP
<b>LCS (6060100-BS1)</b>						Prepared: 06/03/16 10:41 Analyzed: 06/06/16 11:49						
<b>1311/6020A</b>												
Arsenic	2.51	---	0.100	mg/L	5	2.51	---	100	80-120%	---	---	TCLP
Barium	2.63	---	0.500	"	"	"	---	105	"	---	---	TCLP
Cadmium	2.50	---	0.0500	"	"	"	---	100	"	---	---	TCLP
Chromium	2.53	---	0.100	"	"	"	---	101	"	---	---	TCLP
Copper	2.46	---	0.250	"	"	"	---	98	"	---	---	TCLP
Lead	2.66	---	0.0500	"	"	"	---	106	"	---	---	TCLP
Manganese	2.55	---	0.0500	"	"	"	---	102	"	---	---	TCLP
Mercury	0.0536	---	0.00400	"	"	0.0500	---	107	"	---	---	TCLP
Nickel	2.54	---	0.100	"	"	2.51	---	101	"	---	---	TCLP
Selenium	1.21	---	0.100	"	"	1.25	---	97	"	---	---	TCLP
Silver	1.27	---	0.0500	"	"	"	---	101	"	---	---	TCLP
Thallium	1.29	---	0.0500	"	"	"	---	103	"	---	---	TCLP

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia Steel Casting Co., Inc. PO Box 83095 Portland, OR 97283	Project: ARC Furnace Dust Project Number: [none] Project Manager: Bruce Schacht	Reported: 08/01/16 16:33
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## QUALITY CONTROL (QC) SAMPLE RESULTS

### TCLP Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 6060100 - EPA 1311/3015</b>						<b>Solid</b>						
<b>LCS (6060100-BS1)</b>						Prepared: 06/03/16 10:41			Analyzed: 06/06/16 11:49			
Zinc	2.80	---	0.250	mg/L	"	2.51	---	112	"	---	---	TCLP
<b>Matrix Spike (6060100-MS1)</b>						Prepared: 06/03/16 10:41			Analyzed: 06/06/16 12:15			
<b>QC Source Sample: N1 (A6E0664-04)</b>												
<b>1311/6020A</b>												
Arsenic	2.47	---	0.100	mg/L	5	2.51	ND	99	50-150%	---	---	
Barium	2.70	---	0.500	"	"	"	ND	108	"	---	---	
Cadmium	2.68	---	0.0500	"	"	"	0.0550	105	"	---	---	
Chromium	2.46	---	0.100	"	"	"	ND	98	"	---	---	
Copper	2.37	---	0.250	"	"	"	ND	95	"	---	---	
Lead	2.67	---	0.0500	"	"	"	ND	107	"	---	---	
Mercury	0.0568	---	0.00400	"	"	0.0500	ND	114	"	---	---	
Nickel	3.05	---	0.100	"	"	2.51	0.630	97	"	---	---	
Silver	1.28	---	0.0500	"	"	1.25	ND	102	"	---	---	
Thallium	1.33	---	0.0500	"	"	"	ND	106	"	---	---	Q-41
Zinc	2.86	---	0.250	"	"	2.51	0.418	98	"	---	---	
<b>Matrix Spike (6060100-MS2)</b>						Prepared: 06/03/16 10:41			Analyzed: 06/07/16 10:35			
<b>QC Source Sample: N1 (A6E0664-04RE1)</b>												
<b>1311/6020A</b>												
Manganese	2500	---	5.00	mg/L	500	2.51	2440	2410	50-150%	---	---	Q-03, Q-16
<b>Matrix Spike (6060100-MS3)</b>						Prepared: 06/03/16 10:41			Analyzed: 06/07/16 10:46			
<b>QC Source Sample: N1 (A6E0664-04RE1)</b>												
<b>1311/6020A</b>												
Selenium	6.32	---	0.200	mg/L	10	1.25	5.07	100	50-150%	---	---	Q-16

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Darrell Auvil For Darwin Thomas, Business Development Director

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Columbia Steel Casting Co., Inc.  
PO Box 83095  
Portland, OR 97283

Project: **ARC Furnace Dust**  
Project Number: [none]  
Project Manager: Bruce Schacht

Reported:  
08/01/16 16:33

## SAMPLE PREPARATION INFORMATION

### Total Hexavalent Chromium by EPA 7196A

**Prep: Method Prep: Non-Aq**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 6060212</b>							
A6E0664-01	Solid	EPA 7196A	05/11/16 10:00	06/08/16 07:57	2.5126g/111mL	2.5g/111mL	1.00
A6E0664-02	Solid	EPA 7196A	05/11/16 10:00	06/08/16 07:57	0.5005g/111mL	2.5g/111mL	5.00
A6E0664-03	Solid	EPA 7196A	05/11/16 10:00	06/08/16 07:57	0.5013g/111mL	2.5g/111mL	4.99
A6E0664-04	Solid	EPA 7196A	05/11/16 11:00	06/08/16 07:57	0.5027g/111mL	2.5g/111mL	4.97
A6E0664-05	Solid	EPA 7196A	05/11/16 11:00	06/08/16 07:57	2.5344g/111mL	2.5g/111mL	0.99
A6E0664-06	Solid	EPA 7196A	05/11/16 11:00	06/08/16 07:57	2.5254g/111mL	2.5g/111mL	0.99

### Total Metals by EPA 6020 (ICPMS)

**Prep: EPA 3051A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 6060627</b>							
A6E0664-04	Solid	EPA 6020A	05/11/16 11:00	06/22/16 08:28	0.468g/50mL	0.5g/50mL	1.07
A6E0664-04RE1	Solid	EPA 6020A	05/11/16 11:00	06/22/16 08:28	0.468g/50mL	0.5g/50mL	1.07
A6E0664-05	Solid	EPA 6020A	05/11/16 11:00	06/22/16 08:28	0.493g/50mL	0.5g/50mL	1.01
A6E0664-05RE1	Solid	EPA 6020A	05/11/16 11:00	06/22/16 08:28	0.493g/50mL	0.5g/50mL	1.01
A6E0664-06	Solid	EPA 6020A	05/11/16 11:00	06/22/16 08:28	0.508g/50mL	0.5g/50mL	0.98
A6E0664-06RE1	Solid	EPA 6020A	05/11/16 11:00	06/22/16 08:28	0.508g/50mL	0.5g/50mL	0.98
A6E0664-07	Solid	EPA 6020A	05/11/16 10:00	06/22/16 08:28	0.455g/50mL	0.5g/50mL	1.10
A6E0664-07RE1	Solid	EPA 6020A	05/11/16 10:00	06/22/16 08:28	0.455g/50mL	0.5g/50mL	1.10

### TCLP Metals by EPA 6020 (ICPMS)

**Prep: EPA 1311/3015**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 6060100</b>							
A6E0664-01	Solid	1311/6020A	05/11/16 10:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00
A6E0664-01RE1	Solid	1311/6020A	05/11/16 10:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00
A6E0664-02	Solid	1311/6020A	05/11/16 10:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00
A6E0664-02RE1	Solid	1311/6020A	05/11/16 10:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00
A6E0664-03	Solid	1311/6020A	05/11/16 10:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00
A6E0664-03RE1	Solid	1311/6020A	05/11/16 10:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00
A6E0664-04	Solid	1311/6020A	05/11/16 11:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00
A6E0664-04RE1	Solid	1311/6020A	05/11/16 11:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00
A6E0664-05	Solid	1311/6020A	05/11/16 11:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia Steel Casting Co., Inc.  
 PO Box 83095  
 Portland, OR 97283

Project: **ARC Furnace Dust**  
 Project Number: [none]  
 Project Manager: Bruce Schacht

Reported:  
 08/01/16 16:33

### SAMPLE PREPARATION INFORMATION

#### TCLP Metals by EPA 6020 (ICPMS)

**Prep: EPA 1311/3015**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A6E0664-05RE1	Solid	1311/6020A	05/11/16 11:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00
A6E0664-06	Solid	1311/6020A	05/11/16 11:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00
A6E0664-06RE1	Solid	1311/6020A	05/11/16 11:00	06/03/16 10:41	5mL/50mL	5mL/50mL	1.00

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Columbia Steel Casting Co., Inc.

PO Box 83095  
Portland, OR 97283

Project: ARC Furnace Dust

Project Number: [none]  
Project Manager: Bruce Schacht

Reported:  
08/01/16 16:33

## Notes and Definitions

### Qualifiers:

- A-03 Post spike passed, data is acceptable.
- Cr6-02 Matrix Spike fails due to probable reducing conditions present in the sample. Sample results may be biased low.
- H-06 This sample was received, or the analysis requested, outside the recommended holding time.
- PS-02 Post Spike Failed, Serial dilution test performed on the source sample was acceptable. Data quality not affected.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- TCLP This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 6060048.
- TCLPa Limited sample volume. Leachate was prepared using less than the recommended amount of sample per EPA 1311 or 1312. To maintain consistency in leaching, the standard ratio of sample to leachate fluid was maintained.

### Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia Steel Casting Co., Inc.

PO Box 83095

Portland, OR 97283

Project: **ARC Furnace Dust**

Project Number: [none]

Project Manager: Bruce Schacht

Reported:

08/01/16 16:33

--- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

\*\*\* Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Darrell Auvil For Darwin Thomas, Business Development Director

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Columbia Steel Casting Co., Inc.  
PO Box 83095  
Portland, OR 97283


Project: **ARC Furnace Dust**  
Project Number: [none]  
Project Manager: Bruce Schacht

Reported:  
08/01/16 16:33

**APEX LABS**  
 CHAIN OF CUSTODY  
 Lab # AG E0604 CUC # 101

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

APEX LABS		CHAIN OF CUSTODY			
Client Name	Project Name	Project #	Project #		
COLUMBIA STEEL CASTING CO.	ARC FURNACE DUST	97283	97283		
Address: 10425 N GLOSS AVE PORTLAND OR	Project Mgr: SCHACHT	Phone: 286-0685	503-286-3028		
Sampled by: <u>BRUCE SCHACHT</u>	Matrix: <u>ESSENTIAL</u>				
LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST
P1	5/14/16	10:00		1	<input type="checkbox"/> 1200-Z <input type="checkbox"/> 1200-C.O.S. <input type="checkbox"/> T.C.P Metals (R) <input type="checkbox"/> R.C.R Metals (R) <input checked="" type="checkbox"/> 600 T.O. <input type="checkbox"/> 8083 PCBs <input type="checkbox"/> 8270 SIM PAHs <input type="checkbox"/> 8270 SVOC <input type="checkbox"/> 8260 BTEX <input type="checkbox"/> 8260 RHM VOCs <input type="checkbox"/> 8260 VOC <input type="checkbox"/> NMPH-Gs <input type="checkbox"/> NMPH-Ds <input type="checkbox"/> NMPH-HClD
P2	"	"		1	<input checked="" type="checkbox"/> 1200-Z <input checked="" type="checkbox"/> 1200-C.O.S. <input checked="" type="checkbox"/> T.C.P Metals (R) <input checked="" type="checkbox"/> R.C.R Metals (R) <input checked="" type="checkbox"/> 600 T.O. <input type="checkbox"/> 8083 PCBs <input type="checkbox"/> 8270 SIM PAHs <input type="checkbox"/> 8270 SVOC <input type="checkbox"/> 8260 BTEX <input type="checkbox"/> 8260 RHM VOCs <input type="checkbox"/> 8260 VOC <input type="checkbox"/> NMPH-Gs <input type="checkbox"/> NMPH-Ds <input type="checkbox"/> NMPH-HClD
P3	"	"		1	<input checked="" type="checkbox"/> 1200-Z <input checked="" type="checkbox"/> 1200-C.O.S. <input checked="" type="checkbox"/> T.C.P Metals (R) <input checked="" type="checkbox"/> R.C.R Metals (R) <input checked="" type="checkbox"/> 600 T.O. <input type="checkbox"/> 8083 PCBs <input type="checkbox"/> 8270 SIM PAHs <input type="checkbox"/> 8270 SVOC <input type="checkbox"/> 8260 BTEX <input type="checkbox"/> 8260 RHM VOCs <input type="checkbox"/> 8260 VOC <input type="checkbox"/> NMPH-Gs <input type="checkbox"/> NMPH-Ds <input type="checkbox"/> NMPH-HClD
N1	"	11:00		1	<input checked="" type="checkbox"/> 1200-Z <input checked="" type="checkbox"/> 1200-C.O.S. <input checked="" type="checkbox"/> T.C.P Metals (R) <input checked="" type="checkbox"/> R.C.R Metals (R) <input checked="" type="checkbox"/> 600 T.O. <input type="checkbox"/> 8083 PCBs <input type="checkbox"/> 8270 SIM PAHs <input type="checkbox"/> 8270 SVOC <input type="checkbox"/> 8260 BTEX <input type="checkbox"/> 8260 RHM VOCs <input type="checkbox"/> 8260 VOC <input type="checkbox"/> NMPH-Gs <input type="checkbox"/> NMPH-Ds <input type="checkbox"/> NMPH-HClD
N2	"	"		1	<input checked="" type="checkbox"/> 1200-Z <input checked="" type="checkbox"/> 1200-C.O.S. <input checked="" type="checkbox"/> T.C.P Metals (R) <input checked="" type="checkbox"/> R.C.R Metals (R) <input checked="" type="checkbox"/> 600 T.O. <input type="checkbox"/> 8083 PCBs <input type="checkbox"/> 8270 SIM PAHs <input type="checkbox"/> 8270 SVOC <input type="checkbox"/> 8260 BTEX <input type="checkbox"/> 8260 RHM VOCs <input type="checkbox"/> 8260 VOC <input type="checkbox"/> NMPH-Gs <input type="checkbox"/> NMPH-Ds <input type="checkbox"/> NMPH-HClD
N3	"	"		1	<input checked="" type="checkbox"/> 1200-Z <input checked="" type="checkbox"/> 1200-C.O.S. <input checked="" type="checkbox"/> T.C.P Metals (R) <input checked="" type="checkbox"/> R.C.R Metals (R) <input checked="" type="checkbox"/> 600 T.O. <input type="checkbox"/> 8083 PCBs <input type="checkbox"/> 8270 SIM PAHs <input type="checkbox"/> 8270 SVOC <input type="checkbox"/> 8260 BTEX <input type="checkbox"/> 8260 RHM VOCs <input type="checkbox"/> 8260 VOC <input type="checkbox"/> NMPH-Gs <input type="checkbox"/> NMPH-Ds <input type="checkbox"/> NMPH-HClD

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