



20A3053

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AD028 1.3, Effective 06/19/2018, Issued by NWDLs, Page 1 of 2

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Pl 3 of 3
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TCEQ T104704238-20-29
TCEQ-TOX T104704202-19-13

February 26, 2020

PWS_0450108_AC_20200121_WQP Analysis Report

LABORATORY REPORT

Lisa Brooks
Strike Water Services
5042 Gessner Rd
Houston, TX 77041

RE: Boral Concrete Products Alleyton Plant - WQP

The following test results meet all NELAP requirements for analytes for which certification is available. Any deviations from our quality system will be noted in the case narrative. All analyses performed by North Water District Laboratory Services, Inc. unless noted. These analytical results related to the sample(s) tested. This report may not be reproduced or duplicated except in full without written approval of NWDLS.

For questions regarding this report, contact Monica Martin at 936-321-6060.

Sincerely,

Ruth Wills
Project Manager



PWS_0450108_AC_20200121_WQP Analysis Report

Strike Water Services
5042 Gessner Rd
Houston, TX 77041

Project: **Boral Concrete Products Alleyton Plant - WQP**
PWS TX ID: 0450108
Project Manager: Lisa Brooks

Reported:
02/26/2020 16:24

Laboratory Sample Results

Lab Sample ID	20A3053-01	Sample Matrix	Drinking Water
Facility ID	DS01	Sampled	01/21/2020 10:14
Sample Point ID	DSTWQP	Collected by	Lisa Brooks
Sample Location	2088 FM 949 Plant 1 PT	Received	01/21/2020 13:43
Sample Type	Grab		

Method	Analyte	Result	Units	DF	MRL	Batch	Analyzed	Analyst	DQ
SM 2320 B	Alkalinity as CaCO3	119	mg/L	1	10.0	BDA2764	01/22/2020 16:51	NJA	
EPA 200.7	Calcium	38.6	mg/L	1	1.02	BDA3268	01/27/2020 14:13	TBB	
SM 2510 B	Conductivity	283	umhos/cm @ 25 °C	1	2.00	BDA2764	01/22/2020 16:51	NJA	
SM 2340 B	Hardness	109	mg/L	1	6.71	[CALC]	01/27/2020 14:13	TBB	
EPA 200.7	Iron	<0.0305	mg/L	1	0.0305	BDA3268	01/27/2020 14:13	TBB	
EPA 200.7	Magnesium	2.96	mg/L	1	1.02	BDA3268	01/27/2020 14:13	TBB	CB
EPA 200.7	Manganese	<0.0102	mg/L	1	0.0102	BDA3268	01/27/2020 14:13	TBB	
SM 4500-H+ B	pH	7.90	pH Units @ 25 °C	1	1.00	BDA2690	01/21/2020 10:14	LB	
SM 2540 C	Residue-filterable (TDS)	193	mg/L	1	10.0	BDA3385	01/30/2020 17:28	AKA	
EPA 200.7	Sodium	13.2	mg/L	1	4.06	BDA3268	01/27/2020 14:13	TBB	
SM 2550 B	Temperature °C Field	25.0	°C	1	1.00	BDA2690	01/21/2020 10:14	LB	



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Project: **Boral Concrete Products Alleyton Plant - WQP**
PWS TX ID: 0450108
Project Manager: Lisa Brooks

Reported:
02/26/2020 16:24

Laboratory Sample Results (Continued)

Lab Sample ID	20A3053-01RE1	Sample Matrix	Drinking Water
Facility ID	DS01	Sampled	01/21/2020 10:14
Sample Point ID	DSTWQP	Collected by	Lisa Brooks
Sample Location	2088 FM 949 Plant 1 PT	Received	01/21/2020 13:43
Sample Type	Grab		

Method	Analyte	Result	Units	DF	MRL	Batch	Analyzed	Analyst	DQ
EPA 300.0	Chloride (Rerun)	12.5	mg/L	1	0.400	BDA3030	01/23/2020 06:30	EM	
EPA 300.0	Sulfate (Rerun)	3.60	mg/L	1	1.00	BDA3785	02/01/2020 04:24	EM	



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PWS TX ID: 0450108
Project Manager: Lisa Brooks

Reported:
02/26/2020 16:24

Laboratory Sample Results (Continued)

Lab Sample ID	20A3053-02	Sample Matrix	Drinking Water
Facility ID	PBCU002	Sampled	01/21/2020 10:27
Sample Point ID	EWQP	Collected by	lisa Brooks
Sample Location	2088 FM 949 Plant 2 PT	Received	01/21/2020 13:43
Sample Type	Grab		

Method	Analyte	Result	Units	DF	MRL	Batch	Analyzed	Analyst	DQ
SM 2320 B	Alkalinity as CaCO3	168	mg/L	1	10.0	BDA2764	01/22/2020 17:27	NJA	
EPA 200.7	Calcium	44.8	mg/L	1	1.02	BDA3268	01/27/2020 14:16	TBB	
SM 2510 B	Conductivity	381	umhos/cm @ 25 °C	1	2.00	BDA2764	01/22/2020 17:27	NJA	
SM 2340 B	Hardness	141	mg/L	1	6.71	[CALC]	01/27/2020 14:16	TBB	
EPA 200.7	Iron	<0.0305	mg/L	1	0.0305	BDA3268	01/27/2020 14:16	TBB	
EPA 200.7	Magnesium	7.21	mg/L	1	1.02	BDA3268	01/27/2020 14:16	TBB	CB
EPA 200.7	Manganese	<0.0102	mg/L	1	0.0102	BDA3268	01/27/2020 14:16	TBB	
SM 4500-H+ B	pH	7.70	pH Units @ 25 °C	1	1.00	BDA2690	01/21/2020 10:27	LB	
SM 2540 C	Residue-filterable (TDS)	231	mg/L	1	10.0	BDA3385	01/30/2020 17:28	AKA	
EPA 200.7	Sodium	27.3	mg/L	1	4.06	BDA3268	01/27/2020 14:16	TBB	
SM 2550 B	Temperature °C Field	23.0	°C	1	1.00	BDA2690	01/21/2020 10:27	LB	



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PWS TX ID: 0450108
Project Manager: Lisa Brooks

Reported:
02/26/2020 16:24

Laboratory Sample Results (Continued)

Lab Sample ID	20A3053-02RE1	Sample Matrix	Drinking Water
Facility ID	PBCU002	Sampled	01/21/2020 10:27
Sample Point ID	EWQP	Collected by	lisa Brooks
Sample Location	2088 FM 949 Plant 2 PT	Received	01/21/2020 13:43
Sample Type	Grab		

Method	Analyte	Result	Units	DF	MRL	Batch	Analyzed	Analyst	DQ
EPA 300.0	Chloride (Rerun)	11.3	mg/L	1	0.400	BDA3030	01/23/2020 07:10	EM	
EPA 300.0	Sulfate (Rerun)	9.36	mg/L	1	1.00	BDA3785	02/01/2020 04:44	EM	



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02/26/2020 16:24

Laboratory Sample Results (Continued)

Lab Sample ID	20A3053-03	Sample Matrix	Drinking Water
Facility ID	PBCU003	Sampled	01/21/2020 10:36
Sample Point ID	EWQP	Collected by	lisa Brooks
Sample Location	2088 fm 949 Plant 3 PT	Received	01/21/2020 13:43
Sample Type	Grab		

Method	Analyte	Result	Units	DF	MRL	Batch	Analyzed	Analyst	DQ
SM 2320 B	Alkalinity as CaCO3	110	mg/L	1	10.0	BDA2764	01/22/2020 17:35	NJA	
EPA 200.7	Calcium	40.4	mg/L	1	1.02	BDA3268	01/27/2020 14:18	TBB	
SM 2510 B	Conductivity	301	umhos/cm @ 25 °C	1	2.00	BDA2764	01/22/2020 17:35	NJA	
SM 2340 B	Hardness	111	mg/L	1	6.71	[CALC]	01/27/2020 14:18	TBB	
EPA 200.7	Iron	<0.0305	mg/L	1	0.0305	BDA3268	01/27/2020 14:18	TBB	
EPA 200.7	Magnesium	2.34	mg/L	1	1.02	BDA3268	01/27/2020 14:18	TBB	CB
EPA 200.7	Manganese	<0.0102	mg/L	1	0.0102	BDA3268	01/27/2020 14:18	TBB	
SM 4500-H+ B	pH	7.90	pH Units @ 25 °C	1	1.00	BDA2690	01/21/2020 10:36	LB	
SM 2540 C	Residue-filterable (TDS)	225	mg/L	1	10.0	BDA3385	01/30/2020 17:28	AKA	
EPA 200.7	Sodium	18.4	mg/L	1	4.06	BDA3268	01/27/2020 14:18	TBB	
SM 2550 B	Temperature °C Field	23.0	°C	1	1.00	BDA2690	01/21/2020 10:36	LB	



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Laboratory Sample Results (Continued)

Lab Sample ID	20A3053-03RE1	Sample Matrix	Drinking Water
Facility ID	PBCU003	Sampled	01/21/2020 10:36
Sample Point ID	EWQP	Collected by	lisa Brooks
Sample Location	2088 fm 949 Plant 3 PT	Received	01/21/2020 13:43
Sample Type	Grab		

Method	Analyte	Result	Units	DF	MRL	Batch	Analyzed	Analyst	DQ
EPA 300.0	Chloride (Rerun)	19.8	mg/L	1	0.400	BDA3030	01/23/2020 05:30	EM	
EPA 300.0	Sulfate (Rerun)	2.74	mg/L	1	1.00	BDA3030	01/23/2020 05:30	EM	



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02/26/2020 16:24

Laboratory Sample Results (Continued)

Lab Sample ID	20A3053-04	Sample Matrix	Drinking Water
Facility ID	DS01	Sampled	01/21/2020 10:20
Sample Point ID	DSTWQP	Collected by	lisa Brooks
Sample Location	2088 FM 949 Outside HB near Dispatch	Received	01/21/2020 13:43
Sample Type	Grab		

Method	Analyte	Result	Units	DF	MRL	Batch	Analyzed	Analyst	DQ
SM 2320 B	Alkalinity as CaCO3	118	mg/L	1	10.0	BDA2764	01/22/2020 18:08	NJA	
EPA 200.7	Calcium	38.8	mg/L	1	1.02	BDA3268	01/27/2020 14:21	TBB	
SM 2510 B	Conductivity	285	umhos/cm @ 25 °C	1	2.00	BDA2764	01/22/2020 18:08	NJA	
SM 2340 B	Hardness	109	mg/L	1	6.71	[CALC]	01/27/2020 14:21	TBB	
EPA 200.7	Iron	<0.0305	mg/L	1	0.0305	BDA3268	01/27/2020 14:21	TBB	
EPA 200.7	Magnesium	2.98	mg/L	1	1.02	BDA3268	01/27/2020 14:21	TBB	CB
EPA 200.7	Manganese	<0.0102	mg/L	1	0.0102	BDA3268	01/27/2020 14:21	TBB	
SM 4500-H+ B	pH	7.90	pH Units @ 25 °C	1	1.00	BDA2690	01/21/2020 10:20	LB	
SM 2540 C	Residue-filterable (TDS)	202	mg/L	1	10.0	BDA3385	01/30/2020 17:28	AKA	
EPA 200.7	Sodium	15.7	mg/L	1	4.06	BDA3268	01/27/2020 14:21	TBB	
SM 2550 B	Temperature °C Field	23.0	°C	1	1.00	BDA2690	01/21/2020 10:20	LB	



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Laboratory Sample Results (Continued)

Lab Sample ID	20A3053-04RE1	Sample Matrix	Drinking Water
Facility ID	DS01	Sampled	01/21/2020 10:20
Sample Point ID	DSTWQP	Collected by	lisa Brooks
Sample Location	2088 FM 949 Outside HB near Dispatch	Received	01/21/2020 13:43
Sample Type	Grab		

Method	Analyte	Result	Units	DF	MRL	Batch	Analyzed	Analyst	DQ
EPA 300.0	Chloride (Rerun)	12.3	mg/L	1	0.400	BDA3030	01/23/2020 06:50	EM	
EPA 300.0	Sulfate (Rerun)	3.34	mg/L	1	1.00	BDA3030	01/23/2020 06:50	EM	



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PWS TX ID: 0450108
Project Manager: Lisa Brooks

Reported:
02/26/2020 16:24

Quality Control

Metals, Total

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDA3268 - Direct Analysis 200.7

Blank (BDA3268-BLK1)

Prepared & Analyzed: 01/27/2020

Calcium	<1.02		1.02	mg/L						
Iron	<0.0305		0.0305	mg/L						
Magnesium	<1.02		1.02	mg/L						
Manganese	<0.0102		0.0102	mg/L						
Sodium	<4.06		4.06	mg/L						

LCS (BDA3268-BS1)

Prepared & Analyzed: 01/27/2020

Calcium	49.7		1.02	mg/L	50.0		99.4	85-115		
Iron	1.49		0.0305	mg/L	1.50		99.2	85-115		
Magnesium	49.8		1.02	mg/L	50.0		99.6	85-115		
Manganese	0.254		0.0102	mg/L	0.250		101	85-115		
Sodium	99.8		4.06	mg/L	100		99.8	85-115		

Duplicate (BDA3268-DUP1)

Source: 20A3048-01

Prepared & Analyzed: 01/27/2020

Calcium	38.1		1.02	mg/L	37.9			0.455	20	
Iron	0.0218		0.0305	mg/L	0.0219			0.510	20	
Magnesium	6.67		1.02	mg/L	6.69			0.333	20	
Manganese	0.00475		0.0102	mg/L	0.00475			0.00	20	
Sodium	62.8		4.06	mg/L	61.8			1.65	20	

Duplicate (BDA3268-DUP2)

Source: 20A3048-11

Prepared & Analyzed: 01/27/2020

Calcium	35.5		1.02	mg/L	35.3			0.531	20	
Iron	0.293		0.0305	mg/L	0.295			0.462	20	
Magnesium	7.69		1.02	mg/L	7.70			0.122	20	
Manganese	0.0375		0.0102	mg/L	0.0377			0.459	20	
Sodium	65.7		4.06	mg/L	67.5			2.77	20	

MRL Check (BDA3268-MRL1)

Prepared & Analyzed: 01/27/2020

Calcium	2.16		1.02	mg/L	2.00		108	70-130		
Iron	0.0630		0.0305	mg/L	0.0600		105	70-130		
Magnesium	2.13		1.02	mg/L	2.00		107	70-130		
Manganese	0.0104		0.0102	mg/L	0.0100		104	70-130		
Sodium	4.39		4.06	mg/L	4.00		110	70-130		



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PWS TX ID: 0450108
Project Manager: Lisa Brooks

Reported:
02/26/2020 16:24

Quality Control (Continued)

Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BDA3268 - Direct Analysis 200.7 (Continued)

Matrix Spike (BDA3268-MS1)

Source: 20A3048-01

Prepared & Analyzed: 01/27/2020

Calcium	86.9		1.02	mg/L	50.0	37.9	98.0	70-130		
Iron	1.48		0.0305	mg/L	1.50	0.0219	97.2	70-130		
Magnesium	55.4		1.02	mg/L	50.0	6.69	97.3	70-130		
Manganese	0.255		0.0102	mg/L	0.250	0.00475	100	70-130		
Sodium	160		4.06	mg/L	100	61.8	97.9	70-130		

Matrix Spike (BDA3268-MS2)

Source: 20A3048-11

Prepared & Analyzed: 01/27/2020

Calcium	84.5		1.02	mg/L	50.0	35.3	98.5	70-130		
Iron	1.72		0.0305	mg/L	1.50	0.295	94.8	70-130		
Magnesium	55.9		1.02	mg/L	50.0	7.70	96.5	70-130		
Manganese	0.282		0.0102	mg/L	0.250	0.0377	97.7	70-130		
Sodium	165		4.06	mg/L	100	67.5	97.0	70-130		

Dilution Check (BDA3268-SRL1)

Source: 20A3048-01

Prepared & Analyzed: 01/27/2020

Calcium	38.2		5.08	mg/L		37.9			0.831	10
Iron	0.0224		0.152	mg/L		0.0219			1.97	10
Magnesium	6.77		5.08	mg/L		6.69			1.23	10
Manganese	0.00340		0.0510	mg/L		0.00475			33.1	10
Sodium	55.4		20.3	mg/L		61.8			10.9	10

Dilution Check (BDA3268-SRL2)

Source: 20A3048-11

Prepared & Analyzed: 01/27/2020

Calcium	35.8		5.08	mg/L		35.3			1.46	10
Iron	0.298		0.152	mg/L		0.295			1.18	10
Magnesium	7.89		5.08	mg/L		7.70			2.42	10
Manganese	0.0373		0.0510	mg/L		0.0377			1.11	10
Sodium	66.8		20.3	mg/L		67.5			1.05	10



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PWS TX ID: 0450108
Project Manager: Lisa Brooks

Reported:
02/26/2020 16:24

Quality Control (Continued)

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDA2762 - EPA 300.0										
MRL Check (BDA2762-MRL1)						Prepared & Analyzed: 01/21/2020				
Sulfate	0.926		1.00	mg/L	1.00		92.6	50-150		
Chloride	0.952		0.400	mg/L	1.00		95.2	50-150		
Batch: BDA2764 - Alkalinity										
Blank (BDA2764-BLK1)						Prepared & Analyzed: 01/22/2020				
Conductivity	<2.00		2.00	umhos/cm @ 25 °C						
LCS (BDA2764-BS1)						Prepared & Analyzed: 01/22/2020				
Conductivity	1430			umhos/cm @ 25 °C	1410		101	90-110		
LCS (BDA2764-BS2)						Prepared & Analyzed: 01/22/2020				
Conductivity	518			umhos/cm @ 25 °C	500		104	90-110		
LCS (BDA2764-BS3)						Prepared & Analyzed: 01/22/2020				
Conductivity	270		2.00	umhos/cm @ 25 °C				90-110		
Alkalinity as CaCO ₃	98.7			mg/L	100		98.7	90-110		
LCS (BDA2764-BS4)						Prepared & Analyzed: 01/22/2020				
Conductivity	50800		2.00	umhos/cm @ 25 °C				90-110		
Duplicate (BDA2764-DUP1)						Prepared & Analyzed: 01/22/2020				
Conductivity	501		2.00	umhos/cm @ 25 °C		504			0.597	15
Alkalinity as CaCO ₃	171		10.0	mg/L		171			0.491	15
Duplicate (BDA2764-DUP2)						Prepared & Analyzed: 01/22/2020				
Alkalinity as CaCO ₃	187		10.0	mg/L		183			2.25	15
Conductivity	563		2.00	umhos/cm @ 25 °C		560			0.534	15



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02/26/2020 16:24

Quality Control (Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDA3030 - EPA 300.0										
Duplicate (BDA3030-DUP1)		Source: 20A0297-02			Prepared & Analyzed: 01/23/2020					
Sulfate	10.2		1.00	mg/L		10.2		0.176	15	
Chloride	184		0.400	mg/L		184		0.0511	15	
Duplicate (BDA3030-DUP2)		Source: 20A3053-03RE1			Prepared & Analyzed: 01/23/2020					
Chloride	19.7		0.400	mg/L		19.8		0.526	15	
Sulfate	2.72		1.00	mg/L		2.74		0.732	15	
MRL Check (BDA3030-MRL1)					Prepared & Analyzed: 01/23/2020					
Sulfate	0.983		1.00	mg/L	1.00		98.3	50-150		
Chloride	1.01		0.400	mg/L	1.00		101	50-150		
Matrix Spike (BDA3030-MS1)		Source: 20A0297-02			Prepared & Analyzed: 01/23/2020					
Sulfate	53.0		1.11	mg/L	44.4	10.2	96.2	80-120		
Chloride	235		0.444	mg/L	44.4	184	116	80-120		
Matrix Spike (BDA3030-MS2)		Source: 20A3053-03RE1			Prepared & Analyzed: 01/23/2020					
Chloride	67.9		0.444	mg/L	44.4	19.8	108	80-120		
Sulfate	45.1		1.11	mg/L	44.4	2.74	95.2	80-120		
Batch: BDA3385 - TDS										
Blank (BDA3385-BLK1)					Prepared: 01/28/2020 Analyzed: 01/30/2020					
Residue-filterable (TDS)	<10.0		10.0	mg/L						
LCS (BDA3385-BS1)					Prepared: 01/28/2020 Analyzed: 01/30/2020					
Residue-filterable (TDS)	155		10.0	mg/L	150		103	90-110		



PWS_0450108_AC_20200121_WQP Analysis Report

Strike Water Services
5042 Gessner Rd
Houston, TX 77041

Project: **Boral Concrete Products Alleyton Plant - WQP**
PWS TX ID: 0450108
Project Manager: Lisa Brooks

Reported:
02/26/2020 16:24

Quality Control (Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch: BDA3385 - TDS (Continued)									
Duplicate (BDA3385-DUP1) Source: 20A3048-11 Prepared: 01/28/2020 Analyzed: 01/30/2020									
Residue-filterable (TDS)	311		10.0	mg/L		310		0.322	10
Duplicate (BDA3385-DUP2) Source: 20A3117-01 Prepared: 01/28/2020 Analyzed: 01/30/2020									
Residue-filterable (TDS)	479		10.0	mg/L		486		1.45	10
Batch: BDA3785 - EPA 300.0									
Duplicate (BDA3785-DUP1) Source: 20A3048-01 Prepared & Analyzed: 01/31/2020									
Sulfate	15.9		1.00	mg/L		15.7		1.36	15
Duplicate (BDA3785-DUP2) Source: 20A3048-11RE1 Prepared & Analyzed: 02/01/2020									
Sulfate	14.4		1.00	mg/L		14.4		0.257	15
MRL Check (BDA3785-MRL1) Prepared & Analyzed: 01/31/2020									
Sulfate	1.03		1.00	mg/L	1.00		103	50-150	
Matrix Spike (BDA3785-MS1) Source: 20A3048-01 Prepared & Analyzed: 01/31/2020									
Sulfate	55.9		1.00	mg/L	40.0	15.7	100	80-120	
Matrix Spike (BDA3785-MS2) Source: 20A3048-11RE1 Prepared & Analyzed: 02/01/2020									
Sulfate	53.3		1.00	mg/L	40.0	14.4	97.3	80-120	



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Term and Qualfier Definitions

Item	Definition
DF	Dilution Factor - the factor applied to the reported data due to sample preparation, dilution, or moisture content
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated
MRL	Minimum Reporting Limits (MRL) are equivalent to the lowest non-zero calibration standard in a multi-point calibration curve, as applicable
DQ	Data Qualifier
CB	Associated calibration blank QC is outside the established quality control criteria - data not affected and acceptable to report.