

Chromium Investigation Monitoring Group Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
MCOI-5	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2166	CAMO-15-102596	Bromide
		EPA:350.1	J-	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2015-2166	CAMO-15-102596	Ammonia as Nitrogen
		EPA:351.2	UJ	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2015-2166	CAMO-15-102572	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2166	CAMO-15-102596	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2166	CAMO-15-102596	Boron Vanadium
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2166	CAMO-15-102596	Chromium Nickel Uranium
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2166	CAMO-15-102572	Total Organic Carbon
MCOI-6	INORGANIC	EPA:335.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2020	CAMO-15-102573	Cyanide (Total)
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2020	CAMO-15-102597	Copper Manganese Tin Vanadium
R-11	INORGANIC	EPA:245.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2090	CASA-15-102647	Mercury

		EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2090	CASA-15-102647	Bromide
		EPA:351.2	UJ	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2015-2090	CASA-15-102633	Total Kjeldahl Nitrogen
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2090	CASA-15-102647	Boron Tin Zinc
		SW-846:6020	J	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2015-2090	CASA-15-102647	Molybdenum
			J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2090	CASA-15-102647	Selenium
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2090	CASA-15-102647	Arsenic
R-13	INORGANIC	EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2137	CAMO-15-102598	Total Phosphate as Phosphorus
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2137	CAMO-15-102598	Arsenic Chromium
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2137	CAMO-15-102574	Total Organic Carbon
R-15	INORGANIC	EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2156	CAMO-15-102599	Total Phosphate as Phosphorus
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2156	CAMO-15-102599	Arsenic

R-28	INORGANIC	EPA:335.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2151	CAMO-15-102579	Cyanide (Total)
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2151	CAMO-15-102603	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2151	CAMO-15-102603	Boron Tin Zinc
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2151	CAMO-15-102603	Arsenic
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2151	CAMO-15-102579	Total Organic Carbon
R-33 S1	INORGANIC	EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2084	CAMO-15-102559	Ammonia as Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2084	CAMO-15-102559 CAMO-15-102604	Total Phosphate as Phosphorus Total Phosphate as Phosphorus
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2084	CAMO-15-102559 CAMO-15-102604	Chromium Nickel Chromium
			J	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2015-2084	CAMO-15-102604	Molybdenum
		J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2084	CAMO-15-102604	Nickel	
		U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2084	CAMO-15-102559	Molybdenum	

						CAMO-15-102604	Arsenic	
RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102558	Gross alpha Gross beta	
						CAMO-15-102580	Gross alpha Gross beta	
		U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102558	Cesium-137 Cobalt-60 Neptunium-237	
		U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.; R33: Naturally occurring isotope	2015-2084	CAMO-15-102558	Potassium-40	
		U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102558 CAMO-15-102580	Sodium-22 Cesium-137 Cobalt-60 Neptunium-237	
		U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.; R33: Naturally occurring isotope	2015-2084	CAMO-15-102580	Potassium-40	
		U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102580	Sodium-22	
		U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102558 CAMO-15-102580	Strontium-90 Strontium-90	
		U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102558 CAMO-15-102580	Americium-241 Americium-241	
		U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102558 CAMO-15-102580	Plutonium-238 Plutonium-239/240 Plutonium-238 Plutonium-239/240	
	HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102558	Uranium-235/236	
R-33 S2	INORGANIC	EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2084	CAMO-15-102605	Ammonia as Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2084	CAMO-15-102605	Total Phosphate as Phosphorus

		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2084	CAMO-15-102605	Chromium
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2084	CAMO-15-102605	Molybdenum
RAD		EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102581	Gross alpha
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102581	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.; R33: Naturally occurring isotope	2015-2084	CAMO-15-102581	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102581	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102581	Strontium-90
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102581	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102581	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2015-2084	CAMO-15-102581	Uranium-235/236
R-35a	INORGANIC	EPA:350.1	J+	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2015-2125	CASA-15-102650	Ammonia as Nitrogen
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2125	CASA-15-102650	Boron Iron
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2125	CASA-15-102650	Arsenic Chromium
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2125	CASA-15-102636	Total Organic Carbon
R-35b	INORGANIC	EPA:335.4	UJ	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2015-2021	CASA-15-102637	Cyanide (Total)

		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2021	CASA-15-102651	Boron
			J-	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2015-2021	CASA-15-102651	Silicon Dioxide
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2021	CASA-15-102651	Chromium
R-36	INORGANIC	EPA:245.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2090	CASA-15-102638 CASA-15-102652	Mercury Mercury
		EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2090	CASA-15-102652	Bromide
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2090	CASA-15-102652	Boron Manganese Tin
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2090	CASA-15-102652	Chromium
			J	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2015-2090	CASA-15-102652	Molybdenum
			J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2090	CASA-15-102652	Nickel
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2090	CASA-15-102652	Arsenic
R-42	INORGANIC	EPA:351.2	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2151	CAMO-15-102583	Total Kjeldahl Nitrogen
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2151	CAMO-15-102607	Boron Tin

		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2151	CAMO-15-102607	Arsenic
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2151	CAMO-15-102583	Total Organic Carbon
R-43 S1	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2207	CASA-15-102653	Bromide
		EPA:350.1	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2207	CASA-15-102653	Ammonia as Nitrogen
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2207	CASA-15-102653	Boron
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2207	CASA-15-102653	Arsenic Uranium
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2207	CASA-15-102639	Total Organic Carbon
R-43 S2	INORGANIC	EPA:350.1	J	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2015-2191	CASA-15-102654	Ammonia as Nitrogen
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2191	CASA-15-102654	Boron
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2191	CASA-15-102654	Arsenic Nickel
			J	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2015-2191	CASA-15-102654	Uranium
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2191	CASA-15-102654	Chromium

R-44 S1	INORGANIC	SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2084	CAMO-15-102608	Vanadium
		SW-846:6020	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2084	CAMO-15-102608	Molybdenum
R-44 S2	INORGANIC	EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2084	CAMO-15-102609	Ammonia as Nitrogen
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2084	CAMO-15-102609	Chromium
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2084	CAMO-15-102609	Molybdenum
R-45 S1	INORGANIC	EPA:245.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2043	CAMO-15-102586	Mercury
		EPA:335.4	UJ	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2015-2043	CAMO-15-102586	Cyanide (Total)
		EPA:351.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2043	CAMO-15-102586	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2043	CAMO-15-102610	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2043	CAMO-15-102610	Boron Vanadium
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2043	CAMO-15-102610	Arsenic
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2043	CAMO-15-102586	Total Organic Carbon
R-45 S2	INORGANIC	EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2043	CAMO-15-102611	Ammonia as Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2043	CAMO-15-102611	Total Phosphate as Phosphorus

		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2043	CAMO-15-102611	Boron
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2043	CAMO-15-102611	Arsenic Nickel
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2043	CAMO-15-102587	Total Organic Carbon
R-50 S1	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2048	CAMO-15-102612	Bromide
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2048	CAMO-15-102612	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2048	CAMO-15-102612	Boron Vanadium Zinc
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2048	CAMO-15-102612	Arsenic
R-50 S2	INORGANIC	EPA:245.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2048	CAMO-15-102589 CAMO-15-102613	Mercury Mercury
		EPA:351.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2015-2048	CAMO-15-102589	Total Kjeldahl Nitrogen
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2048	CAMO-15-102613	Boron
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2048	CAMO-15-102613	Arsenic Chromium Nickel

R-62	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2157	CAMO-15-102615	Bromide
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2157	CAMO-15-102615	Tin Vanadium
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2157	CAMO-15-102615	Arsenic Nickel
SCI-2	INORGANIC	EPA:335.4	J+	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2015-2126	CASA-15-102643	Cyanide (Total)
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2126	CASA-15-102657	Ammonia as Nitrogen
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2126	CASA-15-102622	Boron Tin Vanadium Zinc
							CASA-15-102657	
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2126	CASA-15-102622	Molybdenum
							J+	I6b
SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2015-2126	CASA-15-102621	Total Organic Carbon		
						CASA-15-102643	Total Organic Carbon	