

Analytical Summary Report

Analysis Method: SM3500-Cr B

ANALYST: ketankumar

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB115357

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP92021
Calibration Std. hexchrome 0.05 ppm	WP92022
calibration std. hexchrome 0.01 ppm	WP92023
calibration std. hexchrome 0 ppm	WP92025
hexavalent chromium color reagent	WP91913
0.2N SULFURIC ACID	WP91740
HEX LOD STD, 0.005PPM	WP92027
Hex LOQ Std, 0.01PPM	WP92028
Calibration Std Hexachrome 0.025 ppm	WP92024
Hexavalent Chromium ICV-LCS Std	WP92026
Calibration and CCV std HexChrome 0.5PPM	WP92020
Calibration std HexChrome 1.0PPM	WP92019

Intercept: -0.0011

Slope: 0.7813

Regression: 0.999995

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100		2.10	0.000	0.000	0.000	0.001		07/14/2021	16:40
2	CAL2	0.01	1	100	100		2.08	0.000	0.006	0.006	0.009	10	07/14/2021	16:40
3	CAL3	0.025	1	100	100		1.98	0.000	0.017	0.017	0.023	8	07/14/2021	16:41
4	CAL4	0.05	1	100	100		1.78	0.000	0.038	0.038	0.050	0	07/14/2021	16:42
5	CAL5	0.1	1	100	100		1.85	0.000	0.078	0.078	0.101	-1	07/14/2021	16:43
6	CAL6	0.5	1	100	100		2.30	0.000	0.390	0.390	0.500	0	07/14/2021	16:44
7	CAL7	1	1	100	100		2.15	0.000	0.780	0.780	0.999	0.1	07/14/2021	16:45

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pH Meter ID: WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100		2.36	0.000	0.391	0.391	0.502	07/14/2021	16:47
2	ICB		1	100	100		2.20	0.000	0.000	0.000	0.001	07/14/2021	16:48
3	CCV1	0.5	1	100	100		2.16	0.000	0.391	0.391	0.502	07/14/2021	16:49
4	CCB1		1	100	100		1.74	0.000	0.000	0.000	0.001	07/14/2021	16:50
5	RL Check	0.01	1	100	100		1.95	0.000	0.007	0.007	0.010	07/14/2021	16:51
6	lb115357BL		1	100	100		1.82	0.000	0.000	0.000	0.001	07/14/2021	16:52
7	lb115357BS	0.5	1	100	100		2.08	0.000	0.391	0.391	0.502	07/14/2021	16:53
8	M2940-10		1	100	100		1.80	0.000	0.003	0.003	0.005	07/14/2021	16:54
9	M2940-11		1	100	100		2.09	0.000	0.008	0.008	0.012	07/14/2021	16:55
10	M3039-22		1	100	100		2.14	0.004	0.004	0.000	0.001	07/14/2021	16:56
11	M3039-22DU		1	100	100		2.30	0.003	0.003	0.000	0.001	07/14/2021	16:57
12	M3039-22MS	1	2	100	100		2.25	0.003	0.121	0.118	0.152	07/14/2021	16:58
13	M3039-22MS	1	2	100	100		2.20	0.004	0.122	0.118	0.152	07/14/2021	16:59
14	CCV2	0.5	1	100	100		1.80	0.000	0.390	0.390	0.501	07/14/2021	17:00
15	CCB2		1	100	100		1.93	0.000	0.000	0.000	0.001	07/14/2021	17:00

WORKLIST(Hardcopy Internal Chain)

LB115357

WorkList Name : hex71421 WorkList ID : 150564 Department : Wet-Chemistry Date : 07-14-2021 14:41:50

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
07/26/2021	Water	M2940-10	Hexavalent Chromium	Cool 4 deg C	CHEM02	QA Office	LOD-MDL-WATER-04-QT	07/06/2021	SM3500-Cr B
07/26/2021	Water	M2940-11	Hexavalent Chromium	Cool 4 deg C	CHEM02	QA Office	LOQ-WATER-05-QT3-20	07/06/2021	SM3500-Cr B
07/21/2021	Water	M3039-22	Hexavalent Chromium	Ammonium sul	LIRO01	L31	EX-05	07/14/2021	SM3500-Cr B

Date/Time 07/14/21 16:30
 Raw Sample Received by: KS (WC)
 Raw Sample Relinquished by: KS (WC)

Date/Time 07/14/21 16:55
 Raw Sample Received by: SP (WC)
 Raw Sample Relinquished by: KS (WC)

CHEMTECH

SOP ID: M3060A.7196A-Hex.Chromium

Revision #25

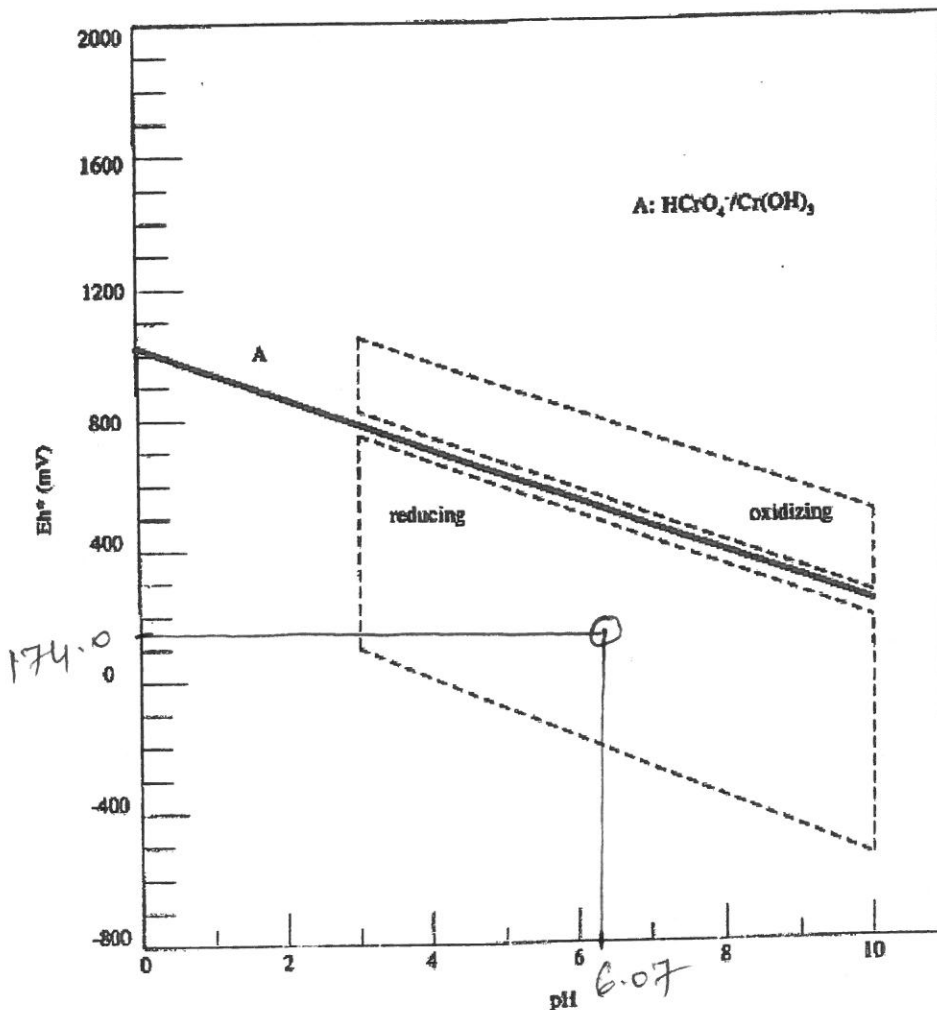
QA Control Code: A2040051

Effective Date: February 16, 2021

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FIGURE 2
Eh/pH PHASE DIAGRAM

The dashed lines define Eh-pH boundaries commonly encountered in soils and sediments.



* Note the Eh values plotted on this diagram are corrected for the reference electrode voltage; 244 mV units must be added to the measured value when a separate calomel electrode is used, or 199 mV units must be added if a combination platinum electrode is used.

M3039-22
pH = 6.07
Eh = 174.0
KS