

Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB94685

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP63776
Calibration Std. hexchrome 0.05 ppm	WP63775
5N sulfuric acid	WP61786
Hexavalent Chromium LCS Std	WP63780
Calibratation STD HexaChrome 1 PPM	WP63778
Calibratation STD Hexa Chrome 0.5 PPM	WP63777
calibration std. hexchrome 0.01 ppm	WP63773
calibration std. hexchrome 0 ppm	WP63772
Hexavalent Chromium ICV Std.	WP63779
Hexavalent Chromium CCV Std	WP63781
hexavalent chromium color reagent	WP63707
Calibration std Hexachrome, 0.025ppm	WP63774

Intercept: 0.0005

Slope: 0.7678

Regression: 0.999971

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb. at 540		Absorbance Difference	Anal Date	Anal Time
								Backgrnd	Color			
1	CAL1	0	1	100	100		1.72	0.000	0.000	0.000	04/17/2018	15:00
2	CAL2	0.01	1	100	100		2.10	0.000	0.008	0.008	04/17/2018	15:00
3	CAL3	0.025	1	100	100		1.68	0.000	0.018	0.018	04/17/2018	15:01
4	CAL4	0.05	1	100	100		1.75	0.000	0.039	0.039	04/17/2018	15:01
5	CAL5	0.1	1	100	100		2.33	0.000	0.077	0.077	04/17/2018	15:02
6	CAL6	0.5	1	100	100		2.21	0.000	0.389	0.389	04/17/2018	15:02
7	CAL7	1	1	100	100		1.84	0.000	0.766	0.766	04/17/2018	15:03



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Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb. at 540		Absorbance Difference	Result	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100		1.73	0.000	0.391	0.391	0.509	04/17/2018	15:03
2	ICB		1	100	100		1.60	0.000	0.000	0.000	-0.001	04/17/2018	15:04
3	CCV1	0.5	1	100	100		1.97	0.000	0.375	0.375	0.488	04/17/2018	15:50
4	CCB1		1	100	100		2.13	0.000	0.000	0.000	-0.001	04/17/2018	15:50
5	LB94685BL		1	100	100		1.83	0.000	0.000	0.000	-0.001	04/17/2018	15:51
6	LB94685BS	0.5	1	100	100		2.41	0.000	0.370	0.370	0.481	04/17/2018	15:51
7	J2387-11		1	100	100		2.28	0.003	0.003	0.000	-0.001	04/17/2018	15:52
8	J2387-11DUP		1	100	100		1.77	0.004	0.004	0.000	-0.001	04/17/2018	15:52
9	J2387-11MS	1	2	100	100		1.54	0.007	0.007	0.000	-0.001	04/17/2018	15:53
10	J2387-11MSD	1	2	100	100		2.20	0.006	0.006	0.000	-0.001	04/17/2018	15:53
11	J2387-12		1	100	100		2.33	0.001	0.001	0.000	-0.001	04/17/2018	15:54
12	J2387-13		1	100	100		1.84	0.008	0.008	0.000	-0.001	04/17/2018	15:54
13	CCV2	0.5	1	100	100		2.36	0.000	0.375	0.375	0.488	04/17/2018	15:55
14	CCB2		1	100	100		2.44	0.000	0.000	0.000	-0.001	04/17/2018	15:55

WORKLIST(Hardcopy Internal Chain)

5394485

WorkList Name : Hex041718

WorkList ID : 110896

Date : 4/17/2018 12:59:24 PM

Due Date	Matrix	Sample	Test	Preservative	Customer	Storage Location	Customer Sample	Collect Date	Method
04/27/2018	Solid	J2387-11	Hexavalent Chromium	Cool 4 deg C	AQUA04	N13	20180244-AMEND-COMP-A	04/11/2018	7196A
04/27/2018	Solid	J2387-12	Hexavalent Chromium	Cool 4 deg C	AQUA04	N13	20180245-AMEND-COMP-B	04/11/2018	7196A
04/27/2018	Solid	J2387-13	Hexavalent Chromium	Cool 4 deg C	AQUA04	N13	20180246-AMEND-COMP-C	04/11/2018	7196A

Date/Time 04/17/18 13:05
 Received by: IB
 Relinquished by:

Date/Time 04/17/18 15:59
 Received by:
 Relinquished by: IB

pH = 11.65
EH = -242.6

CHEMTECH

SOP ID: M3060A.7196A-Hex.Chromium

Revision #21

QA Control Code: A2040051

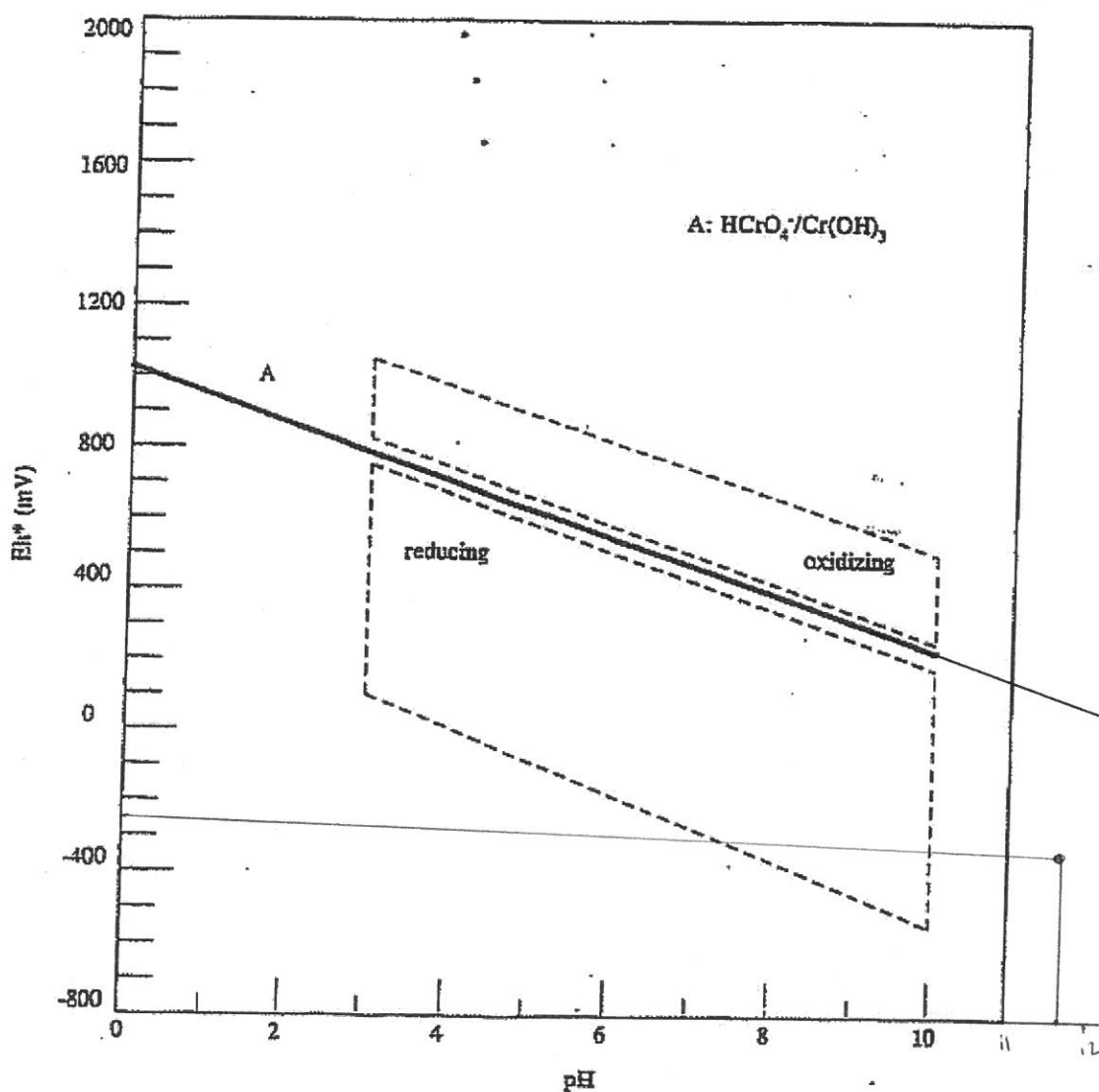
Effective Date: May 29, 2017

Page 10 of 11

Appendix A

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.