

Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB98276

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP68239
Calibration Std. hexchrome 0.05 ppm	WP68238
Hexavalent Chromium LCS Std	WP68244
Calibratation STD HexaChrome 1 PPM	WP68241
Calibratation STD Hexa Chrome 0.5 PPM	WP68240
calibration std. hexchrome 0.01 ppm	WP68236
calibration std. hexchrome 0 ppm	WP68235
Hexavalent Chromium ICV Std.	WP68242
Hexavalent Chromium CCV Std	WP68243
hexavalent chromium color reagent	WP68245
HNO3 Hex-Chrome, 5M	WP65055
Calibration std Hexachrome, 0.025ppm	WP68237

Intercept: 0.0003

Slope: 0.7702

Regression: 0.999977

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		2.10	0.000	0.000	0.000	10/01/2018	09:35
2	CAL2	0.01	1	100	100		1.89	0.000	0.007	0.007	10/01/2018	09:35
3	CAL3	0.025	1	100	100		2.15	0.000	0.017	0.017	10/01/2018	09:36
4	CAL4	0.05	1	100	100		1.79	0.000	0.039	0.039	10/01/2018	09:36
5	CAL5	0.1	1	100	100		2.40	0.000	0.080	0.080	10/01/2018	09:37
6	CAL6	0.5	1	100	100		1.67	0.000	0.388	0.388	10/01/2018	09:37
7	CAL7	1	1	100	100		2.15	0.000	0.769	0.769	10/01/2018	09:38



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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		1.71	0.000	0.390	0.390	0.506	10/01/2018	09:38
2	ICB		1	100	100		2.43	0.000	0.000	0.000	0.000	10/01/2018	09:39
3	CCV1	0.5	1	100	100		1.60	0.000	0.390	0.390	0.506	10/01/2018	09:39
4	CCB1		1	100	100		2.10	0.000	0.000	0.000	0.000	10/01/2018	09:40
5	LB98276BL		1	100	100		1.93	0.000	0.000	0.000	0.000	10/01/2018	09:40
6	LB98276BS	0.5	1	100	100		1.74	0.000	0.382	0.382	0.496	10/01/2018	09:41
7	J5188-03		1	100	100		2.19	0.373	0.373	0.000	0.000	10/01/2018	09:41
8	J5188-04		1	100	100		2.35	0.187	0.188	0.001	0.001	10/01/2018	09:42
9	J5188-04DUP		1	100	100		1.72	0.189	0.190	0.001	0.001	10/01/2018	09:42
10	J5188-04MS	1	2	100	100		1.88	0.206	0.210	0.004	0.005	10/01/2018	09:43
11	J5188-04MSD	1	2	100	100		2.27	0.208	0.211	0.003	0.004	10/01/2018	09:43
12	CCV2	0.5	1	100	100		2.33	0.000	0.391	0.391	0.507	10/01/2018	09:44
13	CCB2		1	100	100		1.87	0.000	0.000	0.000	0.000	10/01/2018	09:44

LB98276

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Hex100118-2

WorkList ID : 117411

Date : 10/1/2018 9:10:49 AM

Due Date	Matrix	Sample	Test	Preservative	Customer	Storage Location	Customer Sample	Collect Date	Method
09/29/2018	Water	J5188-03	Hexavalent Chromium	Cool 4 deg C	ENVI77	N13	VWWT-TK-03.04.06	09/28/2018	7196A
09/29/2018	Water	J5188-04	Hexavalent Chromium	Cool 4 deg C	ENVI77	N13	VWWT-TK-01.02.05	09/28/2018	7196A

Date/Time

Received by:

Relinquished by:

10/01/18 9:15
IB
CB

Date/Time

Received by:

Relinquished by:

10/01/18 10:00
CB
IB

CHEMTECH

SOP ID: M3060A.7196A-Hex.Chromium

Revision #22

QA Control Code: A2040051

Effective Date: May 25, 2018

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Appendix A

J5184-09

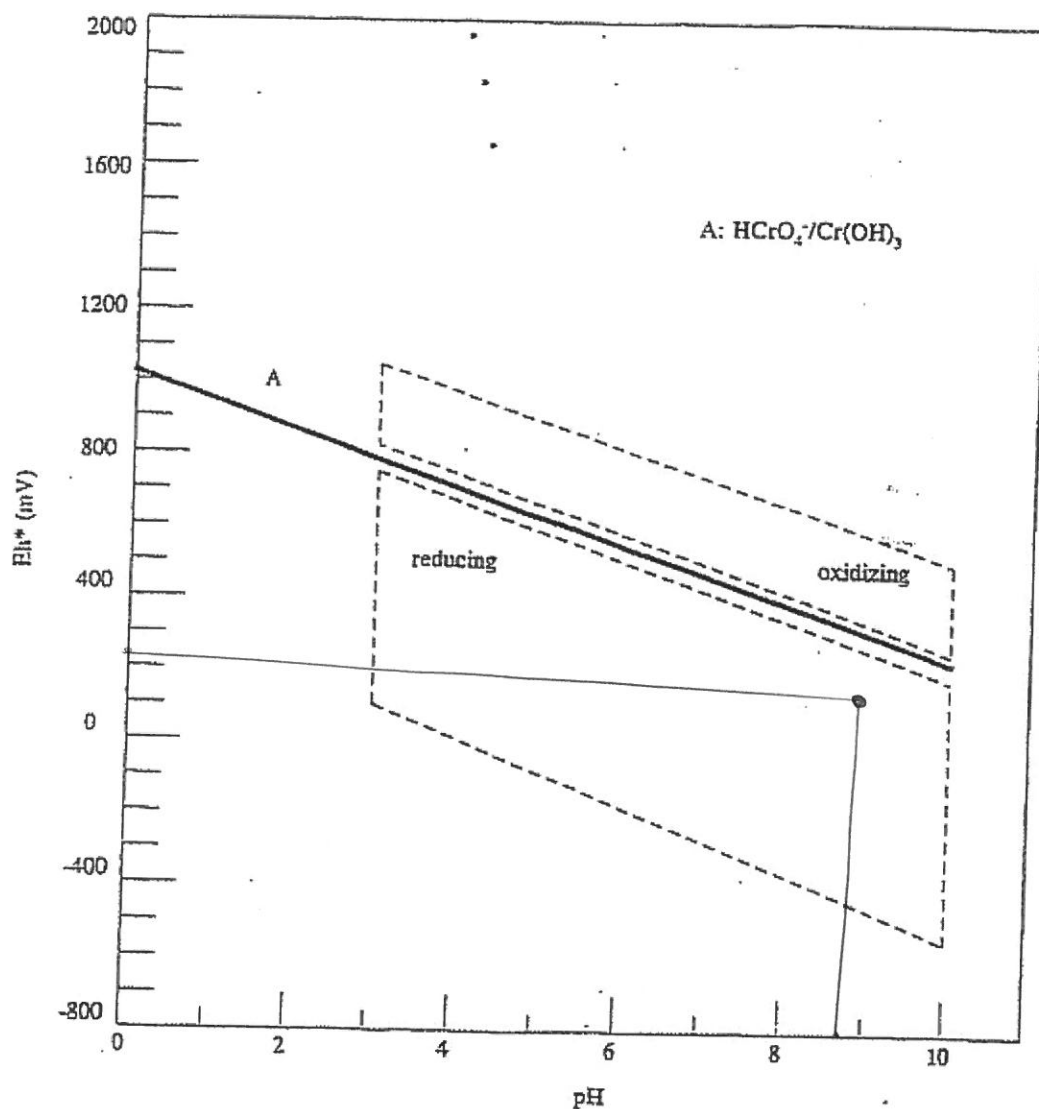
PH: 8.76

Eh: 227

FIGURE 2
Eh/pH PHASE DIAGRAM

10/02/18 IB

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.