

Laboratory Report

Report prepared for:

David Morgan
 Elco Corp
 Detrex Corp/Chem Div
 1000 Belt Line Ave
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 Phone: 216-749-2605 ext. 251
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Report prepared by:

Debbie S Robertson

Purchase Order:

70271546

For further assistance, contact:

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Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
Sample: Hydrochlorid Acid HOKX 1325881219					
Lab ID: 2019-K-3100		Received: 2019-12-20			
<i>118: Residue on Ignition (ROI)</i>					
	Reagent Chemicals	< 5 ppm	As Received	200 g	2020-01-03
<i>352: Ammonia (NH3)</i>					
	Reagent Chemicals	< 3 ppm	As Received	3.30716 g	2019-12-26
	Reagent Chemicals (matrix spike)	≥ 3 ppm	As Received	3.31956 g	2019-12-26
<i>782: Iron Method 1</i>					
	Reagent Chemicals	< 0.2 ppm	As Received	50.0357 g	2019-12-27
	Reagent Chemicals (matrix spike)	≥ 0.2 ppm	As Received	50.0783 g	2019-12-27
<i>785: Sulfate</i>					
	Reagent Chemicals	< 1 ppm	As Received	42 mL	2019-12-30
	Reagent Chemicals (matrix spike)	≥ 1 ppm	As Received	42 mL	2019-12-30

Signatures:

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2020-01-06T21:20:39.897-05:00
 2020-01-06T21:17:36.493-05:00

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Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
Sample: Hydrochloric Acid HOKX 1325881219					
Lab ID: 2020-K-3828		Received: 2020-01-09			
<i>408: Color</i>					
	Reagent Chemicals	3 APHA color	As Received	100 mL	2020-01-14
<i>772: Sulfite</i>					
	Reagent Chemicals	< 1 ppm	As Received	85 mL	2020-01-15
<i>774: Br/I, Free Br/Cl, SO4/SO3</i>					
	Reagent Chemicals	< 1 ppm	As Received	50 mL	2020-01-22
	Reagent Chemicals (matrix spike)	≥ 1 ppm	As Received	50 mL	2020-01-22
<i>778: Bromide</i>					
	Reagent Chemicals	< 0.005 %	As Received	1 mL	2020-01-15
	Reagent Chemicals (matrix spike)	≥ 0.005 %	As Received	1 mL	2020-01-15
<i>cAs: Arsenic Color Method II</i>					
	Reagent Chemicals	< 0.01 ppm	As Received	300.395 g	2020-01-14
	Reagent Chemicals (matrix spike)	≥ 0.01 ppm	As Received	300.094 g	2020-01-14
<i>j35: Hydrochloric Acid</i>					
	Reagent Chemicals	37.29 %	As Received	3.36763 g	2020-01-13

For all samples on this report:

- The matrix spike analysis was performed to satisfy method requirements. There is no additional charge for the matrix spike result.

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2020-01-23T21:18:42.237-05:00
2020-01-23T21:19:02.767-05:00

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