



Pace Analytical Services, Inc.  
723 Kasota Ave. SE  
Minneapolis, MN 55414

Phone: 612.656.1100  
Fax: 612.656.1181

[www.pacelabs.com](http://www.pacelabs.com)

**LABORATORY ANALYSIS REPORT**

DATE: 2010/05/12  
CLIENT: Pionetics Corporation  
151H Old County Road  
San Carlos, CA 94070

PAGE: 1 of 7  
PROJECT: 549  
COLLECTED BY: AB  
PROJECT REC'D: 2010-03-04  
PROJECT DESC: Linx 140-120V

CONTACT: Eric Nyberg

Pace Analyticals Product Testing Division received 2 Linx 140-120V (s) for the analysis presented in the following report.

All data reported is associated with quality control that met method, EPA, NSF/ANSI or internal laboratory specification. Any exceptions are noted in a footnote or narrative format.

Pace Analytical Services, Inc. appreciates the opportunity to provide you with this product testing service. We value your feedback, would you please take a few minutes to access our customer satisfaction survey at: <http://www.pacelabs.com/my-account/customer-survey.html> . If you have any questions or comments regarding this report, please feel free to contact us.

Sincerely,

Enclosure



**ANSI/NSF 53-2009 Fluoride Reduction**

<b>Sample: 006070</b>		<b>Description: Influent</b>			<b>Volume: 10 Unit Volume</b>	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Conductivity	799	uS/cm	1	EPA 120.1	2010-04-28	2010-04-28
Fluoride	8.17	mg/L	1.00	SM 4500-F	2010-04-28	2010-04-28
pH (wc)	7.29	(None)	NA	EPA 150.1	2010-04-28	2010-04-28
Pressure (psi)	60	psi	NA	(None)	2010-04-28	2010-04-28
Temperature (wc)	17.8	°C	NA	EPA 150.1	2010-04-28	2010-04-28
Total Dissolved Solids (wc)	386	mg/L	10	EPA 160.1	2010-04-28	2010-04-29
Total Organic Carbon (wc)	1.92	mg/L	0.5	SM 5310C	2010-04-28	2010-05-04
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2010-04-28	2010-04-28

**ANSI/NSF 53-2009 Fluoride Reduction**

<b>Sample: 006076</b>		<b>Description: Linx 140-120V #3</b>			<b>Volume: 10 Unit Volume</b>	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Conductivity	10	uS/cm	1	EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	99	%	NA	EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.453	GPM	NA	(None)	2010-04-28	2010-04-28
Fluoride	<0.10	mg/L	0.10	SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	>99	%	NA	SM 4500-F	2010-04-28	2010-04-28

**ANSI/NSF 53-2009 Fluoride Reduction**

<b>Sample: 006077</b>		<b>Description: Linx 140-120V #4</b>			<b>Volume: 10 Unit Volume</b>	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Conductivity	8	uS/cm	1	EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	99	%	NA	EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.439	GPM	NA	(None)	2010-04-28	2010-04-28
Fluoride	<0.10	mg/L	0.10	SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	>99	%	NA	SM 4500-F	2010-04-28	2010-04-28



**ANSI/NSF 53-2009 Fluoride Reduction**

<b>Sample: 006078</b>	<b>Description: Linx 140-120V #3</b>	<b>Volume: 2.8 Liters</b>
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<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Conductivity	36	uS/cm	1	EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	96	%	NA	EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.453	GPM	NA	(None)	2010-04-28	2010-04-28
Fluoride	0.34	mg/L	0.10	SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	95.8	%	NA	SM 4500-F	2010-04-28	2010-04-28

**ANSI/NSF 53-2009 Fluoride Reduction**

<b>Sample: 006079</b>	<b>Description: Linx 140-120V #4</b>	<b>Volume: 2.8 Liters</b>
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<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Conductivity	33	uS/cm	1	EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	96	%	NA	EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.439	GPM	NA	(None)	2010-04-28	2010-04-28
Fluoride	0.41	mg/L	0.10	SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	95.0	%	NA	SM 4500-F	2010-04-28	2010-04-28

**ANSI/NSF 53-2009 Fluoride Reduction**

<b>Sample: 006080</b>	<b>Description: Linx 140-120V #3</b>	<b>Volume: 5.7 Liters</b>
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<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Conductivity	50	uS/cm	1	EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	94	%	NA	EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.453	GPM	NA	(None)	2010-04-28	2010-04-28
Fluoride	0.57	mg/L	0.10	SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	93.0	%	NA	SM 4500-F	2010-04-28	2010-04-28

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**ANSI/NSF 53-2009 Fluoride Reduction**

**Sample: 006081**

**Description: Linx 140-120V #4**

**Volume: 5.7 Liters**

<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting</u>		<u>Method</u>	<u>Date</u>	<u>Date</u>
			<u>Limit</u>	<u>Collected</u>		<u>Analyzed</u>	
Conductivity	47	uS/cm	1		EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	94	%	NA		EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.439	GPM	NA		(None)	2010-04-28	2010-04-28
Fluoride	0.60	mg/L	0.10		SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	92.7	%	NA		SM 4500-F	2010-04-28	2010-04-28

**ANSI/NSF 53-2009 Fluoride Reduction**

**Sample: 006082**

**Description: Linx 140-120V #3**

**Volume: 8.5 Liters**

<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting</u>		<u>Method</u>	<u>Date</u>	<u>Date</u>
			<u>Limit</u>	<u>Collected</u>		<u>Analyzed</u>	
Conductivity	54	uS/cm	1		EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	93	%	NA		EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.453	GPM	NA		(None)	2010-04-28	2010-04-28
Fluoride	0.58	mg/L	0.10		SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	92.9	%	NA		SM 4500-F	2010-04-28	2010-04-28

**ANSI/NSF 53-2009 Fluoride Reduction**

**Sample: 006083**

**Description: Linx 140-120V #4**

**Volume: 8.5 Liters**

<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting</u>		<u>Method</u>	<u>Date</u>	<u>Date</u>
			<u>Limit</u>	<u>Collected</u>		<u>Analyzed</u>	
Conductivity	46	uS/cm	1		EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	94	%	NA		EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.439	GPM	NA		(None)	2010-04-28	2010-04-28
Fluoride	0.57	mg/L	0.10		SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	93.0	%	NA		SM 4500-F	2010-04-28	2010-04-28



**ANSI/NSF 53-2009 Fluoride Reduction**

<b>Sample: 006084</b>	<b>Description: Linx 140-120V #3</b>	<b>Volume: 11.4 Liters</b>
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<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Conductivity	57	uS/cm	1	EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	93	%	NA	EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.453	GPM	NA	(None)	2010-04-28	2010-04-28
Fluoride	0.57	mg/L	0.10	SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	93.0	%	NA	SM 4500-F	2010-04-28	2010-04-28

**ANSI/NSF 53-2009 Fluoride Reduction**

<b>Sample: 006085</b>	<b>Description: Linx 140-120V #4</b>	<b>Volume: 11.4 Liters</b>
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<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Conductivity	50	uS/cm	1	EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	94	%	NA	EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.439	GPM	NA	(None)	2010-04-28	2010-04-28
Fluoride	0.54	mg/L	0.10	SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	93.4	%	NA	SM 4500-F	2010-04-28	2010-04-28

**ANSI/NSF 53-2009 Fluoride Reduction**

<b>Sample: 006086</b>	<b>Description: Linx 140-120V #3</b>	<b>Volume: 13.6 Liters</b>
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<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Conductivity	58	uS/cm	1	EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	93	%	NA	EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.453	GPM	NA	(None)	2010-04-28	2010-04-28
Fluoride	0.61	mg/L	0.10	SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	92.5	%	NA	SM 4500-F	2010-04-28	2010-04-28



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**ANSI/NSF 53-2009 Fluoride Reduction**

**Sample: 006087**

**Description: Linx 140-120V #4**

**Volume: 13.6 Liters**

<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Conductivity	51	uS/cm	1	EPA 120.1	2010-04-28	2010-04-28
Conductivity % Red	94	%	NA	EPA 120.1	2010-04-28	2010-05-07
Flow Rate	0.439	GPM	NA	(None)	2010-04-28	2010-04-28
Fluoride	0.61	mg/L	0.10	SM 4500-F	2010-04-28	2010-04-28
Fluoride % Red	92.5	%	NA	SM 4500-F	2010-04-28	2010-04-28

**PERFORMANCE SUMMARY**

<i>Contaminant</i>	<i>Fluoride</i>	
<i>Number of Systems Tested</i>	2	
<i>Rated Claim</i>	11.40	LITERS
<i>Performance Indicating Device (PID)</i>	Yes	
<i>Total Test Volume</i>	14	LITERS
<i>Percentage of Rated Claim</i>	123	PERCENT
<i>Manufacturers Rated Flow Rate</i>	0.50	GPM
<i>Average Flow Rate (all devices)</i>	0.446	GPM
<i>Average Test Influent</i>	8.17	mg/L
<i>Average Effluent (all devices)</i>	<1.00	mg/L
<i>Maximum Allowable Effluent Level</i>	1.5	mg/L
<i>Failure Point - Linx 140-120V #3</i>	Didn't Fail	LITERS
<i>Failure Point - Linx 140-120V #4</i>	Didn't Fail	LITERS

*This report has been reviewed for technical accuracy and completeness. The analyses were performed using EPA or other approved methodologies and the results were reported on an "as received" basis unless otherwise noted. These results relate only to the items tested.*

Revisions:

This reported was revised to include the correct sampling points, percent fluoride reductions, flow rate tested at, claimed capacity, and maximum allowable effluent per customer request.

*NA = Not Applicable*

*su - Standard Units*

*UV - Unit Volume*

*mg/L = milligrams per Liter*

*ug/L = micrograms per Liter*

*GPM = Gallons Per Minute*

*NTU = Nephelometric Turbidity Unit*

*(wc) = Water Characteristics are for monitoring purposes only, quality control samples may or may not have been performed.*

END OF DOCUMENT