



NATIONAL PLASTERERS COUNCIL

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**SATURATION INDEX CALCULATOR**

Customer Name  TARGET

pH  7.4-7.6

Total Alkalinity  ppm 80-120

CYA  ppm 30-50

Borate  ppm 50

Calcium Hardness  ppm 200-400

TDS  ppm 1500 max OVER STARTING

Temperature  °F

08/24/2017 Adjusted for CYA and Borate **Save**

**SATURATION INDEX** NaN Invalid Entries Acceptable Range -0.30 to +0.50 **View History**

**Lowry**  
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## NPC LSI Calculator

In our desire to continue to offer new benefits, the NPC will shortly be releasing our new NPC LSI Calculator app for smart phones (both iPhones and Android devices).

For years NPC has stressed the value of the Langelier Saturation Index (LSI) in all its educational classes and programs. The LSI is used to predict if pool or spa water is corrosive, scaling or balanced.

In our NPC Daily Water Chemistry and Maintenance card, we discuss the LSI and have charts for finding the factors used in calculating the LSI. Each water condition must be found in the charts, inserted into an equation and a calculation made.

In the field no charts are available. To address this situation the NPC Board of Directors earlier this year authorized the creation of a smart phone LSI app.

The person selected to design this app was Mr. Robert Lowry. Mr. Lowry is the author of the IPSSA Basic and Intermediate Training Manuals and 14 other books on pool and spa water chemistry. Those of you who have taken the NPC Start – Up Certification course were given the *IPSSA Basic Training Manual 2016 Revised Edition Part 1 - Chemicals*. Mr. Lowry is a renowned consulting chemist in the swimming pool and spa industry.

Mr. Lowry has designed the NPC LSI Calculator which will soon be available for sale and downloading from Apple iTunes App Store and Google Play to your smart phone (iPhone and Android devices). Input the essential results of your water tests including pH, Total Alkalinity, Stabilizer (CYA), Borate, Calcium Hardness, Total Dissolved Solids (TDS), and Temperature and the app instantly calculates and displays the LSI.



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This app uses the original mathematical equations with logarithms, square roots and adjusted carbonate alkalinity for CYA and Borates. The new NPC LSI app does not rely on inaccurate look – up tables and factors and no complicated adjustments for CYA. It is very precise and accurate and is the only app that has adjustments to LSI for borates.

You input your water test results including temperature, hit Done and the LSI number will be displayed on a colored screen. It takes less time to enter all the water test results into the app than it does to find just one factor using the charts. The LSI range of (0.0 to +0.3) will display green; the LSI numbers (– 0.3 to -0.1) will display yellow; the LSI numbers (+0.31 to +0.5) will display amber or yellow; LSI numbers greater than -0.31 and greater than + 0.51 will display red. You get real-time results in the field. No more waiting until you have the charts and a calculator to find out if the water is balanced.

You can then save your records with water test results and the LSI calculation to a history feature on the app. Records can be viewed chronologically or you can search and review by customer name. The number of records saved is only limited by your phone’s memory capability.

Protecting the pool or spa surface, plumbing and equipment and having balanced water for your customers, your family or guest are easy with the new NPC LSI Calculator app.

***Stay tuned for the upcoming release date!***