



Florida Department of  
**TRANSPORTATION**

# **LIMS Chloride Data**



## Florida Department of TRANSPORTATION

- Getting access to LIMS for Contractors/Producers
- At least one user per facility
  - Link on the State Materials Office
    - Main Page
    - Click on Programs and Services
    - Click on LIMS
    - Click on How to Request Access



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- Getting to LIMS
  - Housed on the FDOT Citrix Servers
  - Citrix is used to access the LIMS Application
    - Log into Citrix
    - Log into LIMS



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The screenshot displays the Citrix Web Interface in a browser window. The browser's address bar shows the URL: `https://fdotfuse.dct.state.fl.us/Citrix/MetaFrame/auth/login.aspx`. The browser's tab bar includes several open tabs: "SSRC Southwood Shared ...", "POC Test Site", "Testing Feedback", and "MAC Design Build Project".

The main content area is titled "CITRIX Web Interface" and is divided into several sections:

- Log in:** A form with fields for "User name:" (containing "rt820sb"), "Password:" (masked with dots), and "Domain:" (containing "sm"). Below the fields are "Advanced Options >>>" and a "Log In" button.
- Welcome:** A message stating: "FDOT will be upgrading its Citrix environment completing May 31, 2014. As part of this upgrade the Citrix web site (<http://receiver.citrix.com>). The current client software (Citrix Receiver) is... All users accessing this site from an external location with a non FDOT PC, please follow the [BSSO CITRIX CLIENT PRODUCTION UPGRADE GUIDE](#)".
- Message Center:** A section with a heading and a large empty space below it.



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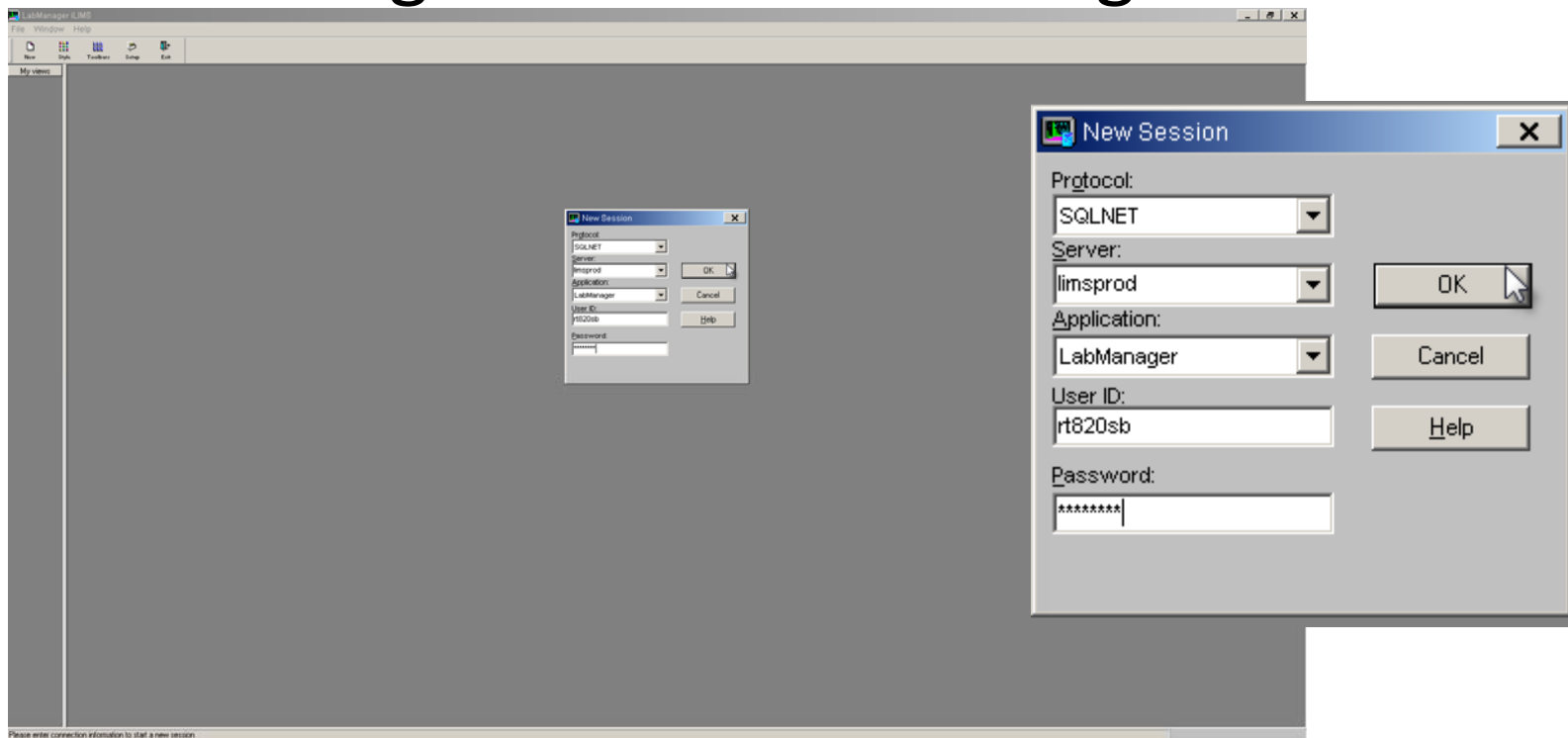
- Now you're logged into Citrix, but not LIMS
- Select the LIMS icon to log into LIMS

A screenshot of the Citrix Web Interface. The top left corner displays the Citrix logo and the text "Web Interface". Below this is a "Applications" section with a "Top Up" button and several application icons: "Accessibility Options", "LIMS 10" (which is highlighted with a mouse cursor), "Mouse Properties", "Site Manager Help", and "SiteManager". At the bottom of the Applications section are three buttons: "Reconnect", "Disconnect", and "Log Off". To the right of the Applications section is a "Welcome" message from FDOT regarding an upgrade, and a "Message Center" section with a message about reconnection.



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- LIMS Login Screen – Same login information





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- Sample Login

The screenshot shows the 'LabManager LIMS' application window. The title bar reads 'Elazo, Susan-LabManager:Single Routine Sample Login'. The form contains the following fields and values:

- LIMS Sample Id: [ ] Resolution Sample: N
- Project ID: 1909701A101 Pay Item No: N/A Matl ID: PROCL2 Sample Level: Q
- Year/Authority: 200901/STD Spec 346 Sub Matl ID: [ ]
- Matl ID (On Spec): PROCL2 Level: Q Auth: STD Spec 346 Year: 200901
- Destination LabID: DSM001 Date Sampled: 12:00 AM 02/25/2014
- Sampled By (TIN#): [ ] (Annnnnnnn-00X)
- Manfr or Prod: [ ] Source (Shipped From): [ ]
- Sample No: [ ] Batch No: [ ] Lot No: [ ] Sub Lot: [ ]
- Sta From: [ ] Sta To: [ ] Samp From: [ ]
- Rdway Side: [ ] Offset Distance: [ ] Offset Direction: Mainline
- Reference Line: [ ] Road No: [ ] Quant Rep: [ ]
- Plant or Pit No: 01-002 QPL Number: [ ] Unit of Measure: [ ]
- Intended Use: [ ] Design Mix No: [ ]
- Matl Description: Chlorides in Concrete
- Submitted By: [ ] of [ ] Phone: [ ]
- Address: [ ]
- Remarks: [ ] (single)

– A simplified screen for chlorides can be designed



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- Sample Entry – 3 steps

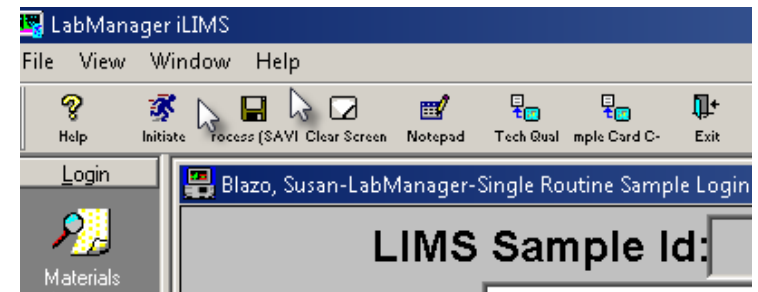
- Fill in fields

- Initiate Sample

- LIMS checks for required fields, formatting, etc.

- Process Sample

- LIMS saves the sample data in the database







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- Sample Receipt – 2 steps
  - Search for Sample Id
  - Receive Sample – click on the icon



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- Sample Receipt

The screenshot displays the LabManager iLIMS interface for a 'Single Sample Receipt'. The main window contains the following data:

- LIMS Sample Id:** 1400024964
- Project ID:** 1909701A101
- Sample No.:** [Empty]
- Notes?:** [Empty]
- Pay Item No.:** N/A
- Matl ID:** PROCL2
- Sample Level:** [Empty]
- Spec Year:** 200901
- Spec Auth:** STD Spec 346
- Material Id on Spec:** PROCL2
- Matl Description:** Chlorides in Concrete
- Destination Lab ID:** DSM001
- Route To:** [Empty]
- Logger ID:** RT820SB
- Process Due Date:** 02/25/2014
- Lab Due Date:** [Empty]
- Batch Number:** [Empty]
- Lot No.:** [Empty]
- Date Sampled:** 12:00 AM 02/25/2014
- Sta From:** [Empty]
- Sta To:** [Empty]
- Manfr or Producer:** [Empty]
- Source (shipped from):** [Empty]
- Rdway Side:** [Empty]
- Offset Distance:** [Empty]
- Offset Direction:** [Empty]
- Mainline:** [Empty]
- Sampled By:** [Empty]
- Samp From:** [Empty]
- Sampler Qual Status:** [Empty]
- Reference Line:** [Empty]
- Plant or Pit No.:** 01-002
- Quant Rep.:** [Empty]
- Unit of Measure:** [Empty]
- Intended Use/Part of Structure Placed:** [Empty]
- Design Mix No.:** [Empty]
- Submitted by:** [Empty]
- of:** [Empty]
- Phone:** [Empty]
- Logger Remarks:** [Empty]
- Strand/Wire:** [Empty]
- Grade:** [Empty]
- Heat:** [Empty]

An inset window titled 'Blazo, Susan-LabManager-Single Sample Receipt' provides a magnified view of the 'LIMS Sample Id' (1400024964) and 'Project ID' (1909701A101) fields.



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- Test Result Entry – Search for Sample to retrieve tests

The screenshot displays the LabManager iLIMS software interface. The window title is "Blazo, Susan-LabManager-Test Result Entry By Sample". The main area is titled "(SCNTE)" and contains several input fields for data entry:

LIMS Sample Id:	<input type="text" value="1400024964"/>	Logger I
Project ID:	<input type="text"/>	Pay Item N
Sample Level:	<input type="text"/>	Spec Authority: <input type="text"/>
Sample No:	<input type="text"/>	Lab II
Sample Date:	<input type="text"/>	Date Receive
Eval Technician ID:	<input type="text"/>	Lot: <input type="text"/>

Below these fields is a section labeled "Logger Remarks".

The left sidebar contains navigation options: Login, Receipt, Result Entry, Test Entry by Sample, Result Entry by Test, IA Checklist, and Copy Test Results. The top menu bar includes File, View, Window, and Help, with a search icon and a search input field.



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- Test Result Entry by Test
  - Performed by field is the actual Tester
  - Date Performed is the date the sample was tested
  - Enter Results
  - Update to save results to database



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FM5-516 FM5-516 Det. Low-Levels of Chloride in Concrete & Raw Mat. Pend

Del Results Entered By:  On  Test Category: CORR

Performed By: TESTER On  Date Tested   Delete

Component:	Limit:	Result	Unit	Lab/Tech	Qual Status:
SampleA	No limits specified	result	lbsyd3		
SampleB	No limits specified	result	lbsyd3		
SampleC	No limits specified	result	lbsyd3		
Avg		result	lbsyd3		
Less, Equal to	0.400				
Range		result	lbsyd3		
UnitWeight		result	lbs		

Instr #:

Comment:

Example of a test – May or may not look like this in LIMS



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- Submit results to database

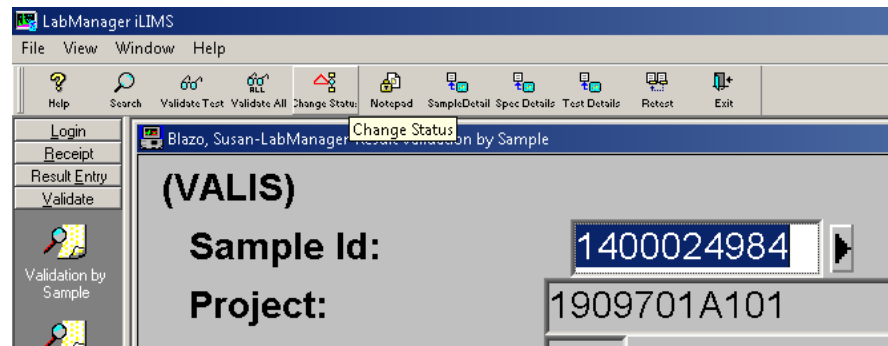
The screenshot shows the LabManager iLIMS software interface. The window title is "LabManager iLIMS". The menu bar includes "View", "Window", and "Help". The toolbar contains icons for Help, Search, Update, Quality Test, Display Calc, Single Calc, All Calc, Add test, Kill Test, Notepad, TIN Qual, Log Corr Facto mple C-22 C, and Exit. The main window displays a form titled "Blazo, Update LabManager-Test Result Entry By Sample". The form contains the following fields:

<b>(SCNTE)</b>			
LIMS Sample Id:	1400024964	Logger ID:	RT
Project ID:	1909701A101	Pay Item No:	N/A
Sample Level:	Q	Spec Authority:	STD Spec 346



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- Validation Stage – For user to check data before submitting the results to FDOT
- If results are in error there's a process to revise the data

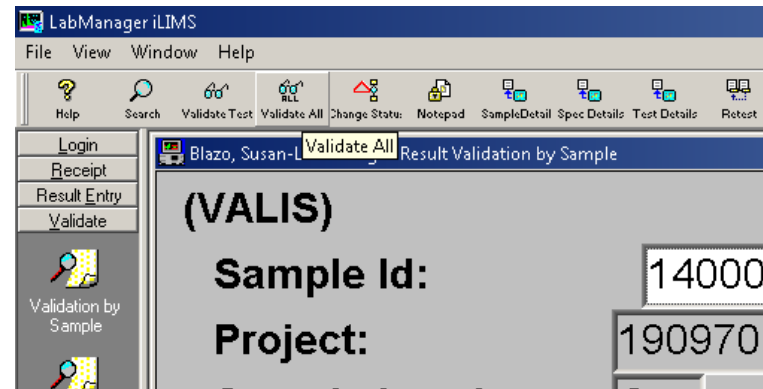




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- Validation Stage – For user to check data before submitting the results to FDOT
- If results are good, just validate all tests to send to approval

Validation is the  
final stage for  
Industry users







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- Approval Stage
  - Performed by someone in FDOT
  - Usually to check data before sample is locked
  - Must be done to “close” the sample in LIMS