

The NELAC-Institute
Laboratory Accreditation Management System

TNI LAMS 2.0

User Manual

01/30/20

Revision 1.2

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Overview

Scope

This document describes the use of The NELAC-Institute Laboratory Accreditation Management System (TNI LAMS) 2.0 by Accreditation Bodies (ABs) and general users. It is not intended to fully document the database structure or web application.

Introduction

TNI LAMS provides a system for tracking environmental laboratory contact information, accreditation status, AB Fields of Recognition (Matrix-Technology combinations) and AB contact information. It also provides data to assist with secondary recognition by Accreditation Bodies (ABs) and provide easily accessible data repository using web-based technology for global access by all stakeholders. The system is also provides a central location for method codes, analyte codes, and technology codes.

Although the underlying database structure remains unchanged from LAMS, LAMS 2.0 web user interface has been completely rewritten. Since the web language used in LAMS was no longer being supported by the server operating system we took the opportunity to update to a more current and reliable script. This also gives us the opportunity to update and provide more options.

TNI standards define both primary and secondary ABs. The Primary AB is the AB that actually performs a laboratory onsite assessment and grants accreditation in accordance with the applicable standards. A Secondary AB is an Accreditation Body that grants approval to an organization based on accreditation by its Primary Accreditation Body. This approval is known as reciprocity and is granted on an organization by organization basis. The standards define duties and responsibilities of both Primary and Secondary ABs in implementing reciprocity. Primary ABs use the TNI database to record any changes in the accreditation status of a laboratory. Secondary ABs will base their reciprocal accreditation on the Primary Accreditation. The primary AB retains responsibility for ensuring that the laboratory complies with applicable standards. Because not all ABs offer the same Fields of Accreditation, it is possible for an organization to have multiple Primary ABs. It is common for organizations to have multiple Secondary ABs.

Accreditation is granted for matrix-method-analyte combinations. The national database tracks both the primary and secondary Accreditation Bodies that awarded the accreditation for each matrix-method-analyte along with the effective date of the accreditation status. Dates are needed in order to track the change in accreditation status and provide subsequent notification of any Secondary AB that has accredited that laboratory.

User Interface

The national database application is Web-enabled, and all access is provided through a current version Web browser installed on the user's workstation. No additional client software is required. This choice yields maximum ease of use because most users should be familiar with using a browser and navigating through pages via links, browser buttons, etc. Queries, data drill down, and preformatted reports are provided.

Manual Data Entry/Manual Data Edit

The data entry portion of the application is available to authorized users who have a valid user ID and password. Data entry pages utilize standard Web input features such as selection lists, radio buttons, and command buttons to guide the user through the input process and offer help on entering valid data and provide error checking to ensure all required fields have been entered.

LAMS provides the AB (after appropriate logon) the ability to:

- Create/Modify Accredited Laboratory
- Create/Modify Accredited Laboratory demographics

Bulk Data Upload

Some states already have automated systems to manage their accreditation programs. Typically, these systems are tailored to specific requirements of the state and often have more functionality than is envisioned for the national database. However, these systems do contain information that must be entered into the national database. Periodic automated loading of updated information from existing databases maintained by NELAP Accreditation Bodies is a functional requirement of the national database.

Several different approaches were considered for bulk data uploading. Because Internet access is a requirement for users of the TNI national database, an electronic method of file transfer is required. Data will not be accepted on physical media. Automated data transfer requires clearly defined data standards that specify the content, format, and order of the data fields being transferred. The system accepts a Text (.CSV) file that is easily produced by the AB and can be readily loaded into the national database using standard data loading tools. These tools provide mechanisms for data validation and verification. A data error report will be generated and include any problems or errors that need to be resolved by the submitter. Only records with errors will not be uploaded. All other records, whether in Lab Demographics or FOA will load successfully. It is up to the AB to make corrections to the file and re-upload or make corrections manually.

It is important to note that stakeholders required that a lab can be set to “inactive” only in the manual mode and not through bulk upload.

Administrative Maintenance Interface

Data administration tasks, which will be the responsibility of the TNI database administrator, are performed via a Web-enabled interface. No direct database access is anticipated for routine data administration tasks. The LAMS database administrator will maintain the login and password table and the Matrix, Technology, Method, and Analyte tables using an interactive Web-based interface. Any data administration on other tables will be performed through direct database access by the DBA.

General User Instructions (things you can do without logging in)

Open browser and enter <http://lams.nelac-institute.org> in the address line. You should see the following screen:

The screenshot shows the TNI LAMS website home page. At the top, there is a blue banner with the text "TNI LAMS National Environmental Laboratory Accreditation Management System" and a green logo for "THE NELAC INSTITUTE" on the right. Below the banner is a navigation bar with links for "Home", "Search", "Help", and "AB Login". The main content area is divided into a left sidebar and a main right section. The sidebar contains sections for "PROGRAMS" (Accreditation Bodies), "TNI CODES" (Analytes, Methods, Matrices, Technologies), and "TNI WEBSITE LINKS" (Home Page, Request Method Code, Request Analyte Code). The main section features a "WELCOME TO THE NELAC INSTITUTE'S NATIONAL ENVIRONMENTAL LABORATORY ACCREDITATION MANAGEMENT SYSTEM" heading, followed by a paragraph about the system's purpose. A "CURRENT STATISTICS" box lists: Accreditation Bodies: 14, Laboratories: 1422, Fields of Accreditation: 55595, Methods: 4151, and Analytes: 3230. Below this is a "Search" button and a "NEW TO LAMS?" section with links to the "LAMS User Manual" and a "LAMS Practical Users Guide webcast". A disclaimer at the bottom states that the information is accurate to the best of their knowledge and that the quality and accuracy of the data is the responsibility of the appropriate Accreditation Body.

You can also get to LAMS from the TNI home page.

TNI LAMS Top Banner

This blue banner with the TNI logo in green appears on each page. Across the top of each page are three links:

Home always brings you back to this home screen.

TNI Website takes you to the TNI home page.

Contact will bring you to the TNI LAMS Contact form. This form can be used to make comments or suggestions about LAMS or ask questions about data or information found in the database. Note that this form is to be used only for LAMS and not for questions about any other part of TNI or the TNI webpage.

Be sure to select “I’m not a robot” before selecting “Continue”.

| [home](#) | [contact](#) | [TNI website](#) |

TNI LAMS

National Environmental Laboratory Accreditation Management System



Home | Search | Help | [AB Login](#)



PROGRAMS

- Accreditation Bodies

TNI CODES

- Analytes
- Methods
- Matrices
- Technologies

TNI WEBSITE LINKS

- Home Page
- Request Method Code
- Request Analyte Code

TNI LAMS Contact Form

Please use this form to contact TNI regarding LAMS issues only. For all other inquiries, please visit the main TNI contact page at <http://nelac-institute.org/contact.php>.

Name *

First Last

Email *

Phone

- -
####

Organization *

Your message: *

I'm not a robot



reCAPTCHA
[Privacy](#) - [Terms](#)

At the bottom of the banner there are another three links:

Home takes you back to the original LAMS home page

Search allows the user to search accredited laboratories. This is the same function as the large blue search button found on the home page. The use is explained in a later section.

Help brings up a short reference page explaining the tables in the left navigation pane.

Search

The screenshot shows the TNi LAMS website interface. At the top, there is a banner with the TNi LAMS logo and navigation links: | home | contact | TNi website |. Below the banner is a navigation bar with Home | Search | Help | and AB Login. The left sidebar contains a menu with the following items:

- PROGRAMS
 - Accreditation Bodies
- TNi CODES
 - Analytes
 - Methods
 - Matrices
 - Technologies
- TNi WEBSITE LINKS
 - Home Page
 - Request Method Code
 - Request Analyte Code

The main content area features a welcome message: **WELCOME TO THE NELAC INSTITUTE'S NATIONAL ENVIRONMENTAL LABORATORY ACCREDITATION MANAGEMENT SYSTEM**. Below this, there is a paragraph: "TNi LAMS is a central repository for information regarding the accreditation status of environmental laboratories." To the right of this paragraph is a box titled **CURRENT STATISTICS** containing the following data:

Accreditation Bodies: 14
Laboratories: 1422
Fields of Accreditation: 55595
Methods: 4151
Analytes: 3230

Below the statistics, there is another paragraph: "A few TNi Accreditation Bodies are still in the process of migrating accreditation data to this database. If you find that FOAs for your lab are missing, you should contact your AB for an update." This is followed by: "To begin, click the Search button below. On the next page, you will be able to choose from a variety of ways to locate laboratories." A large blue button labeled "Search" is circled in red. Below the button is a section titled **NEW TO LAMS?** with the following text: "Read the **LAMS User Manual** ([click to download as PDF](#))". Below this is a paragraph: "Watch the **LAMS Practical Users Guide webcast**. TNi Database Administrator Dan Hickman walks you through all that LAMS has to offer, and provides tips and tricks to get the most out of this valuable resource. [Click here to watch the webcast](#) - it takes just 25 minutes." Below this is another paragraph: "Please use the 'contact' option at top-right to be directed to a form on which you can ask questions about database use, the data, or to offer suggestions for making the application more useful." At the bottom of the page is a disclaimer: "Disclaimer: All information obtained through TNi LAMS is accurate to the best of our knowledge. The quality and accuracy of the data is the responsibility of the appropriate Accreditation Body."

Selecting the big blue "Search" button on the home page or selecting "search" from the menu bar takes you to a page that allows you to search for a lab using a variety of filters.

The screenshot shows the TNI LAMS search interface. At the top, there's a header with the TNI LAMS logo and navigation links: | home | contact | TNI website |. Below the header is a secondary navigation bar with Home | Search | Help | and AB Login. The main content area is divided into a left sidebar and a central search form. The sidebar includes sections for PROGRAMS (Accreditation Bodies), TNI CODES (Analytes, Methods, Matrices, Technologies), and TNI WEBSITE LINKS (Home Page, Request Method Code, Request Analyte Code). The search form, titled SEARCH, contains the following fields and filters:

- Lab Name: Text input field
- TNI Lab Code: Text input field
- Lab Location State: Dropdown menu (Any)
- Accreditation Body: Dropdown menu (Any)
- Accept Commercial Samples: Dropdown menu (All)
- Is Active: Dropdown menu (Yes)
- Matrix: Dropdown menu (Any)
- Method: Dropdown menu (Any)
- Method Revision: Dropdown menu (Any)
- Analyte: Dropdown menu (Any)

A Search button is located at the bottom of the form.

LAMS only allows a single filter in the upper section of the search. You can enter any part of the Lab Name or TNI Lab Code but not any of the other filters. If the lab name and TNI Lab Code are left blank, you may drop down the state in which the lab is located, and/or select whether the lab Accepts Commercial Samples and/or whether the lab is Active/Not Active/All. These filters work on the entire list of labs regardless of whether or not accreditations are listed.

Dropping down and selecting a specific AB will limit the search to those labs holding a current Field of Accreditation (FOA) from one of the Accreditation Bodies. So if a lab is listed under the search but not when an AB is selected, then the AB has not entered any FOA records for that lab.

The lower section of the search allows you to further refine the search by entering any part of the matrix, method, method revision, and/or analyte. Multiple filters are allowed in this section.

Be sure to select “Search” at the bottom of the page to apply the filters.

You will be presented with a list of labs that meet the criteria. Leaving all search fields blank will bring up an entire list of active labs.

TNI LAMS
National Environmental Laboratory
Accreditation Management System

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[Home](#) | [Search](#) | [Help](#) |

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PROGRAMS

Accreditation Bodies

TNI CODES

Analytes

Methods

Matrices

Technologies

TNI WEBSITE LINKS

Home Page

Request Method Code

Request Analyte Code

SEARCH RESULTS

Name	City	State	TNI Lab Code
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
809 Maintenance Support Squadron - Science and Engineering Laboratory	Hill AFB	Utah	TNI01949
A & B Environmental Services, Inc.	Houston	Texas	TNI00025
A & E Analytical Laboratory, Inc.	Wichita	Kansas	TNI01941
A & P WATER TESTING	MORRISVILLE	New York	TNI01892
A.L.A.C.-ASBESTOS & LEAD ABATEMENT CORP.	NEW YORK	New York	TNI01731
A.W. Research Laboratories, Inc.	Brainerd	Minnesota	TNI01083
AbbVie Environmental, Health and Safety Laboratory	Abbott Park	Illinois	TNI02017
ABC Research Holdings, LLC	Gainesville	Florida	TNI00245
Abilene - Taylor County Public Health District	Abilene	Texas	TNI00110
ABSOLUTE HOME INSPECTION, INC	BALDWINVILLE	New York	TNI01815
ABSOLUTE RESOURCE ASSOCIATES LLC	PORTSMOUTH	New Hampshire	TNI01081
AC Analytical & Consulting LLC	Puposky	Minnesota	TNI01127
ACCREDITED ANALYTICAL RESOURCES LLC	CARTERET	New Jersey	TNI01852
ACCURATE ANALYTICAL TESTING, LLC	BELLEVILLE	Michigan	TNI01818
Accurate Environmental Laboratories, LLC	Stillwater	Oklahoma	TNI01938
ACCURATE ENVIRONMENTAL LABORATORY LLC	OKLAHOMA CITY	Oklahoma	TNI02407
ACCUSTAR LABS - MEDWAY	MEDWAY	Massachusetts	TNI01778
Accutest Gulf Coast Laboratories - Louisiana	Scott	Louisiana	TNI01404
Accutest Laboratories of New England	Marlborough	Massachusetts	TNI00246
Accutest Laboratories Southeast, Inc.	Orlando	Florida	TNI00247

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1
2
3
4
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6
7
8
9
10
...
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Page size:

1401 items in 71 pages

Note that as in all the tables, you can select the number of records to display by using the dropdown box at the bottom of the table. You can select a particular page, go 1 page forward or backward or move directly to the beginning or the end.

Each column can be sorted by selecting the header for that column. Each column can also be filtered by entering any part of the record and selecting the search symbol.

Selecting “Save to Excel” will generate a CSV file using the filtered data in this table.

Once you select a lab you will go to the lab information page where the lab demographics are located.

The screenshot shows the TNI LAMS interface. The top navigation bar includes links for home, contact, and the TNI website. The main header displays the TNI LAMS logo and the text 'National Environmental Laboratory Accreditation Management System'. The sidebar on the left contains a search bar and several menu categories: PROGRAMS (Accreditation Bodies), TNI CODES (Analytes, Methods, Matrices, Technologies), and TNI WEBSITE LINKS (Home Page, Request Method Code, Request Analyte Code). The main content area is titled 'VIEW LAB' and is divided into three sections: Basic Details, Extended Details, and Location Address. The Basic Details section lists information such as Name (ABSOLUTE RESOURCE ASSOCIATES LLC), Type of Lab (Commercial), TNI Lab Code (TNI01061), EPA Code (NH00902), State ID (1732), and Website (www.absoluteresourceassociates.com). The Extended Details section includes Primary AB responsible for lab demographics (New Hampshire ELAP), GIS Location, Description, Comments, Effective Date (n/a), Commercial Samples (Yes), and Active status (Yes). The Location Address section provides contact information for SUE SYLVESTOR, including two addresses (124 HERITAGE AVE, UNIT 16), City (PORTSMOUTH), State (New Hampshire), Zip (3801), Country (US), Phone (6034362001), Fax (6034302100), and Email (SUES@ABSOLUTERESOURCEASSOCIATES.COM). At the bottom of the lab details, there are two buttons: 'Go to Fields of Accreditation' (highlighted with a red circle) and 'Edit'.

To view the Fields of Accreditation select “Go to Fields of Accreditation”. You will be presented with a complete view of all FOAs for the selected lab, including Primary and Secondary accreditations from all ABs.



SHOW LAB ACCREDITATION

Matrix	Method	Analyte	Status	AB
Drinking Water	EPA 200.7	Aluminum	Accredited	NH
Drinking Water	EPA 200.7	Antimony	Accredited	NH
Drinking Water	EPA 200.7	Arsenic	Accredited	NH
Drinking Water	EPA 200.7	Barium	Accredited	NH
Drinking Water	EPA 200.7	Beryllium	Accredited	NH
Drinking Water	EPA 200.7	Boron	Accredited	NH
Drinking Water	EPA 200.7	Cadmium	Accredited	NH
Drinking Water	EPA 200.7	Calcium	Accredited	NH
Drinking Water	EPA 200.7	Chromium	Accredited	NH
Drinking Water	EPA 200.7	Copper	Accredited	NH
Drinking Water	EPA 200.7	Iron	Accredited	NH
Drinking Water	EPA 200.7	Lead	Accredited	NH
Drinking Water	EPA 200.7	Magnesium	Accredited	NH
Drinking Water	EPA 200.7	Manganese	Accredited	NH
Drinking Water	EPA 200.7	Molybdenum	Accredited	NH
Drinking Water	EPA 200.7	Nickel	Accredited	NH
Drinking Water	EPA 200.7	Potassium	Accredited	NH
Drinking Water	EPA 200.7	Selenium	Accredited	NH
Drinking Water	EPA 200.7	Silver	Accredited	NH
Drinking Water	EPA 200.7	Sodium	Accredited	NH

Page size:

927 items in 47 pages

Each column can be sorted by selecting the header for that column. Each column can also be filtered by entering any part of the record and selecting the search symbol.

Selecting “Save to Excel” will generate a CSV file using the filtered data in this table. Once the file has been downloaded, it can be opened in Excel or Access and then sorted and filtered to meet the needs of the user.

If you select a particular FOA, you will be taken to the FOA information page containing information about that specific FOA including the dates it was first created and last updated. It also displays the effective date and the date the FOA will expire.

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PROGRAMS

Accreditation Bodies

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TNI WEBSITE LINKS

Home Page

Request Method Code

Request Analyte Code

SHOW LAB ACCREDITATION DETAILS

Field of Accreditation

Matrix Drinking Water

Method EPA 200.7

Analyte Lead

Status Accredited

Updates

Record Created Dec 12, 2016

Record Updated Dec 12, 2016

Record Effective Apr 28, 2008

Record Expires Jan 25, 2017

Left Navigation Panel

On the left side of each page under the TNI logo are links to important tales in LAMS. Each one is described below.

PROGRAMS

Accreditation Bodies

Selecting “**Accreditation Bodies**” takes you the table listing TNI recognized Accrediting Bodies.



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PROGRAMS

Accreditation Bodies

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Home Page

Request Method Code

Request Analyte Code

ACCREDITATION BODIES

Type	Name	City	State	Phone
SAB	Florida Department of Health Environmental Laboratory Certification Program	Jacksonville	FL	904-791-1599
SAB	Illinois Environmental Laboratory Accreditation Program (IL ELAP)	Springfield	IL	217-785-0601
SAB	Kansas Department of Health and Environment	Topeka	KS	785-296-3811
SAB	Louisiana Department of Health & Hospitals Laboratory Certification Program	Baton Rouge	LA	225-219-5247
SAB	Louisiana Environmental Laboratory Accreditation Program	Baton Rouge	LA	225-219-3247
SAB	Minnesota Dept of Health, Environmental Laboratory Accreditation Program	St Paul	MN	218-332-5164
SAB	New Hampshire ELAP	Concord	NH	603-271-2998
SAB	NJDEP Office of Quality Assurance	Trenton	NJ	609-292-3950
SAB	NY Environmental Laboratory Approval Program (ELAP)	Albany	NY	518-485-5570
SAB	Oregon Environmental Laboratory Accreditation Program	Hillsboro	OR	503-693-4122
SAB	PA-DEP, Laboratory Accreditation Program	Harrisburg	PA	717-346-7200
SAB	Texas Commission on Environmental Quality	Austin	TX	512-239-3927
SAB	Utah Department of Health	Taylorsville	UT	801-965-2400
SAB	Virginia Division of Consolidated Laboratory Services	Richmond	VA	804-648-4480

Key to Accreditation Body Types
 GAB = Government Accrediting Authority
 NGAB = Non-Government Accrediting Authority
 SAB = State Accrediting Authority

Note the addition of Accreditation Body Type.

Selecting a specific AB will take you to the AB information page.

The screenshot shows the TNI LAMS website interface. At the top, there is a navigation bar with links for 'home', 'contact', 'TNI website', and 'AB Login'. The main header includes the TNI LAMS logo and the text 'National Environmental Laboratory Accreditation Management System'. A sidebar on the left contains a menu with categories: PROGRAMS (Accreditation Bodies), TNI CODES (Analytes, Methods, Matrices, Technologies), and TNI WEBSITE LINKS (Home Page, Request Method Code, Request Analyte Code). The main content area is titled 'ACCREDITATION BODY' and is divided into three sections: 'Location Details', 'Contact Details', and 'Program Manager'. The 'Location Details' section lists the following information: Name: Minnesota Dept of Health, Environmental Laboratory Accreditation Program; Street 1: 601 Robert Street North; Street 2: ; City: St Paul; State: Minnesota; Zip: 55155; P.O. Box: 64899; P.O. Box Zip: 55164-0899; County: Ramsey; EPA Region: 5; AB Type: State Accrediting Authority. The 'Contact Details' section lists: Phone: 218-332-5164; Fax: 218-332-5196; Email: lynn.boysen@state.mn.us; Website: www.health.state.mn.us/accreditation. The 'Program Manager' section lists: Name: Lynn Boysen. At the bottom of the main content area, there is a button labeled 'Go to Recognitions'.

At the bottom of the page is a link “Go to Recognitions” which will bring up a page that describes the matrix/technology for which the AB grants accreditation.



PROGRAMS

Accreditation Bodies

TNI CODES

Analytes

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TNI WEBSITE LINKS

Home Page

Request Method Code

Request Analyte Code

ACCREDITATION BODY

Recognitions

Name	Description	A	DW	NPW	S	BT
AS	Alpha Spectrometry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AUTO	Auto Analyzer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BETA	Beta Spectrometry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BioTox	Toxicity Testing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
C-QN	Chromogenic/MPN - Quantitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C-QT-QN	Chromogenic - Quantitray	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CF-QL	Chromofluorogenic - Qualitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CF-QN	Chromofluorogenic - Quantitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
COND	Conductance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COUL	Coulometric Titration	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CVAAS	Atomic Absorption - Cold Vapor Spectrometry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CVAFS	Atomic Fluorescence - Cold Vapor Spectrometer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DCP-AES	Atomic Emission - Direct Current Plasma Spectrometer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F-QN	Fluorogenic/MPN - Quantitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F-QT-QN	Fluorogenic - Quantitray	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FAAS	Atomic Absorption - Flame Spectrometer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FAES	Atomic Emission - Flame Spectrometer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FB-A1-QN	Fermentation Broth(A-1) - Quantitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FB-F-QL	Fermentation Broth+Fluorogenic - Qualitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

TNI CODES

Analytes

Selecting “**Analytes**” brings up a copy of the analyte table where you can search/filter by:

- Analyte Code
- Analyte name or part of a name
- CAS Number
- Type (Group by Category)
- Active [default], Inactive, or All):

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Request Method Code

Request Analyte Code

ANALYTES

Type: All ▼ Active: Yes ▼

TNI Code	Analyte	CAS Number	Type
3205	# Eggs/Egg Case	NA	WET
6703	1,1'-Biphenyl (BZ-0)	92-52-4	SVOC-BNA
5166	1,1'-Oxybis-2-propanol	110-98-5	SVOC-NOS
5105	1,1,1,2-Tetrachloroethane	630-20-6	VOC
5162	1,1,1,3,3-Pentachloropropane	23153-23-3	SVOC-NOS
5164	1,1,1-Tribromo-2-methylpropan-2-ol	76-08-4	SVOC-NOS
5195	1,1,1-Trichloro-2,2,2-trifluoroethane (Freon 113a)	354-58-5	VOC
5190	1,1,1-Trichloro-2-propanone	918-00-3	VOC
5160	1,1,1-Trichloroethane	71-55-6	VOC
5161	1,1,1-Trifluoroethane	420-46-2	VOC
5110	1,1,2,2-Tetrachloroethane	79-34-5	VOC
5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	VOC
5165	1,1,2-Trichloroethane	79-00-5	VOC
5167	1,1,2-Trichlorofluoroethane	811-95-0	VOC
5172	1,1,2-Trifluoroethane	430-86-0	VOC
5168	1,1,2-Trimethylcyclohexane	7094-26-0	SVOC-NOS
5169	1,1,4-Trimethylcyclohexane	7094-27-1	SVOC-NOS
5171	1,1-Dichloro-1-fluoroethane	1717-00-6	VOC
5173	1,1-Dichloro-2-propanol		VOC
7450	1,1-Dichloro-2-propanone	513-88-2	SVOC-Pesticides

⏪ ⏩ 1 2 3 4 5 6 7 8 9 10 ... ⏪ ⏩

Page size: 20 ▼

3230 items in 162 pages

Save to Excel

At the bottom of the page you can select a specific page or the number of records to display per page.

If you filter by Type, only analytes in that category will be displayed. This is meant to provide an easier way to locate analytes but the type is not intended to define a specific parameter. For example, 1,4-Dichlorobenzene

Selecting “**Save to Excel**” will generate an Excel file using the filtered data in this table. Once the file has been downloaded, it can be opened in Excel or Access and then sorted and filtered to meet the needs of the user.

Selecting a specific analyte will take you to the analyte information page where you will find the date it was added to LAMS, last updated (changed), and last uploaded:

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ANALYTE DETAILS

Basic Details	Extended Details
Code	5167
Analyte	1,1,2-Trichlorofluoroethane
CAS Number	811-95-0
Type	VOC
Link to NIST Webbook	Click here
Date Added to LAMS	Jan 01, 2008
Last Updated	Jan 23, 2017
Last Uploaded	Jan 23, 2017
Active	<input checked="" type="checkbox"/>

Selecting “**Link to NIST Webbook**” displays the chemical page from NIST



Search ▾

NIST Data ▾

About ▾

Ethane, 1,1,2-trichloro-1-fluoro-

- **Formula:** C₂H₂Cl₃F
- **Molecular weight:** 151.395
- **IUPAC Standard InChI:**
 - InChI=1S/C2H2Cl3F/c3-1-2(4,5)6/h1H2
 - [Download the identifier in a file.](#)
- **IUPAC Standard InChIKey:** ZKVMMSGRDBQIOQ-UHFFFAOYSA-N
- **CAS Registry Number:** 811-95-0
- **Chemical structure:**



InChI TRUST
CERTIFIED
2011

This structure is also available as a [2d Mol file](#)

- **Other names:** 1,1,2-Trichloro-1-fluoroethane
- **Permanent link** for this species. Use this link for bookmarking this species for future reference.
- **Information on this page:**
 - [Notes](#)
- **Other data available:**
 - [Phase change data](#)
 - [Mass spectrum \(electron ionization\)](#)
- **Data at other public NIST sites:**
 - [Gas Phase Kinetics Database](#)
- **Options:**
 - [Switch to calorie-based units](#)

Methods

Selecting “Methods” brings up a copy of the method table where you can search by:

- Method Code
- Reference
- Method Name
- Method Revision
- Approved for use under 40 CFR Part 136
- Approved for use under 40 CFR Part 141 and 143
- Contained in SW-846 Update III
- Contained in SW-846 Update IV
- Contained in SW-846 Update V
- Active (Default)/Inactive/All



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TEST METHODS

Part 136: Part 141: Active:
 SW-846 Update III: SW-846 Update IV: SW-846 Update V:

TNI Code	Method	Revision	Revision Date	Name
80028004	3M 76-8900-3715-1(85.2)R1 Empore (TM) Disk		1994	Organochlorine Pesticides and PCBs in Wastewater Using Empore (TM) Disk
80028059	3M0222 (EPA 808 ATP)		1995	Organochlorine Pesticides and PCBs in Wastewater Using 3M Empore Extraction Disks
10000154	40 CFR 141.131 (D)(4)		FR	Specific Ultraviolet Absorbance Calculation
10000304	40 CFR Part 50 Appendix B		FR	Suspended Particulate Mater in Atmosphere (High Volume Method)
10000405	40 CFR Part 50 Appendix G		FR	Lead in Suspended Particulate Matter
10000507	40 CFR Part 50 Appendix J		FR	Particulate Matter as PM10 in the Atmosphere
10000709	40 CFR Part 50 Appendix L		FR	Fine Particulate Matter as PM2.5 in the Atmosphere
10000745	40 CFR Part 50 Appendix O		FR	Coarse Particulate Matter as PM10-2.5 in the Atmosphere
10000734	40 CFR Part 50 Appendix Q		FR	Lead in Particulate Matter as PM10
10000778	40 CFR Part 783 Sub E, Appendix A		FR	Asbestos by TEM
80000502	Absolute SOP QA-801			Incremental Sampling for Soils
80001209	ADPEN SOP #6.5			ADPEN Labs - Atrazine, Metolachlor, and Simazine by HPLC-MS-MS
80001403	AEL MET-017	3		Advanced Environmental Laboratories - Metals except Hg by EPA 200.8 ICP-MS
80001807	AES SOP QA-11010			Analytical Environmental Services - EPA 8280 by GC-MS
80001852	AES0029		1991	Trace Elemental Analysis of Water and Wastes by Direct Current Plasma Optical Emission Spectrometry
10000825	AHERA		2009	Asbestos Hazard Emergency Response Act, TSCA
90015159	AK101 GRO-MS		2002	Determination of Gasoline Range Organics by GC/MS - Alaska Department of Environmental Conservation
90015208	AK102 DRO		2002	Determination of Diesel Range Organics - Alaska Department of Environmental Conservation
90015228	AK102 DRO-SV		2002	Determination of Diesel Range Organics Small Volume - Alaska DEC
90015400	AK103 RRO		2002	Determination of Residual Range Organics - Alaska Department of Environmental Conservation

Page size:

4134 items in 207 pages

You can sort by any column by clicking the column header and you can select up to 100 records to display per page.

Selecting “**Save to Excel**” will generate an Excel file using the filtered data in this table. Once the file has been downloaded, it can be opened in Excel or Access and then sorted and filtered to meet the needs of the user. The file contains the following fields:

- TNI Method Code
- Method
- Method Revision
- Revision Date
- Method Short Name
- Technology
- Official Method Title
- Method Source
- Citation
- Approved for use under 40 CFR Part 136
- Approved for use under 40 CFR Part 141 and 143
- Contained in SW-846 Update III
- Contained in SW-846 Update IV
- Contained in SW-846 Update V
- Date Created
- Date Updated
- Last Uploaded
- Active (Default)/Inactive/All

Selecting a specific method will take you to the method information page where you will also find the official method title, the analytic technology, the citation, and the method source. It also shows date it was added to LAMS, last updated (changed), and last uploaded:



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METHOD DETAILS

Basic Details

Code	10275602
Name	Anions by Ion Chromatography
Reference	EPA 300.1
Title	Determination of Inorganic Anions in Drinking Water by Ion Chromatography
Revision	1.0
Rev Date	1997
Citation	40 CFR Part 136
Technology	Ion Chromatography Electroconductivity
Method Source	Methods for the Determination of Inorganic Substances in Environmental Samples EPA/600/R-93/100
PDF	10275602.pdf

Extended Details

Part 136	<input checked="" type="checkbox"/>
Part 141	<input type="checkbox"/>
SW846-III	<input type="checkbox"/>
SW846-IV	<input type="checkbox"/>
SW846-V	<input type="checkbox"/>
Date Added to LAMS	Jan 01, 2008
Last Updated	Mar 29, 2019
Last Uploaded	Mar 29, 2019
Active	<input checked="" type="checkbox"/>

Method Compendium

If a copy of the method has been archived, a link to the PDF will appear on this information page. Selecting it will download the PDF version of the method to your computer. LAMS maintains copies of active, inactive and legacy methods for reference and comparison. Methods are continually being added as they become available. Note that some methods are proprietary, and in that case the link will lead back to the source where the method can be obtained.

Associated Analytes

If you are logged in as a TNI member a list of analytes associated with the method will be displayed. These are accredited method-analyte combinations uploaded to LAMS.

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METHOD DETAILS

[Edit Method](#)

Basic Details

Code 10275602
 Name Anions by Ion Chromatography
 Reference EPA 300.1
 Title Determination of Inorganic Anions in Drinking Water by Ion Chromatography
 Revision 1.0
 Rev Date 1997
 Citation 40 CFR Part 136
 Technology Ion Chromatography Electroconductivity
 Method Source Methods for the Determination of Inorganic Substances in Environmental Samples EPA/600/R-93/100
 PDF [10275602.pdf](#)

Extended Details

Part 136
 Part 141
 SW846-III
 SW846-IV
 SW846-V
 Date Added to LAMS Jan 01, 2008
 Last Updated Mar 29, 2019
 Last Uploaded Mar 29, 2019
 Active

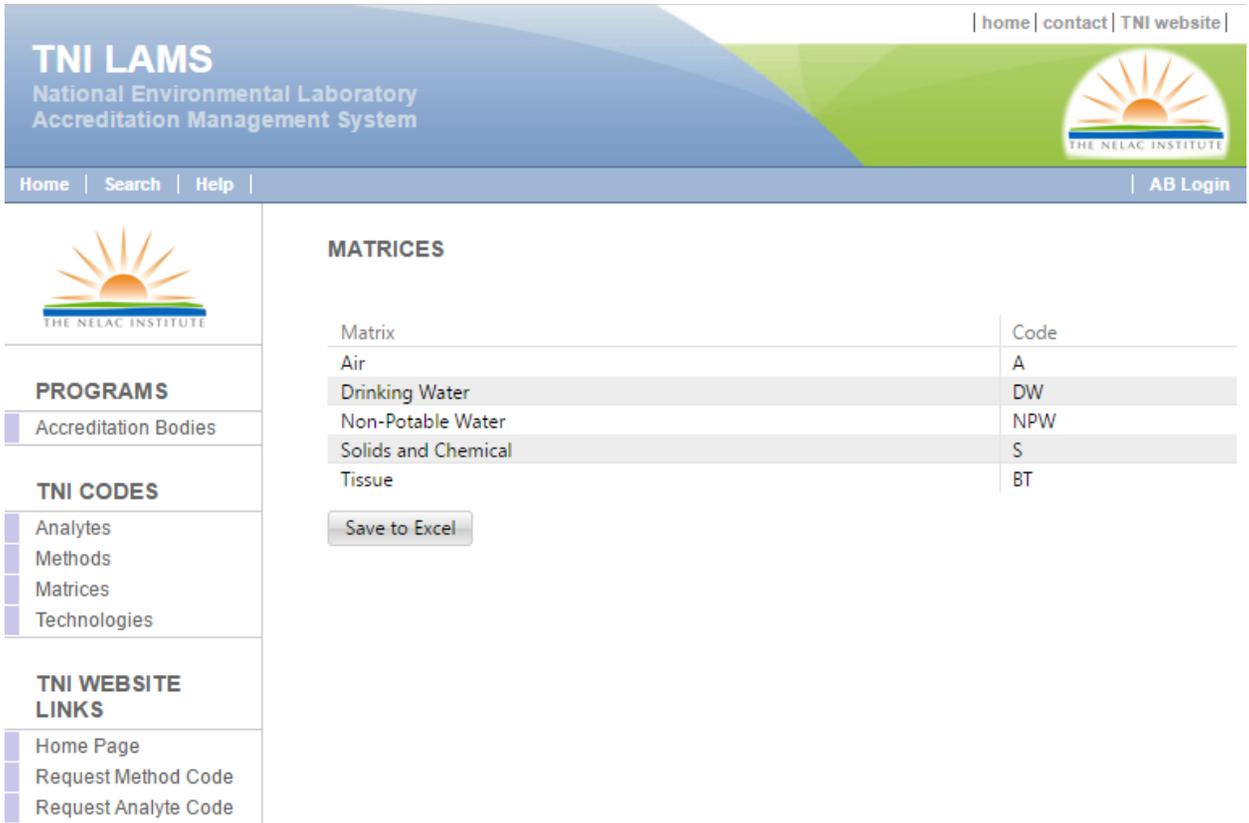
This method has been associated with the following analytes:

TNI Code	Analyte	CasNumber	Type
1535	Bromate	15541-45-4	Non-Metal Inorganics
1540	Bromide	24959-87-9	Non-Metal Inorganics
1570	Chlorate	7790-93-4	Non-Metal Inorganics
1575	Chloride	16887-00-6	Non-Metal Inorganics
1595	Chlorite	NA	Non-Metal Inorganics
1730	Fluoride	16984-48-8	Non-Metal Inorganics
1810	Nitrate as N	NA	Non-Metal Inorganics
1820	Nitrate plus nitrite as N	NA	Non-Metal Inorganics
1840	Nitrite as N	NA	Non-Metal Inorganics
1870	Orthophosphate as P	264888-19-9	Non-Metal Inorganics
2000	Sulfate	14808-79-8	Non-Metal Inorganics

[Save to Excel](#)

Matrices

Selecting “**Matrices**” brings up a copy of the matrix table showing the TNI accreditation matrices and their code (mainly used by ABs)



The screenshot shows the TNI LAMS website interface. The header includes the site name and navigation links. A sidebar on the left contains a menu with categories like PROGRAMS, TNI CODES, and TNI WEBSITE LINKS. The main content area displays a table of matrices with columns for Matrix and Code, and a 'Save to Excel' button below it.

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MATRICES

Matrix	Code
Air	A
Drinking Water	DW
Non-Potable Water	NPW
Solids and Chemical	S
Tissue	BT

Save to Excel

Selecting “**Save to Excel**” will generate an Excel file using the filtered data in this table.

Technologies

Selecting “**Technologies**” brings up a copy of the technology table showing the TNI accreditation technologies, their codes (mainly used in the method code table) and their scientific discipline.



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THE NELAC INSTITUTE

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TECHNOLOGIES

Name	Description	Scientific Discipline
ASC	Alpha Scintillation Cell Counter	Radiochemistry
AS	Alpha Spectrometry	Radiochemistry
AMP	Amperometric Titration	Inorganic Chemistry
ASV	Anodic Stripping Voltameter	Inorganic Chemistry
CVAAS	Atomic Absorption - Cold Vapor Spectrometry	Inorganic Chemistry
FAAS	Atomic Absorption - Flame Spectrometer	Inorganic Chemistry
GFAAS	Atomic Absorption - Graphite Furnace Spectrometer	Inorganic Chemistry
HGAAS	Atomic Absorption - Hydride Generation Spectrometer	Inorganic Chemistry
DCP-AES	Atomic Emission - Direct Current Plasma Spectrometer	Inorganic Chemistry
FAES	Atomic Emission - Flame Spectrometer	Inorganic Chemistry
ICP-AES	Atomic Emission - Inductively Coupled Plasma Spectrometer	Inorganic Chemistry
CVAFS	Atomic Fluorescence - Cold Vapor Spectrometer	Inorganic Chemistry
AUTO	Auto Analyzer	Inorganic Chemistry
BETA	Beta Spectrometry	Radiochemistry
BGCS	Beta/Gamma Coincidence Scintillation Counter	Radiochemistry
CALC	Calculation	Miscellaneous
CAL	Calorimetric (Temperature, Flash Point, etc)	Inorganic Chemistry
CE-UV	Capillary Electrophoresis - Ultraviolet/Visible Molecular Absorption	Inorganic Chemistry
CF-QL	Chromofluorogenic - Qualitative	Microbiology
CF-QN	Chromofluorogenic - Quantitative	Microbiology
C-QT-QN	Chromogenic - Quantitray	Microbiology
C-QN	Chromogenic/MPN - Quantitative	Microbiology
COND	Conductance	Inorganic Chemistry
COUL	Coulometric Titration	Inorganic Chemistry

Selecting “**Save to Excel**” will generate an Excel file. Once the file has been downloaded, it can be opened in Excel or Access and then sorted and filtered to meet the needs of the user.

TNI WEBSITE LINKS

Home Page

Selecting "**Home Page**" brings you to the TNI homepage, not the LAMS homepage.

Request Method Code

Selecting "**Request Method Code**" brings up a form to request the addition of a new method to the method table and creation of a TNI Method Code. Be sure to check the method table carefully before requesting addition of a new method.

Request Analyte Code

Selecting "**Request Analyte Code**" brings up a form to request the addition of a new analyte to the analyte table and creation of a TNI Analyte Code. Be sure to check the analyte table carefully before requesting addition of a new analyte.

