SHL’s OpenELIS Web Portal has been redesigned to afford easier access to test results regardless of the type of sample (environmental, safe drinking water, private well, clinical, animal, maternal screen, or neonatal screening.) The new OpenELIS Web Portal features the following enhancements:

- All of your organization’s test results can now be downloaded by using the Final Report screen.
- The functionality to download your results into a spreadsheet has also been expanded to all types of samples.
- Clinical test results for samples that were received at SHL beginning on March 1, 2015 are located in OpenELIS.
- Rabies test results for samples that were received at SHL beginning on November 1, 2016 are located in OpenELIS.
- Maternal screen test results for samples that were received at SHL beginning on June 20, 2017 are located in OpenELIS.
- A filter can now be added that allows the user to only receive email notifications for samples that she collects, where she is the provider, or that have a specific Client Reference.
- Sample attachments (test request forms, previous revisions of final reports, copies of email correspondence, laboratory instrument output, etc.) are now available through the Final Report screen.

Neonatal screening results will still be located in the Neonatal Screening web portal until this testing is transitioned into OpenELIS.

Logging in

- Go to the State Hygienic Laboratory at The University of Iowa’s web site at www.shl.uiowa.edu.
- Click on the green Test Results button on the left-hand side.
- Click on the green OpenELIS button.
- Login using your username and password. (This is a secure site. Your username and password are encrypted as they are sent for authorization.)
- If you use a shared computer, please click the Logout button in the top right corner and then exit the browser after completing your session.
- Supported web browsers are recent versions of: Firefox, Chrome, Safari, Internet Explorer.

Message of the Day

- The Message of the Day is displayed upon login. It contains important announcements regarding the OpenELIS Web Portal.
- You can click on the orange SHL logo anytime that you wish to return to this page.
Searching for Your Final Reports

- Click on the Final Report icon.
- You only need to enter information in one field to conduct a search for your results. Example fields include: Collected Date, Accession Number, Collector or Patient’s Last Name. (See Figures 1 and 2.)

  It is recommended that you use the calendar to the right of each date field when entering a date to eliminate any formatting errors. You must click out of the calendar to enter the selected date. All dates have the format of YYYY-MM-DD. Released Date also includes the time in the format of YYYY-MM-DD HH:MM.

- You may also narrow your search by entering information in multiple fields. For example, to find all of the samples that you collected and sent to the laboratory in June of 2014, enter your name (as it appeared on the collection form) in the Collector field and select (using the calendars provided) 2014-06-01 in the Collected Date field and 2014-06-30 in the To field.

- A search may also be limited to one or more projects or reporting organizations. If these fields are left empty, all samples to which you are authorized will be displayed regardless of their reporting organization or whether they have an assigned project.

- The system supports wild card searches in the following fields: Client Reference, Collector, PWS ID, Patient’s First Name and Patient’s Last Name. To use this search method add an * at the beginning and/or end of your search term. Below are three examples:
  
  o To see a list of reports for a patient whose last name starts with the letters schm, enter schm* in the Patient’s Last Name field. Matches would include: schmidt, schmitt, schmitz, etc.
  
  o To see a list of reports for a patient whose first name ends with the letters jo, enter *jo in the Patient’s First Name field. Matches would include: betty jo, bettyjo, jo, etc.
  
  o To see a list of reports for samples with a collector name of buck, enter *buck* in the Collector field. Matches would include: joseph buck, joe buck, j buck, buck joseph, buck joe, buck j, etc.

- Enter the Patient’s Date of Birth in this field to search by that information. You must enter an ending date in the To field to search for a range of birth dates.

- Click on the Tool Tip to the right of each field to view information about the use and format of that field.

- Click the Find Samples button to display a list of samples that match your search criteria. The Reset button clears all of the search fields.
Viewing Your Final Reports

- A list of final reports that match your search criteria will be displayed on the next screen. (See Figure 3.)
- To view all reports of the listed samples, click on the Select All button, and then the Run Report button.
- To view specific reports, check the boxes in front of their Accession Numbers, and then click the Run Report button.
- The PDF reports of the selected samples will pop up. You may view, save, or print your PDF reports.
- The following are descriptions of each column on this screen.

**Accession Number:** The lab number assigned to the sample by the laboratory.

**Collected Date:** The date and time that the sample was collected. All dates and times have the format of YYYY-MM-DD HH:MM.

**Reference Information:** This information can be helpful in identifying a sample. The patient's name is usually displayed for clinical samples. The collector's name is usually displayed for environmental, safe drinking water, and private well samples. The type of animal is displayed for animal samples (e.g., rabies testing).

**Additional Information:** This information can also be useful in identifying a sample. The collection location, address, and city (if submitted) are displayed for environmental and private well samples. The collection location (if submitted) and PWS ID-PWS Name are displayed for safe drinking water samples. The health care provider's/veterinarian's/public health professional's name (if submitted) and the submitting organization are displayed for clinical and animal samples.

**Status:** The sample's status is shown here. "In Progress" samples have one or more tests that are not yet complete and at least one test that is finished. The finished test's results are currently available on the Final Report. "Completed" samples have finished testing and all of their results are available on the Final Report.

**Project:** The name of the project that has been assigned to the sample. A project can be used to group samples with a similar purpose.

**Attachments:** The number of documents attached to each sample (if any) are shown in this column. First, click on the number to display the list of attachments. (See Figure 4.) Next, click on the attachment that you want to display. Attachments may include the test request form (begins with the prefix "TRF"), previous revisions of final reports (begin with the prefix "FinalReport"), copies of email correspondence, send-out lab reports, and laboratory instrument output.
Spreadsheet View

- The Spreadsheet View option will display your results in a spreadsheet that you can sort and filter. It can be used to compare results from the same sampling location or the same patient over time, among other things. Click on the Spreadsheet View icon.
- The first step is to search for the results that you would like to be displayed in the spreadsheet. The Spreadsheet View search screen works the same way as the one for final reports. See Searching for Your Final Reports for suggestions on how to conduct a search.
- After entering your search information, click the Continue to Report Fields button. The Reset button clears all of the search fields.
- The next page will display groups of fields containing sample, organization, analysis, patient, and other information which you can select to be displayed as columns in your spreadsheet. (See Figure 5.) This screen also shows all of the test analytes and auxiliary data that matches your search criteria. You need to select at least one Test Analyte or Auxiliary Data field to run the report. You can use the Select All buttons if you want to view all of the available information in a group.
• The **Show single row per test** option allows all of the analyte values and auxiliary data for a test to be displayed as a single row on the spreadsheet.

• Click the **Run Report** button to pop up the spreadsheet containing all of the data that you selected. You may view, save, or print your spreadsheet reports. (See Figure 6.)

![Figure 5 Selecting Fields to Output to Your Spreadsheet](image)

### Figure 5 Selecting Fields to Output to Your Spreadsheet

#### Disclaimer

Results from the **Spreadsheet View** represent analytical values as of the date they are generated. Future revisions may affect these results and official final results should be reviewed from the **Final Report** option to assure their accuracy.

### Test Status

• The **Test Status** option will display the status of each test that is being performed on your samples. The Collected Date, Received Date, Client Reference, and any QA Events will also be shown. Click on the **Test Status** icon.

• The first step is to search for your desired samples. The Test Status search screen works the same way as the one for final reports. See [Searching for Your Final Reports](#) for suggestions on how to conduct a search.

• After entering your search information, click the **Find Samples** button. The **Reset** button clears all of the search fields.

• A list of samples matching your search criteria will be displayed. (See Figure 7.)

• The following are descriptions of each column on this screen.
Accession #: The lab number assigned to the sample by the laboratory.

Sample/Test Description: The Sample Description is displayed in the first row for each Accession #. The patient's name is usually displayed for clinical samples. The collector's name is usually displayed for environmental, safe drinking water, and private well samples. The type of animal is displayed for animal samples (e.g., rabies testing). The Test Descriptions are displayed in the remaining rows for each Accession #. There may be a footnote at the end of a Sample or Test Description which is explained in the QA Event column. If a footnote is after the Sample Description, it applies to the entire sample. If a footnote is after a Test Description, it applies to only that test.

Test Status: The test’s status is shown here. “In Progress” tests have not been finished. “Completed” tests have finished testing and their results are available on the Final Report or through the Spreadsheet View.

Collected Date: The date and time that the sample was collected. All dates and times have the format of YYYY-MM-DD HH:MM.

Date Received: The date and time that the sample was received at the laboratory. All dates and times have the format of YYYY-MM-DD HH:MM.

Client Reference: This value is a piece of information that your organization provided on the sample paperwork. It could be your organization’s lab number, a patient ID/Chart ID/Medical Record Number or another unique identifier for a sample.

QA Event: Any quality assurance issue that applies to your entire sample or an individual test is displayed in this column.

Email Notification

- The laboratory can send an email to specified email addresses whenever a new sample is received or when a result is available. You can choose whether the notification emails are sent for either or both types of events. Click on the Email Notification icon.
- You can also add a filter so that you will only receive email notifications from the laboratory that match that filter. This allows the user to only receive email notifications for samples that she collects, where she is the provider, or that have a specific Client Reference.

To Add Your Email Address (See Figure 8.)

- Click on the Add button to enter a new email address.
- Select your organization from the dropdown list in the Organization field.
• Enter your email address in the Email field.
• Check Received or Released or both to receive notifications for each type of event.
• Click the Save Changes button to complete the process.

To Add an Email Notification Filter (Optional) (See Figure 8.)

• If you wish to add an email notification filter, select the Filter By field (Client Reference, Collector, or Provider) by which you want to filter your email notifications.
• Enter the text that you want to match your filter in the Filter Match field. Examples include the last name of the collector or provider or a common word or number that is used in the Client Reference field of your samples.
• Click the Save Changes button to complete the process.

To Edit an Existing Email Address or Filter

• Click on any cell in the entry that you want to edit.
• Type in the new email address or filter information.
• Click the Save Changes button to complete the process.

To Remove an Email Notification

• Select the entry that you want to remove. Click the Remove button.

<table>
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<tr>
<th>Organization</th>
<th>Email</th>
<th>Filter By</th>
<th>Filter Match</th>
<th>Received</th>
<th>Released</th>
</tr>
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<td><a href="mailto:michael-hayek@uiowa.edu">michael-hayek@uiowa.edu</a></td>
<td>Collector</td>
<td>hayek</td>
<td>✓️️</td>
<td>✓️️</td>
</tr>
</tbody>
</table>

Figure 8 Signing Up for Email Notification

Changing Your Password

• You can click the Change Password button in the top right corner.
• Keep your new password secure. If you must write it down, be sure to keep it in a safe place.
• Your new password must meet the following requirements:
  • Password is case sensitive.
  • Must be at least 9 characters long.
  • Must be no more than 25 characters long.
  • Must not include any of the following values: test password
  • Must not include part of your name or username.
  • Must not include a common word or commonly used sequence of characters.
  • Must have at least three types of the following characters:
    Uppercase letter (A-Z)   Number (0-9)
    Lowercase letter (a-z)   Symbol (!, #, $, etc.)

Questions/Help

• Questions regarding the OpenELIS Web Portal may be directed to ask-shl@uiowa.edu or to 319/335-4358.