

# NORTH CAROLINA ELECTRONIC DISEASE SURVEILLANCE SYSTEM LEAD

User's Manual and Training Guide

Version 4.0

May 2010

Consilience Software 9005 Mountain Ridge Drive Suite 190 Austin, TX 78759

# TABLE OF CONTENTS

CHAPTER 1: OVERVIEW OF THE NC ELECTRONIC DISEASE SURVEILLANCE SYSTEM LEAD1
The North Carolina Electronic Lead Surveillance System2
Users, Roles and Groups2
Main vs. Administration Applications3
Logging In4
System Passwords5
Logging Out5
Exercise 1.1 – Logging into NC Lead6
Chapter 1 - Review Questions7
CHAPTER 2: THE NC LEAD DASHBOARD9
The NC Lead Dashboard10
Shortcut Buttons11
The Dashboard Toolbar11
The Event Summary Section13
The Event Information Section16
Chapter 2 – Review Questions
CHAPTER 3: WORKING WITH CHILDHOOD LEAD EVENTS
Creating an Event
Choosing an Event Type31
Exercise 3.1 – Create a New Event
Searching for an Existing Event41
Recent Cases
Exercise 3.2 – Search for Events
Adding or Updating information in an Event46
Changing the Event Type47
Temporary Locks47

	Exercise 3.3 – Add/Modify Event Information	. 48
CH/	PTER 4: EDITING PERSON DATA49	9
	Person Information	C
	Modifying Person Information50	D
	The Persons Tab	D
	The Demographic Question Package57	7
	Exercise 4.1 – Modify Person Information	. 59
СН	PTER 5: THE WORKFLOW QUEUE AND TASKS67	1
	Case Specific Monitors	3
	Exercise 5.1 – Interacting with Workflow Queues	. 66
	Tasks	7
	Create and Assign a New Task67	7
	Assign a Case	6
	Exercise 5.2 – Create and Assign a Task	70
		. 70
	Sharing a Case	
		Ð
СН	Sharing a Case79	<b>9</b> . 81
СН	Sharing a Case	<b>9</b> . 81 <b>3</b>
СН	Sharing a Case       79         Exercise 5.3 – Share a Case (Demonstration)	9 . 81 3 5
СН	Sharing a Case       79         Exercise 5.3 – Share a Case (Demonstration)       79         PTER 6: PRINTING, REPORTING, AND ADDING ATTACHMENTS       83         The Event Print Document       86	<b>?</b> . 81 <b>3</b> . 87
СН	Sharing a Case       79         Exercise 5.3 – Share a Case (Demonstration)       79         PTER 6: PRINTING, REPORTING, AND ADDING ATTACHMENTS       83         The Event Print Document       86         Exercise 6.1 – Print a Document       86	9 . 81 3 5 . 87 8
СН	Sharing a Case       79         Exercise 5.3 – Share a Case (Demonstration)       79         APTER 6: PRINTING, REPORTING, AND ADDING ATTACHMENTS       83         The Event Print Document       86         Exercise 6.1 – Print a Document       86         NC Lead Reporting       88	<b>?</b> . 81 <b>3</b> . 87 <b>3</b> . 91
СН	Sharing a Case       79         Exercise 5.3 – Share a Case (Demonstration)       80         PTER 6: PRINTING, REPORTING, AND ADDING ATTACHMENTS       83         The Event Print Document       86         Exercise 6.1 – Print a Document       86         NC Lead Reporting       88         Exercise 6.2 – View a Report       86	<b>?</b> . 81 <b>3</b> . 87 <b>3</b> . 91 2
	Sharing a Case 79   Exercise 5.3 – Share a Case (Demonstration)	<b>?</b> 3 3 5 87 <b>3</b> 91 2 94
	Sharing a Case 79   Exercise 5.3 – Share a Case (Demonstration)	<ul> <li><b>7</b></li> <li><b>8</b></li> <li><b>8</b></li> <li><b>8</b></li> <li><b>8</b></li> <li><b>8</b></li> <li><b>8</b></li> <li><b>9</b></li> <li><b>1</b></li> <li><b>1</b></li></ul>
	Sharing a Case 79   Exercise 5.3 – Share a Case (Demonstration) 79   PTER 6: PRINTING, REPORTING, AND ADDING ATTACHMENTS 83   The Event Print Document 86   Exercise 6.1 – Print a Document 86   NC Lead Reporting 88   Exercise 6.2 – View a Report 92   Exercise 6.3 – Add an Attachment 95	<ul> <li><b>7</b></li> <li><b>8</b></li> <li><b>8</b></li> <li><b>8</b></li> <li><b>8</b></li> <li><b>8</b></li> <li><b>8</b></li> <li><b>9</b></li> <li><b>1</b></li> <li><b>1</b></li></ul>

CONCLUSION	97
INDEX	98
APPENDIX A: TIPS IN INTERNET EXPLORER	100
APPENDIX B: HOW TO UNLOCK A LOCKED FORM IN MS WORD:	102
APPENDIX C: ANSWERS TO CHAPTER REVIEW QUESTIONS	104
Chapter 1 - Review Questions	
Chapter 2 – Review Questions	
Exercise 4.1 – Modify Person Information	
Exercise 5.1 – Interacting with Workflow Queues	
Exercise 5.2 – Create and Assign a Task	
Exercise 6.1 – Print a Document	
Exercise 6.2 – View a Report	
Exercise 6.3 – Add an Attachment	
APPENDIX D: DEFINITIONS	110
APPENDIX E: LINKING PROPERTY-CHILD EVENTS	113
Linking Events	114
Link Types	114
Linking Property Events to Child Events	114
APPENDIX F: DEDUPLICATION	117
Deduplication	118
Event Deduplication	118
Person Deduplication	121
How to Avoid Creating Duplicates	122
Deduplicating Persons	123
Deduplicating Events	125
Question Merging in Question Packages	127
Manually Invoking Deduplication	130

APPENDIX G: CLOSING EVENTS	
Closing an Event	133
Reopen a Closed Event	

# Chapter 1: Overview of the NC Electronic Disease Surveillance System Lead

Learning Objectives:

- 1. Explain the purpose and benefits of implementing the North Carolina Electronic Lead Surveillance System (NC Lead).
- 2. Describe the purpose of permissions, roles, and groups within the NC Lead system.
- 3. Demonstrate the ability to log into the North Carolina Electronic Disease Surveillance System Lead.

## The North Carolina Electronic Lead Surveillance System

NC Lead is an electronic lead surveillance system (ELSS) for North Carolina that allows public health officials to receive, manage, process, and analyze data for cases of suspected childhood lead exposure. Through data analysis, NC Lead can extract surveillance data for the identification, tracking and reporting of childhood lead exposure.

NC Lead allows secure communication and coordination between state and local health departments (LHD's). Furthermore, NC Lead enables immediate exchange of information among clinics, labs and local health departments. NC Lead security environment displays only the data someone needs and is authorized to see. Additional NC Lead functions include:

- Electronic data exchange and flow of work among groups working on public health lead management
- Ability for lab reports to be imported electronically
- Data entry capability
- Reporting
- Tracking of persons and properties

## Users, Roles and Groups

System security is in accordance with specified requirements. Users will be assigned a username and password that will provide access to the system. Each username is associated with one or more roles and one or more groups, which give access to specific system features and lead information. The roles and groups to which a user is assigned depend on their job function. Permissions, roles, and groups are described in detail below.

- > User: Any individual using the NC Lead system.
- Group: Groups determine what cases are visible to the user. Users are members of groups based on jurisdiction and specialization. For example: members of the Wake County group would only be able to access Wake County events. Users can belong to more than one group.
- Role: Roles define the user's permissions the ability to use specific functions/features in NC Lead. Example: The Local Health Clinician role has permissions to create or edit an event, and to run reports. A user belonging to the Local Data Entry Role has a different set of permissions than the Clinician.
- Permission: Permissions in NC Lead provide the ability within the system to perform certain actions, such as "run a report" or "delete a case".



## Main vs. Administration Applications

There are two major applications, or computer modes, of NC Lead system as seen in the figure below - Main and Administration. This manual will focus only on the Main application. The Main application is where all event data is accessed and edited. For example, users can search for an event and add new events, as well as view reports within NC ELSS. The Main application is always the default setting when logging into the system.

Login	
Login Name:	rolivieri
Password:	•••••
Application:	Main 🔽
	Login

The Administration application is used by NC Lead administrators at the state and/or local levels. The Administration application allows system administrators to create new users in the system, to assign roles, and to reset passwords.

## Logging In

- The North Carolina Electronic Lead Surveillance System (NC Lead) can be accessed through Internet Explorer 6.0 and above or Firefox 2.0 and above; however, NC Lead is not supported by Netscape. Logging into the system is simple. To do so, follow these steps:
- 1. Open a browser and go to the NC Lead website by typing <u>https://ncleadtraining.ncpublichealth.info/login.do</u> The following screen appears:

^

~

~

#### North Carolina Electronic Lead Surveillance System

#### User Privacy - NOTICE

```
This system is the property of the State of North Carolina and is for
authorized use only. Unauthorized access is a violation of federal and state
law. Unauthorized access or use of this computer system may subject violators
to criminal, civil, and/or administrative action.
```

#### Acceptable Use Policy

```
    I understand the NC EDSS information system is to be used only for official purposes.
    All information on the NC EDSS is confidential. I will not use or disclose this information except for its authorized purposes. I agree not to share information obtained on the NC EDSS with anyone (including family members) other than authorized NC EDSS users.
```

```
3. I agree to apply appropriate safeguards to protect the confidentiality and security of the information obtained on the NC EDSS.
```

Login	
Login Name:	
Password:	
Application:	Main
	Login

Powered by Maven, a product of Consilience Software (www.consiliencesoftware.com) www.consiliencesoftware.com

2. Enter your assigned **username** and **password** in the appropriate text boxes and verify the Application is set to **Main**.

**Caution**: Username and password are case sensitive so be sure to enter these exactly as they were provided. For example, WXYZ1234! Is not the same password as wxyz1234!

3. Click Login. The NC Lead dashboard displays:

	#⇒≞ ⊕ !	<b>२२</b> 0 ∎	b event loaded]				Logi
t Summary							
Event D Event Type Primary Perso Address Dates Investigation 5 Linked Events Attachments	n					Hotes	
	Lab Resuts	Concerna	Persona	Tasks	Event Audit Trail	·	
QUESTION PA			NAME	LA	AST UPDATE	UPDATED BY	STATUS
View	Opention Package .						
	Sonation (Sichara) skage - Detaila						

The dashboard is where users are able to access functions such as searching for an event, printing a letter, and much more.

## System Passwords

**Note that passwords do expire after 90 days.** The system will begin to warn the user that the password will expire 15 days before it actually expires. If the password does expire the user will need to contact a system administrator to regain access to the system. To change the password *before it has expired*, first click on the User Information button (discussed in Chapter 2) then simply type the new password into the password field and then confirm it by re-typing the same password; click Save to maintain changes.

Password Requirements: NC Lead requires users to establish "strong" passwords. Passwords must be 8-14 characters in length, and contain at least one number and one symbol (e.g. &, #, !).

## **Logging Out**

To logout of the system, click the Logout button highlighted in the image above. This action logs the user out of the system and takes the user back to the sign in page at which point it is safe to close the browser window.

## Exercise 1.1 – Logging into NC Lead

The purpose of this exercise is to demonstrate the ability to log into the North Carolina Electronic Lead Surveillance System.

- 1. Open a browser and enter the URL<sup>\*</sup> for the training system.
- 2. Enter login<sup>\*</sup> information.
- 3. Click Login.

<sup>\*</sup> This information will be provided by the instructor.

## Chapter 1 - Review Questions

- 1. Your NC Lead password will expire if you do not change it within how many days?
- 2. What are three benefits of implementing NC Lead?

- 3. What is the purpose of permissions within NC Lead?
- 4. What is the difference between a role and a group in NC Lead?

Learning Objectives:

1. Identify the three distinct areas of the NC Lead Dashboard and specify the purpose of each.

## The NC Lead Dashboard

NC Lead Dashboard is the point from which most actions take place. Here are some examples of what users can access from this screen:

- Create a New Childhood Lead Event for either a person or property
- Search for an Existing Event
- View Workflow Queues
- Add a Task
- Print a Letter
- View Reports
- Question packages to enter data.

NC Lead Dashboard is divided into three separate areas. The first is the dashboard toolbar which has icons that perform the majority of the functions within the product. **Depending on a user's role, the buttons displayed in the toolbar may** vary. For example, one user might see a trashcan icon which is used to delete an event, while another user may not see a trashcan because his assigned role doesn't permit deleting items.

The second area, Event Summary, is for event information specific to each reported lead event. The third distinct area on the dashboard is the Event Information, which contains the detailed information about the event.



## **Shortcut Buttons**

The shortcut buttons allow the user to quickly locate an event by its ID, provide the user help, and allow the user to logout of the system. To locate an event by its ID, enter the ID in the textbox and click the Open button. To obtain general help, click the Help button. To logout of the system, click the Logout button. This action will take the user back to the login screen.

## The Dashboard Toolbar

The buttons on the toolbar are described below from left to right.

D

Q

**Create Event** - used to create a new lead event. A detailed description of how to enter a new event is covered in <u>Chapter 3</u>.

**Search Event** - used to search for an existing event, based on various search criteria. A detailed description of how to search for an event is covered in Chapter 3.

8

**Print Case -** used to print letters or other forms specific to the open event. This topic is covered in depth in <u>Chapter 7</u>.

- Workflow used to view user specified workflow queues. Workflow queues display results of database queries. The queries are designed to bring attention to various issues which may need the users' attention. A detailed description of how to view and use workflow queues is covered in <u>Chapter 5</u>.
  - **Tasks** use this to assign and update the status of specific tasks. Learn more about creating and assigning tasks in <u>Chapter 5</u>.
- ⇒

2

**Assign Case** - provides the user with a shortcut to assigning an event to someone else. This is discussed further in <u>Chapter 5</u>.

**Reports** – users can view and print reports from data entered in NCEDSS. This is covered in greater detail in <u>Chapter 7</u>.

Ĥ

**User Information** – provides information about the current user of the system. Use this button to enter your contact information and to change your password, if prompted.

ŀ	e	,	-
ţ	i.		1
 ŀ	£,	Z,	ы

**Share Case -** provides the user the ability to share an event with someone who would not ordinarily have permissions to see it. Details regarding sharing events are covered in <u>Chapter 5</u>.



**Recent Cases** – provides easy access to the previous 20 events that have been worked on by the current user. A detailed description of how to search for an event or lead report is covered in <u>Chapter 3</u>.

## **The Event Summary Section**

The Event Summary section is divided into two smaller sections: Basic Information and Notes. There is also an Edit Event Properties button in this section which takes the user to a new screen when clicked.

The Basic Information section, as its name implies, highlights the following subjects for every event.

Sasic Information	Notes
Event D Event Type:	
Event Type:	
Primary Person	
Address	
Dates. Investigation Status:	
Investigation Status:	
Linked Events:	
Attachmenta:	

Event ID	The unique event number automatically assigned by NC ELSS.
Event Type	The type selected from a dropdown menu when an event is first entered into NC Lead is reflected in this field.
Primary Person	The person about whom data is entered when an event is input into NC Lead is reflected in this field.
Address	The address of the person in the event.
Dates	The date the event was created.
Investigation Status	The investigation status displays the current status of the event; typically the status will be either open or closed.
Linked Events	Displays the number of other events that are linked to this event. This is also a tool where one could initiate the linking of one event to another.
Attachments	Displays the number of files that are attached to this event. This is also the tool used to access the attachments. Any file, such as a report, letter, or photographs can be attached to an event.
Additional Information	Displays additional information about the event, such as a listing of linked events.

#### The Person Summary Screen

The Person Summary screen is accessed by clicking the person's name in the Event Summary panel of the dashboard. The primary purpose of the Person Summary screen is to display to the user other events which have been associated with the same person. This alleviates the potential need to link events of one person to other events for the same person.

To access the Person Summary screen:

1. Click the person's name in the Event Summary panel of the dashboard.

Basic Information	
Event ID:	100000663
Event Type:	Blood Lead - Child
Primary Person:	Gregory Wayne Bryan Bith Date: 08/25/2002 ( 5 yrs Male ) Phone:
Address:	800 S Mint St, Charlotte, NE 28202 (Edit)
Dates:	Create Date: 04/18/2008
Investigation Status:	Open
Linked Events:	1 linked event(s) (View)
Attachments:	1 attachment(s) (Add) (View)
Additional Information:	Linked cases:
	100000695 - Jack Black - 1243 Piano Street, Raleigh, NC 99999 [Open]

2. This provides a screen which displays the Person Summary information.

#### Person Summary

Name:	Bryan, Gregory Wayne					
Birth Date:	08/25/2002					
Age:	6 yrs 2 mos 30 dys					
Gender:	Male					
Social Security Number						
External ID:	100034364					
Notes:	04/21/2008 - Robert Oli Patient diagnosed with	<u>vieri</u> Asperger's Syndrome.				
Address Information						
TYPE	ADDRESS			OFFICIAL CITY	COUNTY	PHONE
Home	800 S Mint St, Charlotte, NC 28202				Mecklenburg County	
Vacation Home	7305 North Point,	Winston Salem, NC 27101				
Events						
Event ID	Name		Status	Create Date	Event Type	
100000663	Bryan, Gregory	Wayne	Open	04/18/2008	Blood Lead - Child	
Linked People						
	NAME	BIRTH DATE	ADDRESS			PHONE
RELATIONSHIP			7305 North Point, Winston Sak	em, NC 27101		
RELATIONSHIP Other						
			800 S Mint St, Charlotte, NC 28	202		

- 3. The top section of this screen displays the person's demographic information, next the most up-to-date address information is displayed, and the third section lists the other events for the person. Click the links under "Event ID" in the Events table to open the other events for the person.
- 4. Click the Dashboard button to be returned to the Dashboard.

#### **Event Notes**

Basic Information

The Notes section displayed in the Event Summary section of the NC Lead dashboard allows users to add event specific notes that are retained with the event only. In other words, if the same person has a different lead event in the future, the notes entered in the previous event will not display. The user activates the Notes section by clicking on "Edit" found beside the section title "Notes" as seen below.

Clicking this link will present the user with a new screen (shown below). A note may also be entered by clicking on the "Edit Event Properties" button, as discussed in the next section.

Notes (Add/Edit | Show My Notes)

Notes can be designated as either public or sensitive by specifying in the dropdown. The determination of which notes are viewable is determined by a user's role. Some user roles have the ability to see all notes (public and sensitive) and others will only see public notes; likewise, some users will be able to write both public and sensitive notes, while others can only add public notes.

Add/Edit N	otes
Add Note	
Text:	
	2500 characters left
Category:	Generic 🗸
Type:	Public
Save Previous Not	Close

Users are able to edit their own most recent note if it was the last note added to the event. It will be displayed for editing at the bottom of the Add Note screen. However, if Bill enters a note, then Judy enters a different note, Bill will no longer be able to edit his previous note. Likewise, users can delete their own notes unless a note was added by another user between the time that the first note was added and the time the user realizes their note needs to be deleted. If Bill enters Note 1, then Judy enters Note 2, then Bill enters Notes 3 and 4. Bill can edit or delete Notes 3 and 4, but cannot delete nor edit note 1. Also, in order for Bill to edit or delete Note 3, he would have to have first deleted Note 4.

#### **Editing Event Properties**

The Edit Event Properties window can be accessed by clicking the "Edit Event Properties" button.



On the Edit Event Properties screen, the user is able to change the event type, change the status ("Change Status To" field), add an event note, specify the note type, set the deduplication status, and replace a previous note.

Event Information	
Event ID:	100000000
Change Type To:	
Status:	Open
Change Status To:	×
Note:	
	2500 characters left
Category:	Generic 💌
Note Type:	Public V
Deduplication Status:	Done

Event ID	Displays the Event ID of the current event.
Change Type To	Allows the user to change event type.
Status	Displays the current investigation status of the event- open or closed.
Change Status To	Allows the user to change the current investigation status of the event.
Category	Allows the user to categorize the note according to a preset list of categories.
Note Type	Allows the user to set the note type to Public or Sensitive.
Deduplication Status	Displays the deduplication status of the event. Changing this dropdown can force the event to be added to the deduplication pending queue. (See Deduplication chapter for more information.)

## **The Event Information Section**

The Event Information Section is divided into two (2) distinct sections as seen in the figure below. These are the tabs located immediately below the "Event Information"

section header and the descriptive areas which change depending upon the chosen tab. Each view will be discussed in more detail below. These tabs vary depending on the type of event you are working in. In this case, a child event is referenced unless otherwise noted.

Event Data	Lab Results	Concerns	Persons	Tasks	Event Properties	Event History	
Question Pack	ages						
QUESTION PACK			NAME	LAST	UPDATE	UPD	ATED BY
Administrative			Tara Byron	03/25	/2010	tmo	ore
Clinical Assessn	nent		Tara Byron	02/22	/2010	trile	ywilliams
Demographic			Tara Byron	02/22	/2010		ywilliams
Medicaid Billing			Tara Byron	02/22	/2010		ywilliams
View Qu	uestion Package						
	Defaile						
Question Pack	age - Details						
Question Pack Name:	age - Details		Administrative				
	age - Details		Administrative				
Name:	age - Details		Administrative Tara Byron				
Name: Description: Name: Status:			Administrative Tara Byron Complete				
Name: Description: Name:			Administrative Tara Byron Complete 17				
Name: Description: Name: Status: Number of Ques Incomplete Requ			Administrative Tara Byron Complete 17 0				
Name: Description: Name: Status: Number of Ques	stions:		Administrative Tara Byron Complete 17				

### **Event Information - Tabs**

The Tabs section contains tabs that provide the user with a variety of information about the event. Depending on the user's permissions, he may not be able to see each tab.

	Child E	Event	Eve	nt Data	Lab	Results	(	Concerns		Persons	Tasks	Event History
	operty	E	vent Data	Lab Re:	sults	Concern	s	Site Informatio	on	Tasks	Event Properties	Event History
E E	vent											

These tabs are discussed below:

Event Data	Clicking the Event Data tab presents the user with the question packages specific to the event. Further information on question packages is covered in <u>Chapter 3</u> .
Lab Results	Clicking Lab Results presents users with the ability to view, add, and edit lab results for a particular event. Electronic lab results are also displayed here.
Concerns	Clicking the Concerns tab allows the user to see possible issues with data entry. (For example, if someone types a blood lead test date that is prior to the patient's date of birth a notification will display in the concerns tab indicating the error.) Additionally, concerns can be entered manually.

Persons (Child Event)	Clicking the Persons tab allows the user to enter or change demographic information for the person involved in this particular event. This person information will display if a future event is created for this person.
Site Information	Clicking this tab allows the user to enter or change demographic information for the property involved in this particular event.
(Property Event)	
Tasks	Clicking the tasks tab will provide the user with information about all the tasks associated with the open event. Event tasks will display here regardless of who is assigned the task.
Event Properties	Event properties is a read-only section that shows summary information about the event, and the output of various rules.
(Property Event)	The information on this tab is generally used for configuration and troubleshooting
Event History	The event history displays the time and date the event was created, and keeps track of the times the event has been updated, including which question packages were modified and the username of the person who made the update.

### **Event Information – Event Data Tab**

The Event Data tab is where the user accesses the specific question packages. A question package is a group of questions which share a common theme. For example, the Demographic question package includes only information such as age, birth date, and address, while the Clinical question package includes information about the event, such as symptoms and date of diagnosis.

The question packages table is divided into four (4) columns as seen in the figure below. These headings are described in detail beneath the figure.

Event Data	Lab Results	Concerns	Persons	Tasks	Event History	
Question Pack	ages					
Question Pack QUESTION PAC			NAME	LAST	JPDATE	UPDATED BY
-			NAME Tara Byron	LAST 03/25/		UPDATED BY tmoore
QUESTION PAC	KAGE				2010	
QUESTION PAC Administrative	KAGE		Tara Byron	03/25/	2010 2010	tmoore

Question Package	Identifies the titles of the question packages.
Name	Indicates the name of the person involved in the event.
Last Update	Displays the date on which each question package was last updated.

**Updated By** Identifies the user who made the last update or modification to the question package.

The number of questions in a specific question package is displayed in the details section below the list of question packages. Click the name of the question package and view the details at the bottom of the section.

The question packages are unique to the event type selected. Property Event question packages are illustrated below:

vent Informatio	n						
Event Data	Lab Results	Concerns	Site Information	Tasks	Event History		
0		-					
Question Pac QUESTION PA			NAME			LAST UPDATE	UPDATE
1. Property Info	rmation		11 Jack B Nimbel Stree	t, Roper, NC 27970 *		04/19/2010	kblount
2. Environment	al Activity		11 Jack B Nimbel Stree	t, Roper, NC 27970 *		04/21/2010	kblount
3. XRF Reading	S		11 Jack B Nimbel Stree	t, Roper, NC 27970 *		04/19/2010	kblount
4. Remediation			11 Jack B Nimbel Stree	t, Roper, NC 27970 *		04/21/2010	kblount
View (	Question Package						

### **Event Information - Lab Results Tab**

To manually enter or examine laboratory results applicable to a specific event, first click the Lab Results tab. This action causes the screen below to display.

vent Data	Lab Results	Concerns	Persons	Taska	Event Audit Trail		
Labs							
LAB							
Spec Date: 04	/15/2008 Spec Source	Spec Number: 123428	\$75				
Add Lat	Result U	pdate Lab Result	8				
Add Lat	Result U	pdate Lab Result	1				
Details	Result	pdate Lab Result	]				
Details Lab Results	Result U	pdate Lab Result			8 Spec Source: Spec Number: 1	2342075	
Details	Result U	pdate Lab Result		Spec Date: 04/15/2000 olivieri Details	8 Spec Source: Spec Number: 1	2142075	
Lab Results Updated By	Result U	pdate Lab Result		rolivieri	8 Spec Source: Spec Number: 1	04/15/2008, 12342675	
Lab Results Updated By	Result U	pdate Lab Result		Details	8 Spec Source: Spec Number: 1		
Lab Results Updated By	Result U	pdate Lab Result		olivieri Details Specimeninfo Test Susceptbility	8 Spec Source: Spec Number 1	04/15/2008, 12342675	
Lab Results Updated By	Result U	pdate Lab Result		Details Details Specimeninfo Test Susceptibility LabFacility	8 Spec Source: Spec Number: 1	04/15/2008, 12342675	
Lab Results Updated By	Resut U	pdate Lab Result		olivieri Details Specimenin fo Test Susceptibility LabFacility OrderingFacility	8 Spec Source: Spec Number 1	04/15/2008, 12342675	
Lab Results Updated By	Resut U	pdate Lab Result		Details Details Specimeninfo Test Susceptibility LabFacility	8 Spec Source: Spec Number: 1	04/15/2008, 12342675	

A brief summary of the previously entered lab results is displayed on this screen: the sample collection date; sample source; and sample number. Additionally, if test results have been entered, the results will display in the lower section of the screen. Similar to Question Packages, the user is able to view and edit lab results by clicking first on the result in question and then clicking Update Lab Result. Double-clicking the lab result line item is also a way to access the results for viewing, editing or deleting. (Note that not all users will see the Delete Lab Result button as shown in the screen above – it will depend on the user's role.)

To enter a laboratory result, first click the "Add Lab Result" button. This action results in the following screen being displayed.

Lab Results		
Name:	Gregory Wayne Bryan 🔽	
Lab Results:		<ul> <li>I</li> </ul>
·		
Save	Lab Work Environmental Lab Work	elp

## Add Lab Result - Gregory Wayne Bryan - Blood Lead - Child

The user can choose between adding Clinical (lab work) or Environmental Lab Work.

Choosing Clinical displays the following screen.

Add Lab Result - Gregory Wayne Bryan - Blood Lead - Child



Add Lab Result	- Tara Byro	n - Blood Lead - Child				
Lab Results						
	'ara Byron 🚿	2				
		Sample 😽				
		anton M				
Order Info						
Order Number*		Collection Date"	Date Received"			
Collector Name		Collector Phone	Report Status	Report Date		
					-	
1 works						
Lab Sample Numb	ar -	Field Sample Number	Specimen Source"	Surface Type"		
			<b>N</b>	×		
Sample Descriptio	an					
Test Description		Test Local Description				
×					Deter	
Result Value		Unita	Reporting Limit	Reput		
				<b>•</b>		
Dust Wige Length		Dust Wige Width	Dust Wige Area	Recomputed Result		
Hazard		Result Onte				
<b></b>						
Add	]					
Leb heality	-					
Lab Facility						10 m
Lab Facility (Othe						
	°					
Jame						
Address						
Phone						
CUA						
	_					
Ordening Facilit	N .					
Ordering Facility						🛛 🖄 मि
Ordering Facility (	(Other)					
JAnne						
Address						
_Phone			1			
			J			
County						
EIN						
Ordener						
Name						
			_			
Misc Info		Log I				
Notes		<u>e</u>				
		<u></u>				
Save	Cance	i Heb				
Done						

Choosing Environmental Lab work displays the following screen.

A more detailed explanation of the Lab Results screens is located in <u>Chapter 3</u>.

#### **Event Information – Concerns Tab**

The concerns tab is used to highlight potential data entry issues that may need to be addressed. For example, if someone mistakenly inputs a date of birth that is after the

date indicating onset of symptoms, the system would generate a "concern", or a notice that a data entry error may have occurred. Additionally, concerns can be entered manually by clicking the Add Concern button.

Concerns that are generated by the system are always related to data entry; however concerns that are entered manually can be about anything. Additionally, when the data entry error has been corrected the concern no longer displays in the Concerns tab; but when the concern is manually entered it will display with the event permanently.

**Note:** Because data entry errors are primarily noted in the Concerns tab, is important to check the concerns tab regularly before unloading the event.

Event Data	Lab Results	Concerns	Persons	Tasks	Event Audt Trail				
Concerna									
CONCERN		DESCRIPTIO	N			NAME	LAST UPDATE	SEVERITY	STATUS
QUALFICATIO	ON_RULES_CONCERN_EL	SE The zip cod	e entered for the child	indicates that the pr	operty meets the oriteria for universal screening.	Gregory Wayne Bryan	04/18/2008	Medium	Active
Add Con	ncern Update	Concern							
Concern - De									
Concern - De Concern									
Concern - De Concern Description:									
Concern De Concern Description Name:									
Concern De Concern Description: Name: Status									
Concern De Concern Description Name:									
Concern De Concern Description: Name Status Severity Create Date: Last Update									
Concern De Concern Description Name Status Severity Create Date									

- **Concern** Unique name of the concern in the database.
- **Description** Describes the concern.

**Person** The person about whom the event is based.

- Last Update The date upon which the concern was last updated and if no updates have been made to the concern, this date refers to the date the concern was entered.
- **Status** Refers to the current state of the concern either active or resolved.

Sometimes the concerns may not be valid, so users have the ability to note that the concern has been acknowledged and that the data entry is fine as-is. For example, the system might produce a concern about an extremely high blood lead level that a user input into the clinical question package. If the concern was valid, the user could go back into the question package and correct the error and the concern will no longer display. However, if the blood lead level was truly this extreme; the user could acknowledge the concern and keep the information in its present condition. To acknowledge that a concern has been recognized, click on the concern and then click the update concern button and set the status to Resolved. Setting the status to Resolved indicates to other users that someone has acknowledged the concern and ascertained that the data is accurate. It is good practice to record in the notes field how the concern was resolved.

#### Edit Concern - Gregory Wayne Bryan - Blood Lead - Child

Concern Information	
Concern:	QUALIFICATION_RULES_CONCERN_ELSE
Description:	The zip code entered for the child indicates that the property meets the criteria for universal screening
Name:	Gregory Wayne Bryan
Create Date:	04/18/2008
Last Update:	04/18/2008
Updated By:	rolivieri
Status:	Active
Notes:	

Save Cancel Help

Concern	Unique name of the concern in the database produced by NC E	ELSS.
---------	---	-------

- **Description** Describes the concern.
- **Name** The person about whom the event is based.

**Create Date** The date upon which the concern was created.

- Last Update The date upon which the concern was last updated and if no updates have been made to the concern, this date refers to the date the concern was entered.
- **Updated By** The name of the user who last updated the concern. If the concern itself has not been updated, the username of the person who entered the data that triggered the concern will appear or if the concern was manually entered, it is name of the person who entered the concern.
- **Status** Refers to the current state of the concern either active or resolved.
- Notes Notes about the concern.

Concerns also have a severity associated with them. This enables the user to understand the magnitude of the issue. If a concern is considered "Very High" the concern will not

only display in the Concerns tab, but also in red on the dashboard. The concern will remain on the dashboard until it has either been corrected (data entry error) or it has been marked Resolved.

#### **Event Information – Persons Tab**

Information about the person involved in the event may change over time. The Persons tab is used to update address or name information as well as to view other historical demographic information.

event Data	Lab Results	Concerns	Persons	Taska	Event Audit Trail		
Persons					BRTH DATE	STATUS	
NAME Gregory Wayn	e Bryan				08/25/2002	Active	

Clicking the "Edit" button will allow the user to update basic information about the person. The edit person screen is shown below. All of the information contained on this screen will automatically appear in any future events created for this person.

Edit Person		
First Name:	Gregory	
Middle Name:	Wayne	
Last Name:	Bryan	
Birth Date:	08/25/2002	
Gender:	Male	
Social Security Number:		
Deduplication Status:	Done 💌	
boadphoation otatao.	Done V	
Save Cano	lar.	
Save Calif		
Addresses		
Туре	Address	Phone
Home Vacation Home	800 S Mint St, Charlotte, NC 28202 7305 North Point, Winston Salem, NC 27101	
vacation nome	7305 North Point, Winston Salem, NC 27101	
Add Address	Remove Address	
P-P4 A-I-I		
Edit Address		
Address Type:	Home	
Start Date:	07/14/2008	
End Date:	01/01/2030	
Street Address:	800 S Mint St	
City:	Charlotte	
State:	NC V	
Zip Code:	28202	
County:	Meddenburg County	
Home Phone:		
Mobile Phone:		
0	al Itala	
Save Canc	el Help	

Edit Person - Gregory Wayne Bryan - Blood Lead - Child

#### Persons – Sub-Tabs

The Persons tab contains several sub-tabs. These tabs provide further information about the person and allow for changes and additions to be made. Information such as address history, social relationships, and if applicable, name changes can be viewed, added, or changed. All information in the Persons tab will appear in future events for the person. More information regarding the Persons tab can be found in <u>Chapter 4</u>.

Basic Information	Address Information	Linked People	Demographic History	Notes
----------------------	------------------------	---------------	------------------------	-------

#### **Event Information – Tasks Tab**

The Tasks tab provides information about the tasks associated with the open event. Click Add Task to add a task which is related to the event open in the Dashboard. The tasks associated with the open event will display in the table at the top of the screen shown below. Details about that task display in the lower table. More information about tasks is located in <u>Chapter 5</u>.

rent Data	Lab Results	Concerns	Persons	Tasks	Event Audit Trail			
Tasks	2							
TYPE	STATUS	PRIORITY	DUE DAT	1	DESCRIPTION	ASSIGNED TO	ASSIGNED TO GROUP	
	Sponso Tana							
Type Status	This parts Taxas							
Type Status Priority:	Suptante Tana							
Details Type Status Priority Due Date: Description								
Details Type Status Priority Due Date Description Assigned To	0.							
Type Status Priority Due Date: Description Assigned To Assigned To	s o Group:							
Details Type Status Priority Due Date: Description Assigned To Assigned To Create Date:	e o Group:							
Details Type Status Priority Dee Date Description Assigned To Assigned To Create Date Created By.	s o Group							
Type Status Priority Due Date Description Assigned To Assigned To Create Date	e Group							

Type The type of task.

Status	The status of the task, pending, in progress, or completed.

Priority	The priority of the task as set by the user who created the
	task.

- Due DateThe date specified by the user who created the task as the<br/>date by which the task should be complete.
- **Description** The short description of the task as written by the creator of the task.
- Assigned to Displays the name of the user to which the task is assigned.
- Assigned to Group Displays the name of the group to which the task is assigned.

### **Event Information - Event History Tab**

Sometimes it may be important to research who handled some of the data entry on a given event. This can be done using the Event History. In this section, users can view information about who has entered data and when in a given question package. It also provides information such as who last updated person information, concerns, and lab results. The event history only appears for certain roles; many people may not see this tab.

		1 1		1			
vert Data	Lab Results	Concerns	Persons	Tasks	Event Properties	Event History	
Event History		· ·		10-			
TIME	-	EVENT		MESSAGE			USER
03/18/2010 07	35 AM	Case Created		Case created			Jgriesse
03/18/2010 07	35 AM	Case Property Upd	isted	Updated case (	properties: (Deduplication	Status: Done> Pending]	Jyriesse
03/16/2010 07:	:35 AM	Participant Updated	ġ.	Updated partici	part information: Jenniter	Annibel	Jgriesse
03/18/2010 07	35 AM	Participant Updates	đ	Updated Conta	ct Point for: Jenniter Anni	bel of type: Home	Jgriesse
03/22/2010 05	09 PM	Attachment Update	nd .	Add attachmen	£ Form3651 stf - Jenniter	Annibel	asioane
		Attachment Update			Form3651.rtf - Jenniter		asioane

**Time** The date and time of the occurrence of the action.

- **Event** The type of action that occurred.
- Message A more detailed description of the action.
- **User** The username of NC Lead user who performed the action.

## Chapter 2 – Review Questions

1. Name and describe the purpose of each of the following buttons from NC Lead Dashboard toolbar:

ৎ	
X	

2. What are three pieces of information ascertained from the Event Summary portion of NC Lead Dashboard?

3. What are the tabs shown in the Event Information section and what is the primary purpose of each?

# Chapter 3: Working with Childhood Lead Events

Learning Objectives:

- 1. Demonstrate the ability to create a new event
- 2. Demonstrate the ability to search for an existing event
- 3. Demonstrate the ability to modify/update an event

# **Creating an Event**

To create an event in NC Lead, complete the following steps:

Click the Create Event button on NC Lead Dashboard Toolbar and the following screen will appear.

### **Create Event - Person Information**

Event Information		
Event Type:	×	
Add Person		
First Name:	Middle Name:	Last Name:
Birth Date:	Gender:	Social Security Number:
Address Type: Home	Street Address:	
City: County:	State: NC 💌 Country:	Zip Code:
×	USA	×
Home Phone:	Mobile Phone:	
Select Person		Clear
Save Cancel	Help	
# **Choosing an Event Type**

The Create Event page is divided into three separate sections. In the first section is the Event Type dropdown menu. This dropdown menu allows the user to select a specific event type. (The list of event types in the dropdown will depend on the NC Lead group to which the user belongs. Remember that the groups are based on one's job role.) The appropriate type is accessed by left clicking the down arrow and selecting on the appropriate lead event type. The choices for Event Type are:

- Blood Lead-Adult
- Blood Lead- Child
- Blood Lead- Not Classified
- > Employer
- Laboratory
- > Property

**Note:** Childhood Lead will be primarily concerned with the following Event Types: Blood Lead- Child, Blood Lead- Not Classified, and Property

Event Information	
Event Type:	Blood Lead - Child



To navigate the list more quickly, type the first letter of the lead being entered.

## Creating a Childhood Lead Event

Once you have chosen Blood Lead – Child for the event type, click the Select Person button to search the database for the person. Use the Search Party screen to locate a person who may already be in the NC Lead system.

Make sure the Category dropdown is set to Person. Enter the first or last name then click the Search button at the bottom of the window. If a record for the person is located, select the person's name from the list on the right side and click the "Use Selected Party" Button.

Search Party								
Party Details		Search Results						
Category:	Person 💌	Search Results						
Туре:	~	Name	Birth Date	Street Address	City	State	Zip Code	External ID
External ID:		Johnson, Michelle	06/17/2007			NC		110000004
Last Name:	Joh*	]						
First Name:		]						
Birth Date:								
Gender:	×	Displaying result(s) 11, (m	naximum 50)					
Street Address:		]						
City:								
State:	~	4						
State.								
Zip Code:		]						
		]						
	ns	]						
Zip Code:	ns Name V	-						
Zip Code: Search Optio		]						
Zip Code: Search Optic Sort By:	Name	Use selected party	Canc	-rel				

If the person is not in the system, click Cancel. You will return to the Create Event Screen. You can then enter the data about the person manually into the Add Person Section.

While the Add Person section minimally requires that the first name is provided by the user, the more data about the person that can be entered the better. Note that a couple of the fields are filled in by default (e.g. state and country), but if the information is incorrect, simply use the dropdown menu and select the appropriate entry. Any data that needs to be changed after entry can always be updated at a later time.

Add Person		
First Name:	Middle Name:	Last Name:
Jennifer		Annibel
Birth Date:	Gender:	Social Security Number:
		555-55-5555
Address Type:	Street Address:	
Home 💌	101 Maple Dr	
City:	State:	Zip Code:
Raleigh	NC 💌	99999
County:	Country:	
VVake County 🛛 🔽	USA	~
Home Phone:	Mobile Phone:	
(919) 555-5555		
Select Person		Clear
Save Cancel	Help	

Once the person information is entered, click the **Save** button. The system will then compare the entered person information to existing persons in the data base. If you missed a matching person during the search and the system finds a potential duplicate record for that person, it will open the Potential Matches screen (more on this in the chapter on Deduplication).

Clicking Save closes the Create Event window and brings the user back to the NC Lead dashboard, where information about the newly-created event is displayed.

<b>3 ℃</b> 8 8 99		8 - X G	en cen 🗉					Unload Event Logged a
ent Summary								
Basic Information						Notes (Add/Edit   Show My N	otes)	
Event ID:		0000005						
Event Type:		od Lead - Child						
Primary Person			Phone: (919) 555-51	565				
Address:			h, NC 99999 (Edt)					
Dates:		eate Date: 03/18/2	010					
Investigation Status:	Ope							
Linked Events: 0 linked event(s) (View)								
Entred Events: Attachments: Edit Event Properties		thachment(s) (Ad						
Attachments: Edit Event Properties	0 at							
Attachments: Edit Event Properties	0 at			Taaks	Event Properties	Evert History		
Attachments: Edit Event Properties ent Information Event Data Lnb Question Packages	0 at	Attachment(s) (Ad	g) Persons		Event Properties		LEPLATED INV	
Attachments: Edit Event Properties ent Information Event Data Lub Question Packages QUESTION PACKAGE	0 at	Attachment(s) (Ad	g) Persons NAM		Event Properties	LAST UPDATE	UPDATED BY	
Attachments: Edit Event Properties ent Information Event Data Lob Question Packages QUESTION PACKAGE Administrative	0 at	Attachment(s) (Ad	Ø Persons RAM Jerri	fer Annibel	Event Properties	LAST UPDATE 03/18/2010	Jgriesse	
Attachments: Edit Event Properties ent Information Event Data Leb Question Packages GLESTION PACKAGE Admissioner	0 at	Attachment(s) (Ad	Persons RAMM Jerri	l fer Annibel fer Annibel	Event Properties	LAST UPDATE 03/10/2010 03/10/2010	Jgriesse Jgriesse	
Attachments: Edit Event Properties ent Information Event Data Lob Question Packages QUESTION PACKAGE Administrative	0 at	Attachment(s) (Ad	Persons RAM Jerri Jerri	fer Annibel	Evert Properties	LAST UPDATE 03/18/2010	Jgriesse	

## **Creating a Property Event**

To create a property event, select Property for the event Type, then use the Select Site... button to search the database for property information. This allows the user to enter information into a search screen to locate a property that may already be in the NC Lead system.

ereale zreak insperiej				
Event Information				
Event Type:	Property	~		
Site				
Site Name:				
Street Address:				
01	0		1	
City:	Stat			
	N			
County:				
Select Site				Clear
Cara				
Save Cance	el Help			

## Create Event - Property

In the Search Party screen, set the Type dropdown to Site. Enter information about the property then click the Search button at the bottom of the window. If a record for the property is located, select the property from the list on the right side and click the "Use Selected Party" button.

Party Details:	Search Result	ts					
Category: Site 📘	Search Result	is					
ype:	Name		Street Address	City	State	Zip Code	External
ite ID:	101 Maple Dr, R	aleigh, NC 99999	101 Maple Dr	Raleigh	NC	99999	1100000
Name:	7909 Netherland	ds Drive, Raleigh, NC 27606 * Tara's Hou	se 7909 Netherlands Dr	ve Raleigh	NC	27606	1100000
Street Address:							
ity: Raleigh							
State:	Displaying result(	s) 12, (maximum 50)					
Zip Code:							
Search Options							
search options							
•	*						
ort By: Name							
Sort By: Name							

If the property is not in the system, enter the data about the property manually into the fields displayed, then follow the same instructions for creating a childhood lead event.

## **Question Packages**

In general, the Administrative Question Package is the first package a user should fill out after creating an event; it includes critical information about event assignment, as well as how and when the event was reported. Click on the View Question Package button (or double-click the name of the question package) and the administrative questions for that event automatically display on the screen. The Administrative Question package is shown below.

Administrative Package, Jennifer Annibel Blood Lead - Child	
	Save
Initial Source of Report to Public Health	V
* Reporting county	Wate County
* Blood Level	×
Date offered environmental investigation	
Non paid lead sources	Traditional medicine     Cocupation of household member     Intobley of household member     Cald occupation     Cardy     Cardy     Cardy     Toys     Concupation     Condy
Notes	
State Administrative Notes	
* Indicates required field	
Done	

Fill in the fields displayed on this screen. Required questions are indicated by an asterisk (\*). The user may answer the questions in any order.

After answering the questions click the Save button and the information is saved. Once the user clicks the Save button NC Lead reverts back to the Dashboard as seen below. Clicking the Cancel button will not save any of the changes/updates made to this page. It is recommended that users save frequently. The product times out after a half hour of inactivity. If the user does not click the Save button and the product does time out, the data that has been entered since the last save will be lost.

⇔%∎	18 🖬 🖻 🔮	🐏 🦮 Event	100000663. Gregory	y Wayne Bryan - Blood	Lead - Child				United Event Log:
nt Summary									
Basic Inform	tion					1	Notes (AddEdt)	Show My Notes)	
Event D:		100000663					17/14/2008 - Rober		
Event Type		Blood Lead - Child					his is an example	of a note	
Primary Perso Address	n.	Gregory Wayne B	riotte, NC 28202 (Ed)	25/2002 ( 5 yrs Male )	Phone	_			
Dates.		Create Date: 04/15							
Investigation 5	tatus:	Open							
Linked Events		1 linked event(s) (	View)						
Attachments.		1 attachment(s) (d							
Additional Info	rmation:	Linked cases	Contraction of the second						
The second second		100000695 - Jack	Black - 1243 Plano S	treet, Raleigh, NC 9999	9 [ <u>0265</u> ]				
Edit Eve	nt Properties								
nt Informatio									
nt informatio	in.								
	Lab Results		Persona	Tasks	Event Audt				
Event Data	Lao Hesuta	Concerna	Persona	10545	Trail				
Question Pa							23	- 2012031020	0.950-0000
QUESTION PA			NAME			LAST UPDAT	E	UPDATED BY	STATUS
Administrative			Gregory Wayne Br	yan		04/18/2008		rolivieri	Incomplete
Cinical Asses	sment		Gregory Wayne Br	yan		04/18/2008		rolivieri	Incomplete
Demographic			Gregory Wayne Br	yan		04/21/2008		roivieri	Incomplete
Medicald Billin	9		Gregory Wayne Br	yan		04/22/2008		roilvieri	Complete
View	Question Package	2							
	tkage - Details								
Name. Description				Administrative					
Name:				Oregory Wayne Brys	-				
Status:				incomplete					
	iestions:			6					
Number of Questions:				1					
Incomplete Re				04/18/2008					
Incomplete Re Last Update: Updated By:									

This is a sample set of question packages; the question packages may vary depending on the event type chosen.

The user is advised to open each question package and answer as many questions as possible until each question package has been completed.

#### Lab Results

In addition to answering questions in the question packages, there might be lab result information that must be manually added to an event. This can be done by clicking on the lab results tab.

Some laboratories will be submitting lab reports electronically to the NC Lead system. When this occurs, the electronic lab report (ELR) is either attached to an existing event in the system or if an event doesn't exist for the person yet a new event will be automatically created.

The biggest difference between a manually entered lab report and one that was created electronically is that the electronic ones are read-only. No data can be edited in these nor can data be added to them. Manually created lab reports can only be edited by people with the appropriate permissions.

If it is necessary to manually add lab results, click the Lab Results tab and then click the "Add Lab Result" button. In the Add Lab Result screen, choose the type of Lab Result.

The user can choose between adding Clinical, Environmental Sample, and Water Sample Lab Work.

Add Lab Result - Jennifer Annibel - Blood Lead - Child



Choosing Clinical displays the following screen.

Add Lab Result - Gregory Wayne Bryan - Blood Lead - Child

Lab Results		
Name: Gregory Wayn	e Bryan 🗸	
Lab Results: Lab Work	~	
Specimen Info		
Specimen Date*	Specimen Number	Specimen Source*
		×
Specimen Collection Volume	Specimen Collection Volu	me Units Specimen Received Date
Report Status	Report Change Date	
Tests		
Test*	~	Result
Result Value		Result Units Ref Range
Test Local Desc		Test Local Code Result Status
Result Local Desc		Result Local Code Delete
Comments		Result Date
	<u>^</u>	
	<b>V</b>	
Add		
Susceptibilities		
Method*	Test*	Result*
~	~	V
Result Value	Result Units	
Result Status	Test Local Desc	Test Local Code Comments Result Date Delete
Add		
Lab Facility		
Lab Facility		

Specimen Info	Details about the specimen. These include the date the specimen was taken, the number assigned to the specimen and the source of the specimen.
Tests	The details regarding the test that was done. These details include the test name, findings of the test and the date on which the results were determined. (The Delete link will display only for those users who have permission to delete a lab test result.)
Lab Facility	The laboratory where the test was analyzed.
Ordering	The doctor or clinic that ordered the test. This displays the detailed

Facilityaddress and phone information for that doctor or clinic.

Ordering The provider that ordered the test. (optional info) Provider

**Misc Info** Miscellaneous information and/or notes regarding the lab results.

Choosing Environmental Lab work displays the following screen.

Add Lab	Result	lennifer	∆nnihel	. Blood	Lead	. Child
Add Edb	nesure -	o c i i i i i c i	Annoci	- 01000	LCUU	- 011110

Lab Results		
Name: Jenni	fer Annibel 💌	
Lab Results: Enviro	onmental Sample 💌	
Order Info		
Order Number*	Collection Date* Date Received*	
Collector Name	Collector Phone Report Status Report Date	
Tests		
Lab Sample Number	Field Sample Number Specimen Source* Surface Type*	
Sample Description		
Test Description	Test Local Description	
	Delete	
Result Value	Units Reporting Limit Result	
Dust Wipe Length	Dust Wipe Width Dust Wipe Area Recomputed Result	
Dust wipe Length		
Hazard	Result Date	
Add		
Lab Facility		_
Lab Facility		<u>ک</u> آ
	Y	•
Lab Facility (Other)		
Name		
Address		
Phone		
CLIA		
Ordering Facility		
Ordering Facility		- 🔍 💼

Order Info	Details about the specimen. These include the collection date the specimen was taken, as well as additional details.
Tests	The details regarding the test that was done. These details include the test name, findings of the test and the date on which the results were determined. (The Delete link will display only for those users who have permission to delete a lab test result.)
Lab Facility	The laboratory that analyzed the test.
Ordering Facility	The physician that ordered the test. This displays the detailed address and phone information for that physician.

**Orderer** Name of the EHS person that ordered the test.

**Misc Info** Miscellaneous information and/or notes regarding the lab results.

## Exercise 3.1 – Create a New Event

The purpose of this exercise is to demonstrate the ability to create a new event within NC ELSS.

1. Decide on a name and a date of birth for a make-believe person and write the information in the spaces below:

Name (First/Middle/Last):\_\_\_\_\_

Date of Birth:\_\_\_\_\_

- 2. Click the Create Event button on the toolbar.
- 3. Select the Blood lead child from the dropdown list.
- 4. Click the Select Person button to verify that your make-believe person is not already in the NC LEAD database.
- 5. Enter the following information for your new event:
  - First Name, Last Name, Birth Date Please enter the name and birth date you specified above.
  - County: Choose Wake County
- 6. Click Add.
- 7. Click Save to create the new event.

# Searching for an Existing Event

Often it is necessary to view or edit an existing event. To search for an existing event, follow the steps below:

1. Click the Search Event button on NC Lead Dashboard toolbar and the following screen will appear.

Search Criteria	Search Res	ults					
Event ID:	Search Res	ults					
Last Name:	Event ID	Name	Birth Date	Status	Event Type	Create Date	External ID
First Name:							
Birth Date: Inexact)							
Gender:							
Street Address:	No search don	e					
City:	no coarcination						
State:							
Zip Code:							
County:							
Event Type:	~						
Search Options							
Sort By: Create Date 💌							
Sort By: Create Date  Sort Order: Descending							
	Use set	ected case		Cancel			

NC Lead provides multiple search criteria to find events. The user can use one or more of the search criteria to find a specific event.

#### Please note: the more search criteria provided; the fewer results will display. However, it is often better to put in less information (e.g. just a first name or a birth date) in the event the previous data entry does not exactly match the information you currently have.

Thus, the fewer criteria you put in, the more search results will be displayed. In most cases, it is therefore advisable to enter a small amount of criteria first, and then add more criteria to narrow the search.

Most searching within NC Lead system supports wildcard characters. To use a wildcard, type an \* wherever there are characters about which the user is unsure. For example, it would likely be useful to enter \*Gonzalez into the last name field. This way, if there is anything with Gonzalez as part of the last name; including Ramirez Gonzalez it will be found. At a minimum, the user must enter two characters before or after the wildcard to search.

Tip

Event searching is also tied to security. Users will only be able to view the cases they are authorized to see based on their group membership.

Event ID	Allows the user to search for a specific event if the Event ID is known.
First Name	Any First Name for whom the user wishes to search.
Last name	Any Last Name for whom the user wishes to search.
Birth Date	Any birth date using the mm/dd/yyyy search format.
Gender	Allows the user to search by gender.
State	Allows the user to specify the state of residence associated with the person.
County	Allows the user to specify the county of residence associated with the person.
Event Type	All event types are listed in this dropdown, however if the user only has permissions to see specific events, and selects a type of event for which the user does not have permissions, no results will be displayed due to the user's role.
Sort By	Provides two dropdown menus for the user to choose how the search results are presented. The first dropdown menu specifies which field to sort results by and the other dropdown specifies the order in which the results will be presented – ascending (alphabetical or numeric) or descending (reverse alphabetical or numeric).
Search History	Allows the user to broaden the search to include historical event/party history. When this box is checked, historical demographic / address information is also compared against the search criteria (e.g., old address or old event/party ID etc.).
Search Soundex	Allows the user to broaden the search beyond the literal spelling of the input search criteria; e.g., searching on "Tom" will also search on "Thom"; searching on "John" will also search on "Jack".

Please note that these search criteria are the minimum criteria that will be available. There may be additional criteria as well.

- 2. Enter parameter information into one or more of the event details fields. (For example, a first name or first few letters with a wildcard.)
- 3. Set the sort by criteria in the way you'd like the search results to appear.
- 4. Click Search. (Clicking the Clear button will delete any search parameters that have been entered.)
- 5. Search results will display in the table to the right of the screen, as shown.

Search Case								
Search Crite	ria	Search Resu	ılts					
Event ID:		Search Resu	ilts					
Last Name:	Ann*	Event ID	Name	Birth Date	Status	Event Type	Create Date	External ID
First Name:		10000005	Jennifer Annibel		Open	Blood Lead - Child	03/18/2010	110000005
Birth Date: (Inexact)								
Gender:	*							
Street Address:		Displaying result	t(e)1_1				er First e Dros	/1/1 Next>La
City:		Displaying resul	(3)11				series error	- TYT NOXES ED
State:	×							
Zip Code:								
County:	~							
Event Type:		~						
Search Optic	ons							
Sort By:	Create Date 💌							
Sort Order:	Descending 🔽							
Search History:		Use seler	cted case	Cancel				
Search Sounde:	×: 🔲							
Search	Clear							

- 6. Upon locating the event in question, select the corresponding line and click "Use selected Case" or simply double-click on the record.
- 7. This action automatically closes the search window and displays the selected event in the NC Lead dashboard.

The user can now update, print, or review the event information as required.

# **Recent Cases**

A simple alternative to searching for a recently viewed event is to use the Recent Cases button on NC Lead toolbar. This option is a quick method of locating the twenty most recent events on which the user has worked. To open an event using the Recent Cases button, follow the steps below.

- 1. Click the Recent Cases witton.
- 2. Look at the events listed in the table for the event to be edited.

Recent Cases					
Event ID	Name	Status	Event Type	Access Time	
100000663	Bryan, Gregory Wayne	Open	Blood Lead - Child	07/18/2008 07:38 AM	
100000882	Bryan, Marvin	Open	Blood Lead - Adult	07/14/2008 09:57 AM	

- **Event ID** The ID of the event. Click this number to view that event in NC Lead Dashboard.
- Person Person's full name.
- **Status** The investigation status of the event (open or closed).
- Lead The lead level associated with the person.
- Access Time The time the event was last accessed by the user.
  - 3. Click the Event ID of the event to be updated. This action will close the Recent Cases window and will open the event in NC Lead Dashboard.

## Exercise 3.2 – Search for Events

The purpose of this exercise is to demonstrate the ability to search for and locate an event within NC Lead.

1. Unload your event.



- 3. Search for events to answer the following questions:
- What event type is associated with Adam Hill's event?
- When is JoAnne Baker's birthday?
- On what date was Melanie Smith's event created?
- How many events are associated with people who have the first name Michael?
- Anna Ramirez-Gonzalez was just recently married. Her event was previously entered into NC Lead using her maiden name and a middle name. Locate her event. How old is Anna Ramirez-Gonzalez?

# Adding or Updating information in an Event

It is often necessary to add, change, or delete information in an existing event. To modify an existing event, follow the steps below:

Using one of the previously mentioned search techniques, locate the event to be updated. Once the event is located, the screen should look like this:

<i>G</i> % ⊑									
ent Summary									
Basic Inform	rtion	10000000000						I Show My Notes)	
Event ID:		100000663					07/14/2008 - Rob-	ert Olivieri	
Event Type		Blood Lead - Child					This is an example	e of a note	
Primary Perso	n:	Gregory Wayne Br	VAD Birth Date: 08/25	/2002 ( 5 yrs Male )	Phone				
Address:			lotte, NC 28202 (Edd)						
Dates: Investigation 5		Create Date: 04/18	2008						
Linked Events	tatus:	Open 1 linked event(s) ()							
Attachments.		1 stiachment(s) (4							
Additional Info	mation	Linked cases	ALCO GLIGHT						
Presentation and			Black - 1243 Plano Stre	et, Raleich, NC 9999	Ineg010				
-					- Louise				
Edit Eve	nt Properties								
ent Informatio	in								
		1				-			
Event Data	Lab Results	Concerna	Persona	Taska	Event Audt				
Event Data	Lab Results	Concerna	Persona	Tasks	Event Audit Trail				
		Concerna	Persona	Taska					
Question Pa	ckages	Concerna		Taska		LAST USDA	77		4745)A
Question Pa QUESTION PA	ckages cKAGE	Concerna	NAME			LASTUPDA	те	UPDATED BY	STATUS
Question Pa QUESTION PA Administrative	ckages cKAGE		NAME Gregory Wayne Brya	n		04/18/2008	те	rolivieri	Incomplete
Ouestion Pa QUESTION PA Administrative Clinical Asset	ckages cKAGE		NAME Gregory Wayne Brya Gregory Wayne Brya	in in		04/18/2008 04/18/2008	TE	rolivieri rolivieri	Incomplete Incomplete
Ouestion Pa OUESTION PA Administrative Clinical Asset Demographic	ckages CKAGE ament		NAME Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya	in in		04/18/2008 04/18/2008 04/21/2008	TE	rolivieri rolivieri rolivieri	Incomplete Incomplete Incomplete
Ouestion Pa QUESTION PA Administrative Clinical Asset	ckages CKAGE ament		NAME Gregory Wayne Brya Gregory Wayne Brya	in in		04/18/2008 04/18/2008	те	rolivieri rolivieri	Incomplete Incomplete
Ouestion Pa OUESTION PA Administrative Cinical Asset Demographic	ckages CKAGE ament		NAME Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya	in in		04/18/2008 04/18/2008 04/21/2008	TE	rolivieri rolivieri rolivieri	Incomplete Incomplete Incomplete
Question Pa QUESTION PA Administrative Clinical Asset Demographic Medicaid Bilin	ckages crkage sment 2		NAME Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya	in in		04/18/2008 04/18/2008 04/21/2008	TË	rolivieri rolivieri rolivieri	Incomplete Incomplete Incomplete
Ouestion Pa OUESTION PA Administrative Clinical Asset Demographic Medicaid Billin	ckages CKAGE ament		NAME Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya	in in		04/18/2008 04/18/2008 04/21/2008	TE	rolivieri rolivieri rolivieri	Incomplete Incomplete Incomplete
Guestion Pa OUESTION PA Administrative Clinical Asset Demographic Medicald Billin View	ckages crkage sment 2		NAME Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya	in in		04/18/2008 04/18/2008 04/21/2008	TE	rolivieri rolivieri rolivieri	Incomplete Incomplete Incomplete
Overstion Pa OUESTION PA Administrative Clinical Asset Demographic Medicald Billin View	ckapes ckAgE sment 9 Question Package		NAME Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya	in in		04/18/2008 04/18/2008 04/21/2008	TE	rolivieri rolivieri rolivieri	Incomplete Incomplete Incomplete
Ouestion P2 OUESTION P4 Administrative Cinical Asser Demographic Uedicaid Billin View Ouestion P2 Name Description	ckapes ckAgE sment 9 Question Package		NAME Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya	n n n Administrative Administrative	Trai	04/18/2008 04/18/2008 04/21/2008	TE	rolivieri rolivieri rolivieri	Incomplete Incomplete Incomplete
Ouestion P2 OuESTION P4 Administrative Demographic Medicald Billin View Ouestion 92 <sup>th</sup> Name Description Name	ckapes ckAgE sment 9 Question Package		NAME Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya	an in n Administrative Administrative Gregory Wayne Bryt	Trai	04/18/2008 04/18/2008 04/21/2008	TE	rolivieri rolivieri rolivieri	Incomplete Incomplete Incomplete
Clussion P2 OUESTION P4 Administrative Clinical Asset Denographic View View Ouession P4 Name Description Name Status:	ckages CKAGE sment 9 Question Package :kage - Details		NAME Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya	n n n Administrative Administrative Gregory Wayne Brys incompiles	Trai	04/18/2008 04/18/2008 04/21/2008	TE	rolivieri rolivieri rolivieri	Incomplete Incomplete Incomplete
Ouestion Po OutStTON PA Administrative Cinical Asser Demographic liedical Stim View Ouestion PD Name Description Name Status: Number of Q	ckages CKAGE sment 9 Question Package ckage - Details		NAME Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya	an in n Administrative Administrative Gregory Wayne Bryt	Trai	04/18/2008 04/18/2008 04/21/2008	TË	rolivieri rolivieri rolivieri	Incomplete Incomplete Incomplete
Ouestion Po OutStTON PA Administrative Cinical Asser Demographic liedical Stim View Ouestion PD Name Description Name Status: Number of Q	ckages CKAGE sment 9 Question Package :kage - Details		NAME Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya Gregory Wayne Brya	n n n Administrative Administrative Gregory Wayne Brys incompiles	Trai	04/18/2008 04/18/2008 04/21/2008	TE	rolivieri rolivieri rolivieri	Incomplete Incomplete Incomplete

## Modifying Question Packages

Much of the data entry and edits will be done within the question packages. First, click the question package that needs to be updated and make the changes necessary within the question package. Then, click Save to keep the changes. This action closes the question package screen and reopens the NC Lead Dashboard.

It is recommended that users save frequently. The application times out after a half hour of inactivity. If the user does not click the Save button and the application does time out, the data that has been entered since the last save will be lost.

#### Modifying Lab Results

If lab results need to be edited, click the Lab Results tab. Select the lab results to be changed and click Update Lab Result. Make the appropriate updates and click Save upon completion. This action will close the lab results page and once again display the NC Lead Dashboard.

# Changing the Event Type

If an event type needs to be changed, it is possible for someone with the appropriate permissions to change it. Open the event to be changed in the NC Lead dashboard. Click the Edit Event Properties button and change the Change Type to dropdown to the appropriate event type. The dropdown list shows only a limited number of types based on your original selection.

Remember that questions differ between event types so if the user changes the type for an event, all data that does not apply to the new type will be lost. Changing back to the original type will not restore the lost data.

## **Temporary Locks**

When a user is working on an event, other users are not able to work on the same event. The system automatically puts temporary locks on all active (open in someone's Dashboard) events. When a different user opens the event, a notice regarding who is already working on it is displayed.

The page	ge at http://ncedsstest.ncpublichealth.inf 🔀
	schang is currently updating the case. Access is readonly.
	ОК

This user will still have access to the event; however the access is **read-only**. It is important to recognize that if someone is viewing an event in a read-only state the fields in the question package still seem to be editable; however, the Save button is deactivated thus no data can be saved. In other words, **the event cannot be updated by two people at the same time.** 

#### Exercise 3.3 – Add/Modify Event Information

The purpose of this exercise is to demonstrate the ability to add or modify event information using NC Lead.

- 1. Load the event you created earlier.
- 2. Open a question package and add new information. Don't forget to save your changes.
- 3. Click the Lab Results tab in the Event Information section. Add a new lab result with two tests for the same specimen relevant to the associated lead for your event.
- 4. Click the Concerns tab in the Event Information section. Add a new concern. Set the severity of the concern to Very High.
- 5. Click the Edit link in the Event Summary section to add two (2) new Event Notes. Click Done. Click the Edit link once more and Edit the last note you added.

Learning Objectives:

- 1. Demonstrate the ability to edit person data.
- 2. Explain which data will display in future events for the person.

# **Person Information**

NC Lead stores a Master Patient Index in the database. This means that anytime a person is entered into the system, whether or not the event was reported and even if the event is closed immediately, the person exists as an entry in the database. Because this person now exists in the database, it is important to remember to reuse the person information rather than creating a new person entry in the system. Reuse of the data helps to keep data and reporting information as up-to-date and accurate as possible.

Let's look at an example: Jennifer Annibel has been entered in NC Lead as a contact of someone else. Two years later Jennifer Annibel is suspected of having high levels of lead. To create the new event in the system for Jennifer, remember to utilize the Select Person button on the create event screen. If Jennifer's personal information has changed since she was originally entered in the database two years earlier, please review the steps below to understand how to update her information.

# **Modifying Person Information**

Person information is entered in the Persons tab as well as in the Demographic Question Package. The information that is entered in the Persons tab is applicable to all events for the person. The information in the demographic question package is not necessarily the same across events. Please see below for the distinctions on these as well as information on how to enter/edit data in the persons tab.

# The Persons Tab

Modifying most information about the person is to be done using the Persons tab on the dashboard. Click the Edit button from this section to update or add information about the person. The Persons tab is also divided into several sub-tabs as noted below:

	on						
rent Data	Lab Results	Concerns	Persons	Tasks	Event Properties	Event History	
	1						
Persons		//*******		14.5	1121032234		1000 C
NAME		CENDER	BIRTH DA	TE	ADDRESS		STATUS
Jenniter Annibe	0				101 Maple Dr. R	taleigh, NC 99999	Active
Edit							
-							
	Address						
Basic		Links	Democrashi	C Notes			
Basic		Links	History	C Notes			
		Links		c Notes			
Informatio	n Information	Links		c Notes			
Informatio	n Information	Links	History	N/RC3			
Informatio Dasie Informa Name:	n Information	Links	History	erniter Annibel			
Informatio Dasic Informa Name: Dirth Date:	n Information	Links	History	N/RC3			
Informatio Dasic Informat Name: Birth Date: Age:	n Information	Linio	History	N/RC3			
Informatio Dasic Informat Name: Dirth Date: Age: Cender	n Information	Linis	History	ennifer Annibel			
Information Dasic Information Name: Dirth Date: Age: Cender: Social Security	n Information	Linis	History	enniter Annibel			
Information Name: Dirth Date: Age: Conder: Social Security External D:	n Information	Links	History JA	Notes			
Informatio Dasic Informat Nane: Birth Date: Age: Cender Social Security External ID: Street Address	n Information	Links	History .4 .5 .5 .1 .1	notes ennter Annibel 55-55-5555 10000005 21 Magie Dr			
Informatio	n Information	Links	History A S 11 11 1	Notes ennifer Annibel 55-55-5565 10000005 01 Maple Dr skiph			
Informatio Vasic Informat Name: Dirth Date: Age: Social Security External Dr. Street Address City: State:	n Information	Links	History Ja S 1 1 1 1 1 N N	Notes ennifer Annibel 55-55-5555 10000005 21 Magle Dr aleigh C			
Informatio Usei C Informat Name: Birth Date: Age: Cender Social Security External D: Street Address City. Street Address City. State: Zip Code:	n Information	Links	History X S 1 1 1 1 1 8 8 9 9	Potes enoriter Annibel 55-55-5555 50 Magle Dr sleigh C 3999			
Informatio	n Information	Linia	History 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nviter Annibel 55.55.5555 0000005 001 Magle De sleigt C 2999 3999 Mae County			
Informatio Name: Dirth Date: Age: Gender Social Security External ID: Street Address Oity. Street: Zip Code: Country: Country:	n Information	Linia	History 3 S S S S S S S S S S S S S S S S S S	nutes snrifer Annibel ss.ss.ss.sss 10000005 01 Magie De seligt 2999 ave County SA			
Informatio	n Information	Linis	History 3 S S S S S S S S S S S S S S S S S S	nviter Annibel 55.55.5555 0000005 001 Magle De sleigt C 2999 3999 Mae County			
Informatio Name: Dirth Date: Age: Gender Social Security External ID: Street Address Oity. Street: Zip Code: Country: Country:	n Information	Links	History 3 S S S S S S S S S S S S S S S S S S	nutes snrifer Annibel ss.ss.ss.sss 10000005 01 Magie De seligt 2999 ave County SA			

## The Edit Button

Click the Edit button to make changes to nearly all person information. This includes changes to date of birth, social security number, address changes, address additions, name changes, etc. The Edit Person screen is shown below, observe that the form on the top of the page includes demographic information, the middle of the screen lists the addresses, and the lower form provides further information about the addresses and the ability to edit them.

Edit Person		
First Name:	Gregory	
Middle Name:	Wayne	
Last Name:	Bryan	
Birth Date:	08/25/2002	
Gender:	Male 🗸	
Social Security Number:		
Deduplication Status:	Done 🗸	
Save Cance	el	
Addresses		
Туре	Address	Phone
Home	800 S Mint St, Charlotte, NC 28202	
Vacation Home	7305 North Point, Winston Salem, NC 27101	
Add Address	Remove Address	
Edit Address		
Address Type:	Home 💌	
Start Date:	07/14/2008	
End Date:	01/01/2030	
Street Address:	800 S Mint St	
City:	Charlotte	
State:		
Zip Code:	28202	
County:	Meddlenburg County	
Home Phone:	Medicineirg county	
Mobile Phone:		
incolor none.		
Save Cance	el Help	

## Using the Person Sub-Tabs

Basic Information	Address Information	Linked People	Demographic History	Notes	
----------------------	------------------------	---------------	------------------------	-------	--

The five sub-tabs below the Person tab allow the user to update, edit or view information about the person.

#### **Basic Information**

The basic information tab contains the most recently entered information about the person such as name, address, birth date, age, gender. This information is available for viewing only. To make changes to the Basic Information, click the Edit button referenced above.

Basic Information		
Name.	Jennifer Annbel	
Maiden/Other Name:		
Alas:		
Birth Date:	02/03/2004	
Death Date:		
Age:	4	
Gender	Female	
Social Security Number:		
Street Address:	1608 Glenwood Ave	
City: Official City:	Raleigh	
Official City.		
State.	NC	
Zip Code.	27608	
County:	Wake County	
Country:	USA	
Home Phone:		
Mobile Phone:		
Work Phone:		
Contact Method:		
External ID:	PDEDWVUOVCBUNS	
GIS Info.	Lattude:35.80, Longitude78.65, Tract.516, Block.2012, Status:Successful View Mag	

#### **Address Information**

The address information tab contains information regarding the person's addresses. This is where information regarding both current and past addresses is accessible. The person's address information can be edited or updated. Clicking the Add Address or Edit Address buttons takes the user to the lower part of the Edit Person screen.

Basic information	Address	Linked People	Democrachic	Notes.	Edit Person		
Dane entremote	Information	Thisto Laboration	Hatory		Prochate:	annae	3
THE R. LEWIS CO.					Made Name		-
Address Informatio	N 2120 2233				Lest faine:	Armital	3
TYPE	ADORESS				Sutte		
ione	1608 Glenwood A	Ave, Raleigh, NC 27608			Matter/Otter Name .		
					rites		
					Both Date:	82.83.2004 72	
					Death Date	10	
					Center	Aprila a	
					Sacal Security Number		
Add Address	Edt Address	lenove Astress			Mother's Master Same		and a
-					Deduplicatori Datuk	Dava (m)	
ddress listory	-						
Start Date	-		01/03/20		tave Caniel		
End Date:		-	01/01/00				
Street Address:		-		erwood Ave	A001000		
City			Raieigh		7)(# A88#66	10 / V	Plate
State			-			Rawyn, nC 27102	
Zip Code:			27608 Wake Co				
Country Country			USA	ounty	~		
Home Phone							
Voble Phone							
Work Phone:					Add Address   Name of Add	from .	
Contact Wethod:					Concentration Concentration		
GS Info			Lattude	15.80092 Longtude	-78.649		
					EditAddress .	1961 f	
						mune (Seamany) ] w]	
						re et 2008 🔁	
						144-2008 (C)	
					Steel Address		
					City:		
					Side [		
					Zy Cole		
					County	(w)	
					Chartry:		
					Pone Phone	100	
					Mathe Phone		
					York Parent	1000	
					Carleit Method		



Every person in the system must have a minimum of one address associated with him. If no address is entered, a home address with simply North Carolina as the state will be automatically created.

## **Updating Address Information**

The Edit Address button allows the user to update or change the person's address. For example: if the patient has recently moved, the user would click the Edit Address button to change their address.

The Start Date and End Date fields allow the user to enter a date range for the address. When a new event is created, the Start Date defaults to the date the event was created and the End Date defaults to 1/1/2030. When the user makes changes to the person's address in an existing event, the Start Date of the new address will default to the current date. Likewise, the End Date of the previous address defaults to the current date. Therefore, when an address is edited, it is not necessary for the user to either create a start date for the new address or create an end date for the previous address; NC Lead will do this automatically. However, if the user would like the patient's new address to have an earlier start date, she may change the default date.

Edit Address		
Address Type:	Home	
Start Date:	07/14/2008	Start Date and End
End Date:	01/01/2030	Date fields
Street Address:	800 S Mint St	
City:	Charlotte	
State:	NC 💌	
Zip Code:	28202	
County:	Medklenburg County	
Home Phone:		
Mobile Phone:		
Save Cancel	Help	

#### **Address History**

Once an address is modified, NC Lead keeps track of the address history. The address history appears at the bottom of the screen. The most recent address information is at the top of the list, with the previous address information below it.

Basic Information	Address Information	Linked People	Demographic History	Notes	
Address Informatio					
TYPE	ADORESS				PHONE
Home	125 Bedrock La	ne, Raleigh, NC 27809			
Work	1109 Dear Vale	y Hoad, Haleigh, NC 27	101		
	-				
Sold Failures	Total Academics	manage digitization			
Contrast of States of States of States	Contract Contract Contract	Name of Party and Party of			
Address History					
Start Date:				01/03/2008	
End Date:				01/01/2030	
Street Address:				125 Bedrock Lane	
City:				Raleigh	
State.				NC	
Zie Code:				27609	
County:				Wake County	
Country:				USA	
Home Phone:				0.34	
Noble Phone:					
Work Phone:					
Contact Method:					
GIS Info:				Lattude	de-999.0 , Tractinull , Blockinull , Status Pending
Start Date:				01/01/1900	es, and a contract production and an and an and an and a second se
End Date:				01/03/2008	
Street Address				1238 Rogers Ave	
City.				Raleigh	
State:				NC	
Zo Code				27699	
County:				Wake County	
Country.				USA	
Home Phone:				10.00	
Mobile Phone:					
Work Phone:					
Contact Method:					
GIS Info:				Latitude -999.0 , Long	

Notice the image above, the address information which displays at the bottom of the screen for whichever is the selected address is the historical data; this is evident by looking at the start and end dates. The oldest addresses will be at the bottom and the newest, most up-to-date information will be at the top of the list.

#### Adding Additional Addresses

NC Lead allows several types of addresses (home; work; etc.) to be simultaneously stored in the system. Clicking the Add Address button allows the user to add a **different type of address** for the person. For example, a user may need to add a work address or a vacation home address for a person who only has a primary home address in the system.

Use the Address Type dropdown menu to select the type of address being entered. The user is only able to enter one of each type of address for the person.

Edit Address	
Address Type:	Home (Secondary) 🗸
Start Date:	Home (Secondary) Work
End Date:	Work (Secondary)
Street Address:	Company Guardian
	Mailing Vacation Home
City:	Other
State:	NC 💌
Zip Code:	
County:	

#### **Removing Addresses**

Clicking the Remove Address button will allow a user to delete an address that's no longer relevant. **Note that if the Remove Address button is clicked, it removes not only the current address, but all addresses of this type in the address history.** For example, if a user highlights the work address and clicks Remove Address, this work address and any previous work addresses in the history will be deleted. The user is not prompted to be sure that he wants to remove the address, the address is simply deleted. Please be cautious about using this button, particularly for home address.

## Demographic History

The demographic history tab is where information such as a person's last name can be tracked. If a person changes his/her name for any reason, the historical names are noted here.

Similar to the address history, the older information is located at the bottom of the list.

Basic Information	Address Information	Linked People	Demographic History	Notes				
Demographic Histor	TV							
Start Date:	,	0(	5/21/2006					
End Date:			1/01/2030					
First Name:			anne					
Middle Name:								
Last Name:		N	Newman					
Birth Date:		0.	02/27/1930					
Gender:		F	Female					
Social Security Numb	er:	44	44-44-4444					
Start Date:		0	1/01/1900					
End Date:		00	5/21/2006					
First Name:		Jo	Joanne					
Middle Name:								
Last Name:	Last Name:		Woodward					
Birth Date:		03	02/27/1930					
Gender:		F	emale					
Social Security Numb	er:	4	44-44-4444					

#### Notes

The notes section is used to keep track of notes that are related to the person, not to the event. These would be notes such as the fact that a person is blind, paraplegic, or has Down's syndrome; these things are unlikely to change over time and are not necessarily specific to a person's event. Just as with the event notes, the date and user name are associated with each person note entered.

Basic Information	Address Information	Linked People	Demographic History	Notes	
Notes					
06/21/2006 - Mike Finl This is just a sample n		rsons section of Joani	ne's case.		
Add Note					

It is important to recognize the difference between Event Notes which are entered in the Event Summary section of the dashboard and the person notes which are entered in the Persons tab. The event notes won't show in any other past or future event(s) this person may have. On the other hand, the person notes persist with the person. Both types of notes have a public vs. sensitive setting; please remember this when adding notes.

# The Demographic Question Package

Demographic data is also collected within one of the question packages. The fields in the Demographic question package which are grayed out are the fields which need to be updated in the Persons tab. The quickest way to view the Edit Person screen from any question package is to click the person's name at the top of the screen. This is a shortcut to the Edit Person screen.

nographic Package, <u>Jennifer Annil</u>					
					Save Cano
		Demograph	ic Data		
Child's first name	Jennifer		Child's middle name		Child's last Annibel
Date of birth					
	555-55-5555		Medicaid number		
	555-55-5555		Confirmed SSN Verific	ed? No 💌	
Gender	·				
Race	×				
Hispanic origin?	×				
Is the child a refugee?	×				
Is the child enrolled in the WIC program?	<b>×</b>				
From multiple birth such as twin, triplet, etc.	×				
Is the child deceased?	×				
Home phone	(919) 555-5555		* Mobile phone		
Parent/Guardian first name			* Parent/Guardian last		
			name		
Additional notes					
Additional notes					
	181 Maple Pr	Address info	rmation		
Additional notes	101 Maple Dr			- Vourade	[899000
* Street address * City	Rateigh	Address Info		* Zip code	99999
Street address City County	Rateigh Wake County			* Zip code	[88998
Street address City County	Rateigh	* State	NC 🛩	* Zip code	99999
Street address City County Date residence began	Rateigh Wake County		NC 🛩	* Zip code	99999
* Street address	Rateigh Wake County	* State	NC 💌	* Zip code	99999
Street address City County Date residence began Street address	Rateigh Wake County	* State Guardian/Parent Mailing	NC 💌		99999
Street address City County Date residence began Street address City	Raleigh Wlake County III	* State Guardian/Parent Mailing	NC 💌		99999
Street address City County Date residence began Street address City County	Ralegh Wake County	* State Guardian/Parent Mailing	Address Information		99999
Street address City County Date residence began Street address City County	Ralegh Wake County	• Slate Guardian/Parent Mailing • Sl	Address Information		99999
Street address City County Date residence began Street address City County Date residence began	Ralegh Wake County	• Slate Guardian/Parent Mailing • Sl	Address Information		99999
Street address City County Date residence began Street address City County Date residence began	Ralegh Wake County	• Slate Guardian/Parent Mailing • Sl	Address Information		99999
Street address City County Date residence began Street address City County Date residence began	Ralegh Wake County	• Slate Guardian/Parent Mailing • Sl	Address Information		99999
Street address City County Date residence began Street address City County Date residence began Next of kin notes	Raleigh	• Slate Guardian/Parent Mailing • Sl	Address Information		99999
Street address City County Date residence began Street address City County Date residence began	Ralegh Wake County	• Slate Guardian/Parent Mailing • Sl	NC v		99999

An interesting note about the Demographic package is that there is some data on this screen that will change over time, like a person's preferred contact number. There is also data that will remain constant over time, such as a person's race. However, due to some constraints of the application, this data is collected in the Demographic question package instead of in the Persons tab. To alleviate a need for repetitive data entry, some of the fields in the Demographic question package can be pre-populated based on the most recent event for that person in the system. The fields that are copied from one Demographic question package to the next are as follows: race, Hispanic ethnicity, country of birth, and primary language.

If this data is entered in a person's first event and then changed in a second event, the subsequent event(s) will display the most recently entered data (i.e. from the second event) until further changes are made.

This behavior is unique to the Demographic question package. All other question package data is entered for each event in the system and none of the rest of this data is copied from one event to another.

## Exercise 4.1 – Modify Person Information

The purpose of this exercise is to demonstrate the ability to modify person information within NC ELSS.

- 1. Where would the user make changes to a street address?
- 2. Where would the user change the patient's primary language?
- 3. Which fields from the Demographic question package carry over if the patient has an illness in the future?
- 4. Make a change to the home street address for your event.
- 5. Add a vacation home address for your event.

# Chapter 5: The Workflow Queue and Tasks

Learning Objectives:

- 1. Explain the importance of the Workflow Queue.
- 2. Demonstrate how to interact with the Workflow Queue.
- 3. Explain the importance of tasks.
- 4. Perform a task.
- 5. Assign an existing task.
- 6. Create and assign a new task.
- 7. Share a case.

# WORKFLOW QUEUES

Workflow Queues are important in NC Lead because they allow users to keep up with events and work that needs to be done. Events can be placed in workflow queues automatically based on what has happened or has to happen with the event. Also, events can be placed in workflow queues manually in the form of a task. Task events are located in the Task Specific Monitors Workflows.

On the Workflow Queues screen, workflow queues are differentiated from one another as Case Specific Monitors or Task Specific Monitors. The primary difference between the Case Specific Monitors and the Task Specific Monitors is that the Case Specific Monitors are triggered automatically by something in the system (such as missing data) and don't have a specified due date. Task Specific Monitors usually have a due date and are often manually created.

NC Lead users will be expected to stay abreast of Workflow Queues. It is recommended that users refer to them on a daily basis.



Workflow Queues are all based on custom requirements. The queues in an actual implementation may vary. They will also differ by user according to group and role.

Workflow Queues		
Workflow Queue	Total Count (Assigned to me)	Details
Case Specific Monitors		
Active Site Investigations (11/25/2000 04:14 PM EST)	0(0)	
Adult Lead Information Request Letters Missing Response (11/25/2008 04:14 PM EST)	114 (0)	Details
Châthood Lead Elevated Events Not Assigned to User or Group (11/25/2008 04:05 PM EST)	0(0)	
Childhood Lead Events with System Generated Concerns (11/25/2008 04:05 PM EST)	1633 (1)	Details
Childhood Lead Events with User Generated Concerns (11/25/2008 04:05 PM EST)	2 (0)	Details
Chathood Lead Poisoned Events Not Assigned to User or Group (11/25/2008 04:05 PM EST)	0 (0)	
Childhood Lead cases where case is associated to a property with more than one active case (11/25/2008 04:05 PM EST)	14 (0)	Detain
Confirmed Lead Poisonings (Open Investigations) (11/25/2008 04:14 PM EST)	0 (0)	
Elevated Lead Cases for children older than 6 years (11/25/2008 04:14 PM EST)	1283 (0)	Details
Open Cases - Assigned to Current User (11/25/2008 04:14 PM EST)	(1 (1)	Details
Open Cases - Unassigned (11/25/2008 04:14 PM EST)	1987 (0)	Details
Open Cases Pending 10 Days or More (11/25/2008 04:14 PM EST)	457 (1)	Details
Open Lead Events (11/25/2008 04:14 PM EST)	1647 (1)	Details
Shared Cases - Cases shared by me (11/25/2008 04:14 PM EST)	1 (1)	Details
Deduplication/Import Monitors		
Person Deduptcation (11/25/2008 04:14 PM EST)	3 (0)	Details
Site Deduplication (11/25/2008 03:55 PM EST)	1587 (0)	Details
Case Deduptication (11/25/2008 D4 14 PM EST)	1 (0)	Details
Task Specific Monitors (Add Task)		
Completed Tasks Created by Me (11/25/2008 04.14 PM EST)	0(0)	
My Groups' Open Tasks (11/25/2008 04:14 PM EST)	4(0)	Details
My Open Tasks (11/25/2008 04:14 PM EST)	2 (2)	Octain
My Overdue Tasks (11/25/2000 04:14 PM EST)	3 (1)	Detain
Open Tasks Created by Me (11/25/2008 04-14 PM EST)	2 (2)	Details
Overdue Tasks Created by Me (11/25/2008 04:14 PM EST)	3 (1)	Detain

Dashboard Help

The fields within the workflow screen are described below:

Workflow Queue	The name of the query which describes the condition of the events.
Total Count (Assigned to me)	The number of events that have been triggered by the specific monitor and the number within the parentheses () is the number of events that have specifically been assigned to the user.
Details	Clicking the link within this column will open a new screen which provides further detail about the event(s) in the queue.
Case Specific Monitors	These automatically run monitors that describe the condition of events. These vary depending upon the user's permissions within the system. For NC Lead these workflows are categorized according to Clinician and Environmental Health Specialist.
Task Specific Monitors	Tasks that have been assigned to a specific user or group which were created manually and may have a due date associated. Task specific monitors are always cleared manually by the user completing the task.

## **Case Specific Monitors**

A case specific monitor is automatically "watching" for a specific occurrence which will trigger it. These occurrences may vary from event to event and role to role. An example of a case specific monitor is when an electronic lab result leads to the creation of a new event within NC Lead. A Case Specific Monitor may display that there are new events in a users (clinical or environmental health) workflow. A message would then be displayed in the appropriate users' or groups' Workflow Queue. Usually these types of monitors can be cleared and the workflow queue emptied by filling in a field (or fields) in a question package.

NC Lead runs queries intermittently throughout a 24 hour period. Some workflow queries run 1 time in 24 hours, where others may run as frequently as every 5 minutes. The frequency with which the workflow query runs is based on the criticality of the workflow as well as the burden on the system.

It is not necessary to have an event open in order to view the Workflow Queue. To interact with the Workflow Queues, follow these steps:

- 1. After logging into NC Lead, click the Workflow button on the Dashboard in the NC Lead toolbar.
- 2. Observe that the Case Specific Monitors for the specific user are listed.

Workflow Queues		
Workflow Queue	Total Count (Assigned to me)	Details
Case Specific Monitors		
Active Ste Investigations (11/25/2008 04:14 PM EST)	0(0)	
Adult Lead Information Request Letters Making Response (11/25/2008 04:14 PM EST)	114 (0)	Details
Childhood Lead Elevated Events Not Assigned to User or Group (11/25/2008 04:05 PM EST)	0(0)	
Childhood Lead Events with System Generated Concerns (11/25/2008 04:05 PM EST)	1633 (1)	Details
Childhood Lead Events with User Generated Concerns (11/25/2008 04:05 PM EST)	2 (0)	Details
Childhood Lead Poisoned Events Not Assigned to User or Group (11/25/2008 04:05 PM EST)	0 (0)	
Childhood Lead cases where case is associated to a property with more than one active case (11/25/2008 04-05 PM EST)	14 (0)	Details
Confirmed Lead Poisonings (Open Investigations) (11/25/2008 04:14 PM EST)	0 (0)	
Elevated Lead Cases for children older than 6 years (11/25/2008 04:14 PM EST)	1283 (0)	Details
Open Cases - Assigned to Current User (11/25/2008 04:14 PM EST)	1 (1)	Details
Open Cases - Unassigned (11/25/2008 04:14 PM EST)	1987 (0)	Details
Open Cases Pending 10 Days or More (11/25/2008 04:14 PM EST)	457 (1)	Details
Open Lead Events (11/25/2008 04:14 PM EST)	1647 (1)	Detain
Shared Cases - Cases shared by me (11/25/2008 04:14 PM EST)	1 (1)	Detais
Deduplication/Import Monitors		
Person Decupication (11/25/2008 04:14 PM EST)	3 (0)	Details
Site Deduplication (11/25/2008 03:55 PM EST)	1587 (0)	Details
Case Deduplication (11/25/2008 04:14 PM EST)	1 (0)	Details
Task Specific Monitors (Add Task)		
Completed Tasks Created by Me (11/25/2008 04:14 PM EST)	0(0)	
My Groups' Open Tasks (11/25/2008-04:14 PM EST)	4 (0)	Details
Wy Open Taska (11/25/2008 04:14 PM EST)	2 (2)	Details
Iy Overdue Tasks. (11/25/2000 04:14 PM EST)	1 (1)	Details
Open Tasks Created by Me (11/25/2008 04:14 PM EST)	2 (2)	Details
Overdue Tasks Created by Me (11/25/2008 04:14 PM EST)	1(1)	Detain

Dashboard Help

3. Click Details beside the appropriate workflow queue name and a screen similar to the one below will appear.

electal Clear al							
hildhood Lead Events	with User Generated Concerns (Type: Case) 11/25/2	003 04:05 PM E ST					
lvent	Name	Status	Create Date	Event Type	Lest Update	Assigned To	Assigned To Group
100000520	WILSON, OLLIE (RALEIGH, NC)	Open	02/05/2008	Blood Lead - Child	11/20/2008		
10000065	Ward, Tena Lead (North Pole, NC)	Open	09/26/2007	Blood Lead - Child	11/07/2008		Environmental
Displaying result(s) 1.2							«« First « Prev 1/1 Next » Last

Workflows Dashboard Help

- **Event** The Event ID. Often, in this column is a link to the specific question package where data entry (or other task) is to be done. If the queue requires that the user update information in more than one question package, the Event ID will display as a link to take the user to the dashboard for that event.
- **Name** The name of the Child.
- **Status** The status of the event.
- **Create Date** The date the event was created.
- **Event Type** The event type specified (i.e.: Blood Lead Child)
- Last Update The last time something was changed in this event.
- **Assigned To** The person to whom this event is assigned.

Assigned to	The group to whom this event is assigned.
Group	

Other actions performed on this page are noted below:

**Select all** Places a check mark inside the checkboxes to the left of each event. Checking multiple (or individual) events allows for an action to be completed on those events, such as reassigning them or performing a bulk action on them. (See below for more information about bulk actions.)

**Clear all** Removes any checks within the checkboxes.

Assign<br/>selectedAllows the current user to assign selected events to a specific<br/>NC Lead user. Check the box beside all events that are to be<br/>assigned to the new user.

Assign<br/>selectedAllows the current user to assign selected events to a specific<br/>NC Lead group. Check the box beside all events that are to<br/>be assigned to the new group.groupgroup

- 4. Click the link beside the Event ID if applicable. This will either open the appropriate question package or open the event to the dashboard so that the required action(s) may be performed.
- 5. Remember that upon making changes to question packages, click the Save button. This action returns the user to NC Lead dashboard for the currently active event.

If it is necessary to assign the event to another person or group, check the events to be assigned first and then use the appropriate dropdown list (user and/or group) and select the appropriate user or group. Then click the Reassign button. Use the Workflows button to go back to the Workflow Queue page or the Dashboard button to return to the Dashboard.

If the user tries to assign an event to someone who does not have permission to view the event, the event will not be assigned and the user will see a note at the top of the screen indicating the following:

#### "Warning":

The group selected does not have access to at least one of the selected cases."



When assigning an event in the workflow queue, it's important to recognize that the event will also be assigned to that user or group if the same event is listed in other workflow queues.

#### Exercise 5.1 – Interacting with Workflow Queues

The purpose of this exercise is to demonstrate the ability to interact with Workflow Queues in NC Lead .

1. What is the purpose of Workflow Queues?

- 2. Click the Workflows button on the toolbar. Find a workflow queue named "Childhood Lead Events with User Generated Concerns." Find your event within that queue.
- 3. Open your event by clicking on the Event ID link. Next, click the Concerns tab in the Event Information section, and find the concern you created in exercise 3.3. Update the concern by changing the value of the Status field to Resolved and save your changes. Click the Workflows button once again. Has your event been removed from the queue?
## Tasks

Similar to the items in the Case Specific Monitors, a task within NC Lead is another technique for users to delegate assignments or work to others. The major difference between task and case specific monitors is that task monitors have a due date while case specific monitors do not. Tasks can be accessed from three places: the toolbar on the dashboard (Tasks button), the Add Task button in the Tasks tab in the Event Information section, and from the Workflow Queues page (the Add Task link under Task Specific Monitors). All three provide similar information but offer slightly different views and functionality.

Task creation can be different depending upon where the user initiates the create task action.

- If the user clicks the Add Task button under the Task tab, they can only create an event-specific task.
- If the user clicks the Add Task link from the Workflow Queues page (under Task Specific Monitors), they can only create a general (not event-specific) task.
- If the user clicks the Tasks button on the toolbar, they can create both the task can be associated with the currently active event or it can be non-event specific.

An example of a task that would be associated to a specific event is to ask a user to contact the patient for an interview. An example of a non-event specific task would be to ask a user (or group) to review lab results for all of the EBL events that have been received in their jurisdiction recently to check for similarities to previous EBL cases.

### Create and Assign a New Task

Again, it is important to note that tasks can be associated or not be associated with a specific event. The steps to create either type of task are virtually the same. Follow the procedures outlined below, but first determine if the task you need to create is associated with a specific event.

## Create an Event-Specific Task

- 1. If it is necessary to create a task specific to an event, first **open the event** in NC Lead dashboard.
- 2. Click the Tasks button on NC Lead toolbar. Then click the Add event task button.

Add event task	Add Task	Dashboard	Help
	•		

OR

Click the Tasks tab in the Event Information section. Then click the Add Task button.

vent Data	Lab Results	Concerns	Persons	Tasks	Event Audit Trail		
Tasks							
TYPE	STATUS	PRIORITY	DUE DATE	DESCRIPTION	ASSIGNED TO	ASSIGNED TO GROUP	
Type: Status:							
Type: Status:							
Type: Status: Priority:							
Type: Status: Priority: Due Date:							
Type: Status: Priority: Due Date: Description	:						
Type: Status: Priority: Due Date: Description Assigned T	0:						
Type: Status: Priority: Due Date: Description	o: o Group:						
Type: Status: Priority: Due Date: Description Assigned T Assigned T	io: io Group: e:						
Type: Status: Priority: Description Assigned T Assigned T Create Date	io: io Group: #:						
Type: Status: Priority: Due Date: Description Assigned T Assigned T Create Date Created By	io: io Group: i: : :						

Clicking this button brings up the following screen.

#### Add Task

Task Information					
Event:	100000005 - Jennifer Annibel - Blood Lead - Child				
Type:	Assignment 💙				
Status:	Pending V				
Priority:	Very Low 💌				
Due Date:					
Start Date:					
Complete Date:					
Description:					
Notes:					
Assign to user:	✓				
Assign to group:	✓				
Save	Cancel Help				
vent	The Event ID, Full Name, and Disease to which a task is to be associated. (This will not appear if the task is not specific to an event; instead the user will see "Not specific to a case.")				
уре	The type of task: assignment, outreach, business rule, investigation, other.				
tatus	The status of the task. The status will be Pending by default when a task is first assigned. The statuses include Pending, In Progress, and Completed.				
Priority	Assigns a specific priority to the event. (Very High, High, Medium, Low, Very Low)				
Due Date	The date by which the task is to be completed.				
tart Date	The date that work on the task begins.				

**Complete Date** The date entered by the user completing the task;

Description	Describes briefly the task to be accomplished.
Notes	Further notes regarding the task to be completed.
Assign to user	A dropdown list of users on NC Lead system.
Assign to group	A dropdown list of groups on NC Lead system.

- 3. Select the type of task from the dropdown list.
- 4. The status of the task is most likely Pending since the user is creating the event, but if it's something other than Pending, select the appropriate option from the list.
- 5. Select the priority of the task and if necessary, set the due date of the task.
- 6. Enter a brief but concise description of the task to be done so that the assignee has a clear understanding of what is to be done. Add notes to clarify if necessary.
- 7. Select the correct user or group from the appropriate dropdown list.
- 8. Click the Save button. (Repeat steps 1-9 to create and assign another task.)

Alternatively, another way to create an Event-Specific task is to click the Tasks Tab in the Event Information section of the NC Lead dashboard. Click the Add Task button and then follow the steps beginning at step 4 above.

#### Create a Non-Specific Task

- 1. For the purposes of this exercise, assume the task is not specific to an event.
- 2. Click the Tasks button on NC Lead toolbar. Then click the Add Task button.

#### OR

- 3. Click the Workflow Queues button from NC Lead toolbar.
- 4. Beside Task Specific Monitors, click the Add Task link.

ask Specific Monitors (Add Task)		
Completed Tasks Created by Me (Hells Iffair 30 days old) (01/09/2008 11:31 AM EST)	0 (0)	
Wy Groups' Open Tasks (01/09/2008 11:31 AM EST)	0(0)	
My Open Taska (01/09/2008 11:35 AM EST)	6 (6)	Details
My Overdue Taska (01/05/2008 11:31 AM EST)	1 (1)	Details
Open Tasks Created by Me (01/09/2008 11:31 AM EST)	9(6)	Detain
Overdue Tasks Created by Me (01/05/2008 11:31 AM EST)	3(1)	Octain

Clicking this link brings up a screen similar to the following screen.

Add Task

Task Information	
Event:	Not specific to a case
Туре:	Assignment 💌
Status:	Pending 🐱
Priority:	Very Low 💌
Due Date:	
Start Date:	
Complete Date:	
Description:	
Notes:	
Assign to user:	
Assign to group:	
Save	Cancel Help

5. Follow the steps above beginning with step 4. Continue as before through the rest of the steps.



From the Tasks screen, clicking the button that reads "Add Task" will create a task which is non-specific to an event.

#### **Complete a Task**

Task information provided on the Tasks screen which is accessed via the Tasks button from the Dashboard is different than the task information on the Workflow Queues screen. The Tasks screen displays tasks which are specific to the event that is currently open in the Dashboard – regardless of whom the task is assigned. Additionally, on the Tasks screen all tasks which are assigned to the current user – regardless of which event they are assigned – will also display.

The task information on the Workflow Queues screen is displayed in several queues within the Task Specific Monitors. The queues displayed on this screen are as follows:

Completed Tasks Created by Me (less than 30 days old)	Completed tasks that have been assigned by the current user within the last 30 days.
My Groups' Open Tasks	Displays a list of tasks that have been assigned to any group or groups of which the user is a part.
My Open Tasks	Displays a list of open tasks that have been specifically assigned to the user.
My Overdue Tasks	Displays a list of the tasks which have been assigned to the user which are past their due date.
Open Tasks Created by Me	Incomplete tasks that have been created by the user.
Overdue Tasks Created by Me	Incomplete tasks that have been created by the user which are past due.

Given that there are two ways to access task information, the steps to perform a task in both locations are discussed below.

#### From the Workflow Queue:

- 1. Click the Workflows button on the Dashboard
- 2. Observe the tasks that are listed in the Task Specific Monitors.

Workflow Queues

lorkflow Queue	Total Count (Assigned to me)	Details
Case Specific Monitors		
Active Site Investigations (11/25/2008 04:14 PM EST)	0(0)	
Adult Lead Information Request Letters Missing Response (11/25/2008 04:14 PM EST)	114 (0)	Details
Chäthood Lead Elevated Events Not Assigned to User or Group (11/25/2008 04:05 PM EST)	0(0)	
Childhood Lead Events with System Generated Concerna (11/25/2008 04:05 PM EST)	1633 (1)	Detala
Childhood Lead Events with User Generated Concerns (11/25/2008 04:05 PM EST)	2 (0)	Detals
Childhood Lead Poisoned Events Not Assigned to User or Group (11/25/2008 04:05 PM EST)	0 (0)	
Childhood Lead cases where case is associated to a property with more than one active case (11/25/2008 04:05 PM EST)	14 (0)	Details
Confirmed Lead Poisonings (Open Investigations) (11/25/2008 04:14 PM EST)	0(0)	
Elevated Lead Cases for children older than 6 years (11/25/2000 04:14 PM EST)	1283 (0)	Details
Open Cases - Assigned to Current User (11/25/2008 04:14 PM EST)	1 (1)	Details
Open Cases - Unassigned (11/25/2008 04:14 PM EST)	1987 (0)	Details
Open Cases Pending 10 Days or More (11/25/2008 04:14 PM EST)	457 (1)	Details
Open Lead Events (11/25/2008 04:14 PM EST)	1647 (1)	Detain
Shared Cases - Cases shared by me (11/25/2008 04.14 PM EST)	1(1)	Details
Deduplication/Import Monitors		
Person Deduptcation (11/25/2008 04:14 PM EST)	3 (0)	Detain
Site Deduplication (11/25/2008 03:55 PM EST)	1587 (0)	Details
Case Deduplication (11/25/2008 D4:14 PM EST)	1 (0)	Details
Task Specific Monitors (Add Task)		
Completed Tasks Created by Me (11/25/2008 04:14 PM EST)	0(0)	
My Groups' Open Taska (11/25/2008 04:14 PM EST)	4 (0)	Details
My Open Tasks (11/25/2008 04:14 PM EST)	2 (2)	Details
Ny Overdue Taska (11/25/2008 04:14 PM EST)	1 (1)	Detain
Open Tasks Created by Me (11/25/2008 04:14 PM EST)	2 (2)	Detain
Overdue Tasks Created by Me (11/25/2008 04:14 PM EST)	1 (1)	Detain

3. Click the Details link in the row that displays either "My Groups' Open Tasks" or "My Open Tasks".

electal Clearal	13									
ly Open Tasks	(Type: Task) Realtime 12/08/2008 11:17 AM EST									
Туре	Event D	Task	Due Date	Description	Status	Event Type	Created By	Last Update	Assigned To	Assigned To Group
Assignment	100000683_ Bryan, Gregory Wayne (Charlotte, NC)	Edit tens			Pending	Blood Lead - Child	Robert Olivieri (07/18/2008)	07/18/2008	Robert Olivieri	
Assignment	Not specific to a case	Editoria	04/17/2005	Create Badges	Pending		Robert Olivieri (07/15/2005)	07/18/2008	Robert Olivieri	
Displaying result	(8) 12								«« First « Pre	v 1/1 Next > Last >
Assign selected	and a second	selected items	400000		~	leassion				

If it is necessary to reassign a task, check the box to the left of the specific task and then select the appropriate username or group in the "Assign selected items to user:" or "Assign selected items to group:" dropdown box and click Reassign.

4. Upon acknowledging the task, click the Edit Task link to change the status of the task.

#### Edit Task

Task Information	
Event:	100000663 - Gregory Wayne Bryan - Blood Lead - Child
Туре:	Assignment 🗸
Status:	Pending V
Created By: Create Date: Last Update:	Pending Divier] In Progress Completed 07/18/2008
Priority:	Medium 💌
Due Date:	
Complete Date:	
Description:	
Notes:	
	<u>v</u>
Assign to user:	rolivieri [Robert Olivieri]
Assign to group:	✓
Save C	ancel Help

- 5. Click the Status dropdown to select the new status of the task.
  - □ If the work is not yet completed, choose "In Progress";
  - □ If the task is complete, select "Completed" and enter the Complete Date.
- 6. Click Save. This action saves the new status so that the user who assigned the task will see that it's been started or completed.

#### From the Dashboard Tasks Button:

- 1. To perform a task from the Dashboard, first click the Tasks button on NC Lead toolbar.
- 2. Review the tasks listed in the table.

Assigned To Group	Assigned To	Last Update	Created By	Event Type	Status	Description	Due Date	Task	Event D	Type	Priority
									ted event	for the select	asks f
										alable	ione ava
									ly assigned to me)	s (specifical)	Ay task
ni in	rolivieri (Robert Olivieri)	07/18/2008	rolivieri [Robert Olivier], 07/18/2008		Pending	Create Badges	04/17/2008	Edit task	Not specific to a case	Assignment	fedium
n	rolivieri (Robert Olivieri)	07/16/2006	rolivieri (Robert Olivieri), 07/18/2008		Pending	Create Badges	04/17/2008	Editant			

**Type** Describes the type of task selected by the creator of the

Tasks

task.

Priority	The priority that was assigned to the event.
Due Date	The date by which this task should be completed. This is decided upon by the user creating the event.
Description	The description of the given task.
Status	The status of the task. The status will be Pending when a task is first assigned.
Created by	The user who created the task.
Event	The event type being reporting upon in the given event. This will be blank if the task is not tied to an event.
Assigned to	The person to whom the task is assigned. (May be blank if not assigned to an individual.)
Assigned to group	The group to whom the task is assigned. (May be blank if not assigned to a group.)
Action	Edit or Delete the Task

3. After performing the task required, reopen the task list and click Edit Task on the appropriate task to change the status of the task.

Event:	CONV_SITE_1189068 - 300 Discovery Way 312, Durham, NC 27703 * - Prope
Туре:	Investigation
Status:	Pending V
Created By:	tmoore [Talytha Moore]
Create Date:	02/23/2010
Last Update:	02/23/2010
Priority:	Very High 🗸
Due Date:	
Start Date:	
Complete Date:	
Description:	CLP in need of Investigation ASAP!
Notes:	
votes.	
Assign to user:	tmoore [Talytha Moore]
Assign to group:	×

- 4. Click the Status dropdown to select the new status of the task.
- > If the work is not yet completed choose "In Progress";

- > If the task is complete select "Completed" and fill in the Complete Date.
- 5. Click Save. This action saves the new status so that the user who assigned the task will see that it's been started or completed.

## Assign a Case

Assigning an event is typically done by a supervisor to the people on his or her team. This allows the supervisor to help manage workloads. The user must have assign case permissions to be able to assign an event. To perform this action, first open the event to be assigned, and then follow the steps below:

1. Click the Assign case 🖬 button.

External ID:	100000663
Event ID:	100000663
Name:	Gregory Wayne Bryan
Event Type:	Blood Lead - Child
Create Date:	04/18/2008
Status:	Open
Assign To User:	×
Assign To Group:	×
Description:	
Save	Cancel Help

## Assign Case - Gregory Wayne Bryan - Blood Lead - Child

- 2. Select the User or Group to whom the event should be assigned and click Save.
- 3. The assignee will see this event in his/her task list on the Tasks Page as one that belongs to him/her or in the Task Specific Monitor called My Open Tasks.

fasks								
View Event and Personal Tasks								
Priority Type Event D	Task	Due Date	Description	Status	Event Type	Created By	Last Update Assigned To	Assigned To Group
Tasks for the selected event								
Medium Assignment 100000563, Bryan, Gregory Wayne (Charlotte, NC)	Edit task			Pending	Blood Lead - Child	rolivieri (Robert Olivieri), 07/16/2008	07/18/2008 rolivieri (Robert Olivieri)	
My tasks (specifically assigned to me)								
Medium Assignment 100000663, Bryan, Gregory Wayne (Charlotte, NC)	Edition			Pending	Blood Lead - Child	rolivieri (Robert Olivieri), 07/18/2008	07/18/2008 rollvieri [Robert Olivieri]	
Medium Assignment Not specific to a case	Ections	04/17/2008	Creale Badges	Pending		rolivieri (Robert Olivieri), 07/18/2008	07/18/2008 rolivien [Robert Olivien]	

Please note that if a user tries to assign an event to someone who does not have permissions to see it, the user will be notified of the problem. Also, this does not take the place of changing the jurisdiction of the event within the administrative question

package. If the event is permanently changing ownership to another jurisdiction, please use the assignment trail within the administrative package.

Also remember that if the event is not visible by the user or group to whom the event is being assigned, it will need to be shared. (See next section.)

#### Exercise 5.2 – Create and Assign a Task

The purpose of this exercise is to demonstrate the ability to create and assign a task within NC Lead.

- 1. With your partner from the previous exercise, decide who is Partner A and Partner B.
- 2. Partner A: create a new event-specific task (remember, open the event and click the tasks button) and assign it to Partner B.
- 3. Partner B: locate the task that has been assigned to you and complete the task.
- 4. Partner B: mark the task as complete.
- 5. Partner B: create a new non event-specific task (this can be done from the Workflow screen or the Tasks screen) and assign it to Partner A.
- 6. Partner A: locate the task that has been assigned to you and complete the task.
- 7. Partner A: mark the task as complete.
- 8. How did you know that a task had been assigned to you?

9. How can you tell if a task that you've created and assigned has been completed?

## Sharing a Case

The ability to share an event is a useful feature because it allows someone to provide temporary permissions to someone else (or another group) to view an event that ordinarily wouldn't be accessible by the other person (or group). For example, a Lead event was created in Warren County but the person moves to Halifax County. Both counties need access to this specific event. At this point, Warren County should share the event with Halifax County.

### Share a Case

To share an event, the case must be open within the Dashboard. Follow the steps below to share an event:

- From NC Lead Dashboard (while viewing the event to be shared), click the Share Case button.
- 2. A screen displays with all the information about existing shares with the event. If there are no existing shares, the screen will display a blank table at the top of the window, as shown.

Currently S	hared									
Case 100000663	Name Gregory Wayne Bryan	Status Open	Event Type Blood Lead - Child	Type View Only Limited	Shared Date 07/16/2008	Shared By rolivieri (Robert Olivieri)	User rolivieri (Robert Olivieri)	User Group	Allow Delegation No	Action Unshace
Add Case 5 Event ID Name Event Type User: User Group	10000683 Gregory Wayne Bryan Blood Lead - Child Max Only Limited	~	~							
Allow Deleg										

3. Select the type of permissions being allocated to the new user.

Event ID Th	e Event ID of the event.
-------------	--------------------------

**Name** The name of the child in the specific event being shared.

**Event Type** The type of event being shared.

TypeThe type of permissions being given to the user (View only<br/>Limited, View only Full, View and Update Limited, View and<br/>Update Full).

**View Only Limited** – provides the ability to see a limited number of questions based on settings entered "behind the scenes". Editing is not possible with these permissions.

**View Only Full** – provides the ability to see the full range of questions. Editing is not possible with these permissions.

**View & Update Limited** – Users will be able to view and edit a limited number of questions based on settings entered "behind the scenes."

**View & Update Full** – Users will be able to view and edit the full range of questions.

**User** A dropdown list of users within NC Lead system.

**User Group** A dropdown list of user groups within NC Lead system.

# Allow Specifies if the user or group with whom this event is being shared will have the ability to share it with another user or group.

- 4. Using the dropdown, choose the User or User Group with whom the event will be shared. Note that when creating a share, it is only possible to select either a user or a group, but not both at once. To share with an additional party (user or group) follow the steps to create another instance of a share.
- Check the Delegation box to allow the user or group with whom the event is being shared to also be able to share the event with other users or groups (if desired).
- 6. Click Save. The Shared Cases table is now populated with the information from this share.

Currently SI	hared									
Case 100000663	Name Gregory Wayne Bryan	Status Open	Event Type Blood Lead - Child	Type View Only Limited	Shared Date 07/18/2008	Shared By rolivieri (Robert Olivieri)	User rolivien (Robert Olivien)	User Group	Allow Delegation	Action
Add Gase 3 Event ID: Name: Event Type:	10000663 Gregory Wayne Bryan Blood Lead - Child									
Type: User:	View Only Limited	-	-							
User Group:	ation:									

Share Case - Gregory Wayne Bryan - Blood Lead - Child

#### Unshare a Case

There will be occasions where it is only necessary to share an event with another group for a limited period of time. When the required amount of time has passed, it is advisable to Unshare the event.

To Unshare an event:

- 1. Open the event to be Unshared in the NC Lead Dashboard.
- 2. Click the Share Case button.
- 3. In the Action column, click the link that says Unshare next to the share that needs to be removed.



4. Click OK to confirm that the event should no longer be shared.

#### Exercise 5.3 – Share a Case (Demonstration)

The purpose of this exercise is for the instructor to demonstrate sharing an event. The reason that this exercise is a demonstration is because all the students in the class are part of the same group and have access to the same events.

The instructor will log in as a person with different event access and will share the event with the students of the class.

- 1. The instructor will log out of the system and log back in as a user with different event access.
- 2. The instructor will locate an event that only the instructor has visibility to.
- 3. The instructor will ask the students to search for this event to demonstrate that they currently do not have visibility to the event.
- 4. The instructor will share the event with the class.
- 5. Students will again search for the event and will see that they have visibility to it now.

## Chapter 6: Printing, Reporting, and Adding Attachments

Learning Objectives:

- 1. Demonstrate the ability to view and print letters.
- 2. Demonstrate the ability to open and view existing reports.
- 3. Demonstrate the ability to add an attachment to an existing event.

## PRINTING DOCUMENTS

NC Lead allows common letters, forms, and other documentation to be printed with prepopulated information about the event type and the child.

To print a document the user must first select an event to be referenced and then click the Print Case button. If the user clicks Print Case prior to selecting an event the following message will appear.

Microso	ft Internet Explorer 🔯
	Please select a case first
	ОК

Follow the steps below to print a document using NC Lead.

- 1. Open the event about which a document needs to be printed.
- 2. Click the Print Case button.
- 3. A screen will appear listing all documents available for printing for the specific event. This screen is different depending on the event type specified in the event.

Print Documents			
Document	Description	Name	Acter
ConsentRefusal.rtf	Consent/Refusal EBL	Gregory Wayne Bryan	Open
Event_Print.xsl	Generic Event Template	Gregory Wayne Bryan	Open
Form3651.rtf	Evaluation of Child With Elevated Blood Lead Level	Gregory Wayne Bryan	Open
Form3958.rtf	Risk Assessment Questionnaire	Gregory Wayne Bryan	Open
Form3958.rtf	Risk Assessment Questionnaire	Gregory Wayne Bryan	

- 4. Locate the necessary document from the list displayed.
- 5. Click the link to the right (in the Action column) that says Open.
- 6. A screen similar to the one below will display prompting the user to Open or Save the document. (These steps may vary slightly depending on the user's version of the software.)

)o you	want to open or save this file?
	Name: 1000031_SP_Provider_Letter.rtf
	Type: Microsoft Word Document, 54.8 KB
	From: localhost
	Open Save Cancel
Alway	rs ask before opening this type of file
2	While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. What's the risk?
docu	se note that if the user is using Microsoft Word 2000, the ment must first be saved locally and then opened from saved.

- Click Open to immediately open the document, or Save to save it before opening. (If the user clicks Save, a "Save As" prompt displays requiring the user to designate a location in which to save the document.)
- **8.** Open the document. The boxes in grey are editable and can be modified if they are incorrect or incomplete. The boxes which contain patient information are normally pre-populated by NC Lead.

NOTE: If there is pre-populated data that is missing or incorrect in the print document, the user MUST close the document and go back into NC Lead to make the updates. Otherwise the changes made to the document will not be retained. After making changes in NC Lead, click on the print template again from the Print Documents screen and the information will be updated.

CONSENT / REF	FUSAL FORM						
I, the undersigned, am the <mark>owner ≛</mark> the property lo investigation of the property by the Health Depart Natural Resources.							
I understand that a full lead investigation will be d taking X-ray fluorescence readings, water, dust, so							
I understand that an investigation report will be written and a copy of the report will be provided to the owner and me, if different from the undersigned.							
I understand that upon sale or lease of the property, the owner must disclose the presence of known lead -based paint and /or lead-based paint hazards.							
I also understand that the investigation report is considered a public record and is, therefore, subject to disclosure by the Health Department upon request.							
Signature	Date						
DOGIN JENT ANTON OF VEDDAL DEPUTAN							
DOCUMENTATION OF VERBAL REFUSAL	Signature & Position/Title Date						

- 9. To print a hard copy of a document, click the print option within the application. For example, in Microsoft Word, click File/Print... to print the document.
- 10. From NC Lead Print Documents screen, click the Back button to return to the Dashboard.

## **The Event Print Document**

NC Lead offers a default print document which prints every question that has been answered in the active event. This is called Event\_Print.xsl. This print document is also unique in that it opens in a browser as opposed to within MS Word. Please note that the only way to "edit" this document is to change data within the current event in NC Lead.

#### Exercise 6.1 – Print a Document

The purpose of this exercise is to demonstrate the ability to print a document within NC Lead.

- 1. Click the Print Case button.
- 2. Select a document or form *other than* Event\_Print.xsl that you would like to view.
- 3. Click Open.
- 4. When the File Download prompt displays, click Open. (Please only save documents to the computer's desktop, as this is a training computer.)
- 5. Which information has been pre-populated in the document displayed?

6. Suppose you opened a letter that needs SS # or date of birth updated or inserted. How would you fix this? Why?

- 7. Open some of the question packages in your event and enter some data.
- 8. Click the Print Case button.
- 9. Open the Event\_Print.xsl document and view the data that displays.
- 10. Click File/Save As... and save the file with a name of Event\_Print.html to your desktop.
- 11. How might you use print templates in your job?

## **NC Lead Reporting**

Reports in NC Lead can be used to view and analyze event data. The purpose of this module is to explain how to run reports. However, the images in this guide are only sample reports.

Reports can be displayed in two ways:

- > In a format that cannot be edited within the browser window.
- Exported to an external application such as Microsoft Excel. Exporting the data allows for the data to be manipulated, formatted, or even graphed.

#### **Viewing Reports**

Generally speaking, reports are not based on a specific event; therefore it is not necessary to have an event selected before running a report. To run a report, follow the instructions below:

- 1. From NC Lead Dashboard, click the Reports button .
- 2. Click the Category dropdown list and select the desired report category.
- 3. Click the Select Report dropdown list and select the desired report.

Maven Reporti	Maven Reporting								
Category:	Audit Reports 🗸 🗸								
Select Report:	Audit Reports Case Management Reports	~							
Run Report	Custom Reports GIS Reports Metadata Management Reports System Management Reports								

Next choose the parameters for the report. This may include selecting a jurisdiction or entering the date range. The parameter choices vary based on the report you choose.

Maven Reporti	ng								
Category:	Custom Reports			*					
Select Report:	NIOSH Report							~	
Start Date:		•							
End Date:		?		٢	1arch	n, 2011	0		×
		«	<		Toe	day		$\rightarrow$ $_{\pm}$	»
		wk	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Run Report	Export Results	8		1	2	3	4	5	6
		9	7	8	9	10	11	12	13
		10	14	15	16	17	18	19	20
		11	21	22	23	24	25	26	- 27
		12	- 28	29	30	31			
					Select	t date			

To view the report in a browser window, click the Run Report button. This will display the results in a browser window. However, the report is static. The user will be unable to change the formatting, sort or filter the data.

StateRep	StateRes	CountyRes	StateExp	CountyExp	ID	Status	BLL Date	Date Type	BLL	DOB	Age	Sex	Ethnicity	Race	WorkRel	SIC	NAICS	COC	Process
NC	NC	Wake County	NC	183	100000847	1	09/17/2006	1	43	09/05/1982	26	1	1	4	2		NA	NA	9
NC	NC	Wake County	NC	183	100000780	1	07/21/2008	1	26	04/28/1990	18	2	0	4	1		999	192	NA
NC	NC	Wake County	99	999	100000505	9		9		08/05/1957	50	9	1	3	9		NA	NA	NA
NC	NC	Wake County	NC	183	100000840	1	08/17/2008	1	53	07/18/1985	23	1	1	4	2		NA	NA	8
NC	NC	Wake County	99	999	100000845	1		1		10/09/1933	74	2	0	3	9		NA	NA	NA
NC	MD	Anne Arundel County	99	999	100000680	4		9			999	1	0	9	3		NA	990	Other Test Field
NC	NC	Wake County	99	999	100000763	1	11/29/2007	1	26	03/31/1956	52	2	1	4	9		NA	NA	NA
NC	NC	Wake County	NC	183	100000849	1	09/17/2008	1	43	09/05/1982	26	1	1	4	2		NA	NA	9
NC	NC	Wake County	99	999	100000734	1	07/10/2008	1	60	03/02/1977	31	1	9	9	9		NA	NA	NA
NC	NC	Wake County	NC	183	100000762	1	07/02/2008	1		03/31/1956	52	2	1	4	1		111334	733	NA
NC	NC	Wake County	TX	999	100000716	2	07/24/2007	1	25	03/30/1956	52	2	1	4	3		111422	913	5
NC	NC	Wake County	NC	183	100000717	4	07/01/2008	1	1	04/24/1980	28	2	9	9	9		NA	NA	NA
NC	NC	Wake County	99	999	100000823	5		1		03/30/1956	52	2	9	9	9		NA	NA	NA
NC	NC	Wake County	99	999	100000839	1	07/17/2008	1	36	01/02/1974	34	1	1	4	2		NA	NA	contaminated spice
NC	NC	Forsyth County	NC	067	100000686	1	05/30/2008	1	50	05/02/2008	0	1	0	9	1		111422	962	NA
NC	NC	Wake County	99	999	100000733	1	07/16/2008	1	50	04/03/1987	21	1	9	9	9		NA	NA	NA
NC	NC	Wake County	NC	009	100000827	4	07/23/2008	1	8	08/02/1951	57	1	0	4	1		441310	267	NA
NC	NC	Wake County	99	999	100000570	4		2	20	12/26/1981	26	1	9	9	9		NA	NA	NA
NC	NC	Alamance County	99	999	100000494	9		9		12/26/1981	26	1	9	9	9		NA	NA	NA
NC	NC	999	NC	023	100000792	1	01/01/2007	1	26	01/01/2005	3	2	1	4	9		NA	NA	NA
NC	NC	Wake County	NC	067	100000683	1	05/29/2008	1	25	04/08/1950	58	1	0	4	1		111422	733	NA
NC	NC	Wake County	99	999	100000826	5		1		03/30/1956	52	2	9	9	9		NA	NA	NA
NC	NC	Wake County	NC	183	100000854	1	09/19/2008	1	28	06/29/1979	29	2	0	4	2		NA	NA	5
NC	NC	Wake County	99	999	100000853	1	09/14/2007	1	28	06/29/1979	29	2	0	4	2		NA	NA	5
NC	NC	Wake County	NC	183	100000726	1	07/02/2008	1	50	06/26/2002	6	2	9	4	1		111422	772	NA
NC	NC	Wake County	99	999	100000848	1	09/17/2007	1	43	09/05/1982	26	1	1	4	2		NA	NA	9
NC	NC	999	99	999	100000721	4		9			999	9	9	9	9		NA	NA	NA
NC	NC	Wake County	99	999	100000793	1	02/01/2007	1	26	03/30/1956	52	2	9	9	9		NA	NA	NA
NC	NC	Mecklenburg County	99	999	100000662	4		1		03/27/1969	39	1	9	9	9		NA	NA	NA
NC	NC	Wake County	NC	183	100000850	4	09/16/2007	1	22	08/12/1974	34	2	0	4	2		NA	NA	4
NC	NC	Wake County	99	999	100000822	5		1		03/30/1956	52	2	9	9	9		NA	NA	NA
VC	NC	Durham County	99	999	100000440	2		9		10/01/1983	24	1	1	9	9		NA	NA	NA
VC	NC	999	99	999	100000492	9		9		10/01/1983	24	1	0	1	9	_	NA	NA	NA
NC	NC	999	99	999	100000791	2	01/01/2008	1	26	01/01/2005	3	2	1	4	9	_	NA	NA	NA

### **Exporting Report Results**

1. Follow the steps to select the report and enter the parameter values. Then, rather than clicking the Run Report button, click the Export Results button instead. The user will be prompted with a security warning from Microsoft Excel.

File Dow	vnload 🛛 🔀
Do you	want to open or save this file?
	Name: NIOSH_Report.xls Type: Microsoft Excel Worksheet, 15.1KB From: ncedsstest.ncpublichealth.info
	Open Save Cancel
2	While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. <u>What's the risk?</u>

Click Open to immediately open the report or Save to save it before opening. (If the user clicks Save, a "Save As" prompt displays requiring the user to designate a location in which to save the document.)

Use Excel's functionality to format, sort or filter the data. The image below shows the same report after some formatting in Excel.

-	Ele Edit		ert Format Iools			10 x . A	21.140	al 1002										Type a que	tion for help •
1	the second second second second	1.000 1.000	BZUI				ALC: NOT THE OWNER.												
-	T51	+	6 NA		CEE - 9 79	* 300 a.6 1	- 14- I L	2 · · · 4											
	A	8	C C	D	E		6	н		J	к	L	M	N	0	P (	R	S	T
1	M	0	0	0	E	- F	0	- 11 -		9	R.	L	01	LA.	0	- E 1	N K	0	
			MIC	HPC	Pon	ort Re	ano	rt no	rind	• •	11/01	12	იი	8-1-	1/1	1/20	08		
22.																			(1000) (100)
		StateRes			xp CountyE				Date Type I				Sex	Ethnicity	Race V	VorkRel S			Process
	NC	NC	Wake County	NC		183 100000847			1	43	9/5/1982	26	1	1	4	2	NA	NA:	
	NC	NC	Wake County	NC		183 100000780		7/21/2008	1	26	4/28/1990	18	2	0	4	1	99		
	NC	NÇ.	Wake County			999 100000505			9	1	8/5/1957	50	9	1	3	9	NA	NA N	Ą
	NĈ	NC	Wake County	NC		183 100000840		8/17/2008	1	53		23	1	1	- 4	2	NA.	NA.	
	NC	NC	Wake County			999 100000845			1		10/9/1933	- 74	2	0	3	9	NA.	NA N	
	NC	MD	Anne Azundel Cour	sty :		999 100000680			9			999	1	0	9	3	NA.		ther Test Field
	NC	NC	Wake County	10000		999 100000763		11/29/2007	1	26		52	2	1	4	9	NA.	NA N	A,
	NÇ	NC	Wake County	NC		183 100000849		9/17/2008	1	43	9/5/1982	26	1	1	4	2	NA	NA	
	NC	NC	Wake County			999 100000734			1	60	3/2/1977	31	1	9	9	9	NA.	NA N	
	NC	NC	Wake County	NC		183 100000762		7/2/2008	1		3/31/1956	52	2	1	4	1	11133		A
	NC	NC	Wake County	TX		999 100000718			1	25	3/30/1956	-52	2	1	- 4	3	11142		
	NC	NC	Wake County	NC.		183 100000717			1	1	4/24/1980	28	- 2	9	9	9	NA.	NA N	
	NC	NC	Wake County			999 100000823	1 5	<u>6</u>	1		3/30/1956	- 52	- 2	9	9	9	NA.	NA N	A
	NC	NÇ.	Wake County		99 1	999 100000839		7/17/2008	1	36	1/2/1974	34	1	1	4	2	NA.		ontaminated spice
	NC	NC .	Forsyth County	NC		67 100000688	i 1	5/30/2008	1	50	5/2/2008	0	1	0	.9	1	11142	2 962 N	A
9	NC	NC .	Wake County		99 9	999 100000733	1 1	7/16/2008	1	-50	4/3/1987	- 21	1	9	9	9	NA.	NA N	A
0	NC	NC	Wake County	NC		9 100000827	4	7/23/2008	1	8	8/2/1951	57	1	0	4	1	44131	0 267 N	A.
1	NC	NC.	Wake County		99 1	999 100000570	4		2	20	12/26/1981	- 26	1	9	.9	9	NIA.	NA N	A,
	NC	NC	Alamance County		99 9	999 100000494	9		9		12/26/1981	26	1	9	9	9	NA	NA N	Ą
3	NÇ	NÇ	6	999 NC		23 100000792	1	1/1/2007	1	26	1/1/2005	3	2	1	4	9	NA.	NA N	A,
	NC	NC	Wake County	NC		67 100000683	1	5/29/2008	1	25	4/8/1950	58	1	0	4	1	11142	2 733 N	A
5	NC	NC	Wake County		99 5	999 100000826	5		1		3/30/1966	- 52	2	9	9	9	NA	NA N	A
6	NC.	NC	Wake County	NC		183 100000854	1 1	9/19/2008	1	28	6/29/1979	29	2	0	- 4	2	NA.	NA.	
7	NC	NC	Wake County		99 1	999 100000853	1 1	9/14/2007	1	28	6/29/1979	29	2	0	- 4	2	NA.	NA	
3	NC	NC:	Wake County	NC	S	183 100000726	i 1	7/2/2008	1	50	6/26/2002	6	2	9	4	1	11142	2 772 N	A.
9	NC	NC	Wake County		99 1	999 100000848	1 1	9/17/2007	1	43	9/5/1982	26	1	1	4	2	NIA.	NA	
3	NC	NC		999	99 5	999 100000721	- 4		9			999	9	9	9	9	NA.	NA N	A
1	NC	NC	Wake County		99 1	999 100000793	1 1	2/1/2007	1	26	3/30/1956	52	2	- 9	9	9	NA	NA N	A
2	NC	NC	Mecklenburg Count	ty	99 1	999 10000066.	4		1		3/27/1969	39	1	9	9	9	NA.	NA N	A,
3	NC	NC	Wake County	NC		183 100000850	4	9/16/2007	1	22	B/12/1974	34	2	0	4	2	NA.	NA	
4	NC	NC .	Wake County		99 9	999 100000822	5		1		3/30/1956	52	2	9	9	9	NA	NA N	A .
5	NC	NC .	Durham County		99 1	999 100000440	1 2		9		10/1/1983	24	1	1	9	9	NIA.	NA N	A,
	NC	NC		999	99 9	999 100000492	9		9		10/1/1983	24	1	0	1	9	NA.	NA N	Ą
ŧ.	NC.	NC	-	999	99 1	99 100000791	2	1/1/2008	1	26	1/1/2005	3	2	1	4	9	NLA.	NA N	A.
3	NC	NC	5	999	99 9	999 100000493	9		9		12/26/1981	26	1	1	2	9	NIA.	NA N	A
	NC	NC	Wake County		99 1	999 100000782	4		1		5/5/1995	13	1	9	9	9	NA.	NA N	A
	NC	NC	Wake County	NC		183 100000722	4	7/2/2008	1	26	6/25/2002	6	9	9	9	1	11142	2 772 N	A
Ē.	NČ	NC	Alamance County	NC		183 100000720		7/2/2008	1	40	8/5/1957	50	2	Ó	4	1	11133	4 22 N	A
	NC	NC	Forsyth County	NC		799 10000068 <sup>1</sup>	1	5/29/2008	1		8/16/1956	51	1	0	9	1	1114		
	NC	NC	Wake County			999 100000504	9		9		3/4/1983	24	2	1	2	.9	NIA.	NA N	
	NC	NC	Wake County	NC		163 100000834		7/17/2008	1	50	10/23/1961	46	2	0	3	1	23825		
	NC	NC	Wake County	NC		183 100000838		7/16/2008	1	35		21	1	1	4	2	NA.	NA	
	NC	NC	Wake County			999 100000794			1		3/30/1956	62	2	9	9	9	NIA.	NA N	Ą
	10			000	00 0	100.400000.101						nnn	- 0	0	- 12	0			

#### Exercise 6.2 – View a Report

The purpose of this exercise is to demonstrate the ability to view a report within NEDSS Lead.

- 1. Click the Reports button.
- 2. Select a report. Enter the desired data into the fields displayed.
- 3. View the report in the browser.
- 4. Repeat the process and view the same report in Excel.
- 5. What is the difference between viewing a report in a browser and viewing it in Excel?

6. Which view do you prefer? Why?

## **Attaching Files**

Often, there may be a document or file, such as a lab report, letter, or photograph that should be attached to an event. As long as the file is accessible from the user's computer, the file can be attached to the event. Attachment information is displayed in the Event Summary section at the top of NC Lead dashboard.

To attach a file to an event, follow these simple steps:

- 1. Open the event to which an attachment will be added.
- 2. From within the Event Summary section, on the line specifying Attachments, click the link that says Add. The following screen will appear.

#### Add Attachment - Gregory Wayne Bryan - Blood Lead - Child

Attachment Information	
File:	Browse
Description:	
Name:	Gregory Wayne Bryan 💌
Status:	Requires Review
Туре:	General
Notes:	
	~

Save Cancel Help
------------------

File	The name and path of the file to be attached.
Description	A description of the file being attached. (Required)
Name	The name of the Child or Property in the current event.
Status	The status of the attachment and whether it requires review, or is approved or rejected.
Туре	The type of file being attached– this can include photographs, correspondence, etc
Notes	Notes about the attachment.

- 3. Click the Browse... button and locate the file to be added from your computer.
- 4. Click Open to add the file to the Add Attachment Screen.
- 5. Enter an appropriate description of the file (required).

- 6. Set the status and the type of file.
- 7. Add a note if necessary.
- 8. Click Save. This action opens the Manage Attachments screen.

Attachments			5-056 A.		100 CO. 100 Aug	A 1 (40) 12
Create Date	Person	Tie	Description	Status	Updated By	Action
Create Date 06/04/2007	Harrison J Ford	xray.jpg	Chest X-Ray	Approved	michelle	View Edit Delete

- 9. From the Manage Attachments screen, click Add Attachment to add another file to the event. (Repeat steps 3-7.)
- 10. Click View in the Actions column to view the attachment (if desired). The actions column also gives users the ability to edit or delete the attachment.

Click DASHBOARD to return to NC Lead Dashboard. Observe that in the Summary Information section, Attachments now lists the number of attachments. Click Add to add another attachment or View to view the existing attachment(s).

The Delete button will allow the user to delete the attachment (not affecting any data in the event itself) and if desired, reattach it. This is useful if a mistake was made in the process of adding the attachment and the wrong attachment was added.

Dates:	Create Date: 04/18/2008	
Investigation Status:	Open	
Linked Events:	0 linked event(s) (View)	
Attachments:	1 attachment(s) (Add) (View)	
Edit Event Properties		

### Exercise 6.3 – Add an Attachment

The purpose of this exercise is to demonstrate the ability to add an attachment within NC Lead.

- 1. Open your event.
- 2. How many files are currently attached to it?
- 3. Attach the Event Print file (you saved this to your desktop) to the event.
- 4. Enter a description for the attachment that says "print template" and click Save.
- 5. View the file after it has been attached.
- 6. What is a real-life example of when you might attach a print template to an event? Why might you do this?

Learning Objectives:

1. Demonstrate the ability to view linked events

## Linking Events

The ability to link one event to another is important for public health surveillance because it allows investigators and clinicians to keep track of related events. Because all events are separate within the system, links are created to indicate how one is associated with another. There is no limit to the number of events that can be linked to one another.

## LINKING WILL ONLY BE PERFORMED BY ENVIRONMENTAL HEALTH SPECIALISTS.

This will be covered in more detail during the Day 2 training for NC Lead and in the Environmental Health training manual.

## Link Types

The ability to link events is a very powerful function within NC Lead. There are several link types built into the product which provide specificity when creating linked cases. This makes it quite simple to see the way in which two events are related. The link types within NC Lead are the same for all event types, even if the link type may not apply, for example a vertical link type. The link types are as follows:

Property to Child Links	The person is in direct contact or associated with a lead event. Creating a link between investigation properties and children demonstrates the relationship between a child(ren) and a property(s).

## **Viewing Linked Property Events to Child Events**

1. Open the Child event.

Basic Information	
Event ID:	10000010
Event Type:	Blood Lead - Child
Primary Person:	Tara Byron () Phone:
Address:	999 African Grey Parrot Street, Featherville, NC 11111 (Edit)
Dates:	Create Date: 02/22/2010
Investigation Status:	Open
Linked Events:	2 linked event(s) (View)
Attachments:	0 attachment(s) (Add)
Additional Information:	Linked cases:
	10000063 - 999 Africangreyparrot Street, Featherville, NC 11111 * - 999 Africangreyparro Street, Featherville, NC 11111 [ <u>Open]</u> 10000081 - 999 Sunconure Street, Raleigh, NC 27606 * - 999 Sunconure Street, Raleigh, 27606 [Open]

- 2. You can view the linked properties (if any) in the block next to the Additional Information field in the Event Summary section.
- Clinicians can view Investigation information by clicking on the OPEN link next to the property. Clinicians can VIEW ONLY but cannot update nor edit Property Event information.

## Conclusion

#### Conclusion

The user should have an understanding of the following:

- Benefits of the system
- Parts of NC Lead Dashboard
- Creating new events
- Searching for existing events
- Modifying events
- Printing documents and letters
- Viewing reports in either a browser or within Excel
- Adding attachments
- Utilizing the Workflow Queue
- Editing, assigning, and creating tasks
- Linking events

If questions arise regarding this course, please contact <u>NCEDSS@lists.ncmail.net</u>. For general questions regarding NC Lead please call the Help Desk at 1-877-625-9259.

## Index

Adding Additional Addresses	52	Creating an Event	29
Assign a Case	73	Dashboard	
Attaching Files	87	Event Information Section	15
Basic Information Sub-Tab	50	Event Summary Section	12
Buttons		Sections	9
Assign Case	10	Shortcut Buttons	10
Create Event	10	Toolbar	10
Print Case	10	Deduplicating Events	APP F
Recent Cases	11	Deduplicating Persons	APP F
<u>Reports</u>	10	<b>Deduplication</b>	APP F
Search Event	10	Demographic History Sub-Tab	53
Share Case	11	Demographic Question Package	55
Tasks	10	Edit Event Properties	15
User Information	11	Event History	26
<u>Workflow</u>	10	Event Data Tab	17
Case Specific Monitors	60	Event Deduplication	APP F
Change password	5	Event Notes	14
Changing the Event Type	45	Event Print Document	81
Choosing an Event Type	30	Event-Specific Task	65
Closing an Event	APP G	How to Avoid Creating Duplicates	APP F
Complete a Task	69	Lab Results	35
Concerns Tab	22	Lab Results Tab	19
Creating a Childhood Lead Event	31	Linking Events	
Creating a Property Event	33	Creating a New Linked Event	91

Link Types	91	Tabs	
Linking to Existing Events	APP E	<u>Concerns</u>	21
Linking to Multiple Events	APP E	Lab Results	19
Logging In	4	Persons	24
Logging Out	5	Tasks	25
Main vs. Administration Applications	3	Event History	26
Manually Invoking Deduplication	APP F	Event Data	17
Modify Event Information	15	<u>Tasks</u>	63
Modifying Person Information	48	Tasks Tab	25
NC LEAD Reporting	83	Temporary Locks	45
Non-Specific Task	67	Unshare a Case	77
Person Deduplication	APP F	Updating Address Information	51
Person Notes Sub-Tab	54	Users, Roles and Groups	2
Person Summary Screen	13	Workflow Queue	59
Persons – Sub-Tabs	25		
Persons Tab	24		
Printing documents	81		
Question Packages	34		
Recent Cases	42		
Removing Addresses	53		
Reopen a Closed Event	APP G		
Reports			
Exporting Results	85		
Viewing Reports	83		
Searching for an Event	39		
Sharing a Case	75		
System Passwords	5		

## Appendix A: Tips in Internet Explorer

To create a shortcut to a specific web page, first open Internet Explorer (IE).

- 1. Type the URL of the site for which you'd like the shortcut. In the case of training, the URL is http://ncedsstraining.ncpublichealth.info/login.do
- 2. Click Enter to be sure that the page opens where you'd like.



3. Click the "Restore Down" button on the IE window so that you can see both the IE window and part of the desktop as shown below.

North Carolina Electronic Disease Surv	eillance System - Microsoft Internet Explorer			2	
File Edit Vew Favorites Tools Help			20 A 14		
	Search 👷 Favorites 🕢 🖉 👶 📓 📋 🛄 😫 🥸				
Address D http://ncedsetraning.ncpublichealth.in	fologn.de Carolina Electronic Disease Surveillance System	× 🗗 🗠	Loke * •		
User Privacy - NOTICE	Carolina Electronic Disease Surveinance System				
This system is th authorized use of law. Unauthorized	<pre>e property of the State of North Carolina and is for ily. Unauthorized access is a violation of federal and s d access or use of this computer system may subject vio 1, and/or administrative action.</pre>				
Acceptable Use Policy					
<ol> <li>I understand t purposes.</li> <li>All information this information obtained.</li> </ol>	he NC EDSS information system is to be used only for of m on the NC EDSS is confidential. I will not use or dis except for its authorized purposes. I agree not to sha need on the NC EDSS with anyone (including family member ined NC EDS users.	close *			
	by appropriate safeguards to protect the confidentialit information obtained on the NC EDSS.	y and w			
	Logni Useranie. Passicuti. Application: User Usera.			4	9
Done		O Tru	sted sites	Microsoft'	
				Windc Profession	
				(k.) Norton	
C Transpos	End User Transing Ma     Crease Report Prints     Provide Chronic Dec	COLUMN TWO IS NOT THE	ent Shap Pro	100%	0 1 1 1 1 1 1 Monday

4. Click and drag the IE icon in the address bar to the desktop. This creates your shortcut on the desktop.

To turn off pop-up blockers in Internet Explorer select **Tools | Pop-Up Blocker | Turn Off Pop-Up Blocker** from the menu.



## Appendix B: How to unlock a locked form in MS Word:

To unlock a locked form in Microsoft Word '03, please follow the steps below:

- Click the View menu
- Select Toolbars → Forms
- On the forms toolbar click the padlock 🚨 button

The form is now unlocked. Edit as normal. If desired, click the padlock to lock it again when editing is complete.

To unlock a locked form in Microsoft Word '07, please follow the steps below:



- in the top left Click the Office button
- Click the Word Options button and on the Popular screen, check the box that says Show Developer Tab in the Ribbon and click OK.
| Word Options       |  | ? 💌                        |
|--------------------|--|----------------------------|
| Popular<br>Display | Change the most popular options in Word.   |                            |
| Proofing           | Top options for working with Word  |                            |
| Save               | Show <u>M</u> ini Toolbar on selection 🛈   |                            |
| Advanced           | <ul> <li>Enable Live Preview ()</li> <li>Show Developer tab in the Ribbon ()</li> </ul>            |                            |
| Customize          | Open e-mail attachments in <u>F</u> ull Screen Reading view  |                            |
| Add-Ins            | Color scheme: Blue   |                            |
| Trust Center       | ScreenTip style: Show feature descriptions in ScreenTips   | •                          |
| Resources          | Personalize your copy of Microsoft Office  |                            |
|                    | User name: Michelle<br>Initials: MB<br>Choose the languages you want to use with Microsoft Office: | L <u>a</u> nguage Settings |
|                    |  | OK Cancel                  |
|                    |  |                            |



- On the Developer tab, click Protect Document dropdown
- Choose Restrict Formatting and Editing
- In the Restrict Formatting and Editing side bar, click Stop Protection
   Stop Protection

The form is now unlocked. Edit as normal. If desired, click Yes, Start Enforcing Protection to re-lock the form.

# Appendix C: Answers to Chapter **Review Questions**

#### **Chapter 1 - Review Questions**

5. What does EDSS stand for in NC Lead

Electronic Disease Surveillance System

- 6. What are three benefits of implementing NC Lead?
  - Answers will vary, some examples are:
  - Ability to import labs electronically
  - Increased data entry capability
  - Secure electronic data exchange among groups working in childhood lead.
  - Improved data reporting and tracking •
- 7. What is the purpose of permissions within NC Lead?

Permissions in NC Lead provide the ability within the system to perform certain actions such as "run a report" or "delete a case"

8. What is the difference between a role and a group in NC Lead?

Roles define the user's permissions - the ability to use specific functions/features in NC Lead. Example: The Local Health Clinician role has permissions to create or edit an event, and to run reports.

Groups determine what cases are visible to the user. Users are members of groups based on jurisdiction and specialization.

#### Chapter 2 – Review Questions

4. Name and describe the purpose of each of the following buttons from NC Lead Dashboard toolbar:

Create Event – used to create a new lead report

Search Event – used to search for a specific lead event based on various search criteria



Recent Cases – lists the last 20 events opened by the user

Tasks – use this to assign and update statuses of specific tasks

5. What are three pieces of information ascertained from the Event Summary portion of NC Lead Dashboard?

Answers will vary – Event ID, Event Type, Primary Person, Address, Date the event was created, Investigation status, Linked events, attachments

6. What are the tabs shown in the Event Information section and what is the primary purpose of each?

Event Data: clicking the Event Data tab allows the user to access the question packages specific to the event.

Lab Results: clicking the Lab Results tab gives users the ability to view, add, and edit lab results for a particular event

Persons: clicking the Persons tab allows the user to enter or change demographic information for the person involved in this particular event.

Event History: the event history keeps track of the times the event has been updated, the question packages that were modified, and the username of the person who made the update.

#### Exercise 4.1 – Modify Person Information

The purpose of this exercise is to demonstrate the ability to modify person information within NC ELSS.

6. Where would the user make changes to a street address?

In the Persons Tab – not the demographic question package.

7. Where would the user change the patient's primary language?

In the Demographic Question Package (not Person's tab)

8. Which fields from the Demographic question package carry over if the patient has an illness in the future?

Hispanic Ethnicity, Race, Country of Birth, Primary language

#### Exercise 5.1 – Interacting with Workflow Queues

The purpose of this exercise is to demonstrate the ability to interact with Workflow Queues in NC LEAD.

4. What is the purpose of Workflow Queues?

They allow users to keep up with events and work that needs to be done.

- 5. Click the Workflows button on the toolbar. Find a workflow queue named "Childhood Lead Events with User Generated Concerns." Find your event within that queue.
- 6. Open your event by clicking on the Event ID link. Next, click the Concerns tab in the Event Information section, and find the concern you created in exercise 3.3. Update the concern by changing the value of the Status field to Resolved and save your changes. Click the Workflows button once again. Has your event been removed from the queue?

Yes

#### Exercise 5.2 – Create and Assign a Task

The purpose of this exercise is to demonstrate the ability to create and assign a task within NC LEAD.

- 10. With your partner from the previous exercise, decide who is Partner A and Partner B.
- 11. Partner A: create a new event-specific task (remember, open the event and click the tasks button) and assign it to Partner B.
- 12. Partner B: locate the task that has been assigned to you and complete the task.
- 13. Partner B: mark the task as complete.
- 14. Partner B: create a new non event-specific task (this can be done from the Workflow screen or the Tasks screen) and assign it to Partner A.
- 15. Partner A: locate the task that has been assigned to you and complete the task.
- 16. Partner A: mark the task as complete.
- 17. How did you know that a task had been assigned to you?

View My Open Tasks in the Workflow Queue

18. How can you tell if a task that you've created and assigned has been completed?

View Completed Tasks Created by Me (less than 30 days old) in the Workflow Queue

#### Exercise 6.1 – Print a Document

The purpose of this exercise is to demonstrate the ability to print a document within NC ELSS.

- 12. Click the Print Case button.
- 13. Select a document or form *other than* Event\_Print.xsl that you would like to view.
- 14. Click Open.
- 15. When the File Download prompt displays, click Open. (Please only save documents to the computer's desktop, as this is a training computer.)
- 16. Which information has been pre-populated in the document displayed?

Typically the Child/ Property Demographic info as well as Guardian/ Parent Demographic Info

17. Suppose you opened a letter that needs SS # or date of birth updated or inserted. How would you fix this? Why?

Go back into the NC LEAD Event, Then go into the correct question package to edit the information.

- 18. Open some of the question packages in your event and enter some data.
- 19. Click the Print Case button.
- 20. Open the Event\_Print.xsl document and view the data that displays.
- 21. Click File/Save As... and save the file with a name of Event\_Print.html to your desktop.
- 22. How might you use print templates in your job?

Answers will vary.

#### Exercise 6.2 – View a Report

The purpose of this exercise is to demonstrate the ability to view a report within NC ELSS.

- 7. Click the Reports button.
- 8. Select a report. Enter the desired data into the fields displayed.
- 9. View the report in the browser.
- 10. Repeat the process and view the same report in Excel.
- 11. What is the difference between viewing a report in a browser and viewing it in Excel?

Viewing in a browser: cannot be edited within the browser window.

Viewing in Excel: Exporting the data allows for the data to be manipulated, formatted, or even graphed.

12. Which view do you prefer? Why?

Depends on what you need to do with the data. If you just need to view it and print it as it, then use the browser. If you need to manipulate data, then export it to excel.

#### Exercise 6.3 – Add an Attachment

The purpose of this exercise is to demonstrate the ability to add an attachment within NC ELSS.

- 7. Open your event.
- 8. How many files are currently attached to it?

Answers will vary.

- 9. Attach the Event Print file (you saved this to your desktop) to the event.
- 10. Enter a description for the attachment that says "print template" and click Save.
- 11. View the file after it has been attached.
- 12. What is a real-life example of when you might attach a print template to an event? Why might you do this?

Attaching a 3651 form, scanned documents with signatures such as Consent Refusal forms, photographs of the property, schematics from investigations, etc.

# Appendix D: Definitions

Access Time Additional Information Address Allow Delegation Attachments	The time the event was last accessed by the user. Displays additional information about the event, such as a listing of linked events. The address of the person in the event. Has to do with Sharing a Case. Specifies if the user or group with whom this event is being shared will have the ability to share it with another user or group. Displays the number of files that are attached to this event. This is also the tool used to access the attachments. Any file, such as a report, letter, or photographs can be attached to an event.
Bulk Actions	Bulk actions are actions which take place on more than one event within a workflow queue. Examples: print letters for multiple people at one time, close several events at once, etc.
Case Specific Monitors	Workflows that automatically run monitors describing the condition of events. These vary depending upon the user's permissions within the system. For NC LEAD these workflows are categorized according to Clinician and Environmental Health Specialist. These workflows are triggered automatically by something in the system (such as missing data) and don't have a specified due date.
Category	Allows the user to categorize the note according to a preset list of categories.
Change Status To	Allows the user to change the current investigation status of the event.
Change Type To	Allows the user to change event type.
Concern	Unique name of the concern in the database.
Concerns Tab	Clicking the Concerns tab allows the user to see possible issues with data entry. (For example, if someone types a blood lead test date that is prior to the patient's date of birth a notification will display in the concerns tab indicating the error.) Additionally, concerns can be entered manually.
Dates	The date the event was created.
Deduplication Status	Displays the deduplication status of the event. Changing this dropdown can force the event to be added to the deduplication pending queue. (See Deduplication chapter for more information.)
Entry Method	Defines how the lab entry was entered in NC ELSS.
Event	The type of action that occurred.
Event History	The event history keeps track of the times the event has been updated, the question packages that were modified, and the username of the person who made the update.
Event Data Event ID	Clicking the Event Data tab presents the user with the question packages specific to the event. Further information on question packages is covered in Chapter 3. Displays the Event ID of the current event.

Group	Groups determine what cases are visible to the user. Users are members of groups based on jurisdiction and specialization. For example: members of the Wake County group would only be able to access Wake County events. Users can belong to more than one group.
Health Dept	The health department that performed the test.
Investigation Status	The investigation status displays the current status of the event; typically the status will be either open or closed.
Lab Facility	The facility where the test was performed.
Lab Results	Clicking Lab Results presents users with the ability to view, add, and edit lab results for a particular event. Electronic lab results are also displayed here.
Last Update	The date upon which the concern was last updated and if no updates have been made to the concern, this date refers to the date the concern was entered.
Lead	The lead level associated with the person.
Linked Events	Displays the number of other events that are linked to this event. This is also a tool where one could initiate the linking of one event to another.
Links	Links are created between Children and Properties to indicate how one is associated with another. Created only by Environmental Health Specialists.
Message	A more detailed description of the action.
Misc Info	Miscellaneous information and/or notes regarding the lab results.
Note	Allows the user to enter an event-related note. (This produces the same result as adding a note in the edit notes screen shown above.)
Note Type	Allows the user to set the note type to Public or Sensitive.
Ordering Facility	The laboratory facility that placed the order for the test(s) to be done.
Ordering Physician	The physician that ordered the test. This displays the detailed address and phone information for that physician.
Ordering Provider	The doctor or clinic that ordered the test. This displays the detailed address and phone information for that doctor or clinic.
Permission	Permissions in NC Lead provide the ability within the system to perform certain actions, such as "run a report" or "delete a case".
Person	The person about whom the event is based.
Persons Tab	Clicking the Persons tab allows the user to enter or change demographic information for the person involved in this particular event. This person information will display if a future event is created for this person.
Primary Person	The person about whom data is entered when an event is input into NC Lead is reflected in this field.
Reports	Used to view and analyze event data.
Role	Roles define the user's permissions - the ability to use specific functions/features in NC Lead. Example: The Local Health Clinician role has permissions to create or edit an event, and to run reports. A user belonging to the Local Data Entry Role has a different set of permissions than the Clinician.

Share a Case	It allows someone to provide temporary permissions to someone else (or another group) to view an event that ordinarily wouldn't be accessible by the other person (or group).
Specimen Info	Details about the specimen. These include the date the specimen was taken, the number assigned to the specimen and the source of the specimen.
Status	Displays the current investigation status of the event, concern or investigation status of the event.
Task Specific Monitors	Workflows that usually have a due date and are often manually created by the user.
Tasks	A technique for users to manually delegate assignments or work to others within their group. Typically tasks have a due date. Tasks can be accessed from three places: the toolbar on the dashboard (Tasks button), the Add Task button in the Tasks tab in the Event Information section, and from the Workflow Queues page (the Add Task link under Task Specific Monitors).
Tasks Tab	Clicking the tasks tab will provide the user with information about all the tasks associated with the open event. Event tasks will display here regardless of who is assigned the task.
Tests	The details regarding the test that was done. These details include the test name, findings of the test and the date on which the results were determined. (The Delete link will display only for those users who have permission to delete a lab test result.)
Time	The date and time of the occurrence of the action.
User	The username of NC Lead user who performed the action. Any individual using the NC Lead system.
View & Update Full	Users will be able to view and edit the full range of questions. Has to do with Sharing a Case.
View & Update Limited	Users will be able to view and edit a limited number of questions based on settings entered "behind the scenes." Has to do with Sharing a Case.
View only Full	Provides the ability to see the full range of questions. Editing is not possible with these permissions. Has to do with Sharing a Case.
View only Limited	Provides the ability to see a limited number of questions based on settings entered "behind the scenes". Editing is not possible with these permissions. Has to do with Sharing a Case.
Workflow Queues	Allow users to keep up with events and work that needs to be done.

# Appendix E: Linking Property-Child Events

### **Environmental Users Only**

Learning Objectives:

1. Demonstrate the ability to link events

#### **Linking Events**

The ability to link one event to another is important for public health surveillance because it allows investigators to keep track of related events. Because all events are separate within the system, links are created to indicate how one is associated with another. There is no limit to the number of events that can be linked to one another.

#### Link Types

The ability to link events is a very powerful function within NC Lead. There are several link types built into the product which provide specificity when creating linked cases. The link type that NC Lead will be using is linking a PROPERTY to a CHILD.

#### Linking Property Events to Child Events

In NC Lead, linking will be the responsibility of ONLY the **Environmental Health Specialist**. Linking will only occur from a Property Event to a Child Event. The Environmental Activity question package provides the gateway for linking. The following activities enable linking to a child: Investigation, Abandonment Monitoring, Annual Monitoring, Attempt invest/Left Info, Clearance, Consultation, Other, PMP Quality Assurance Monitoring, Pre-certification Compliance Inspection, and Research Samples.

For the purpose of this exercise, we will be linking through an Investigation activity.

1.	Open the Pro	perty event	Open the	e Environmental	Activity of	puestion i	oackage.
••					, our go	10000001	paonago

Basic Information					Notes (Add/Edit	Show My Notes)			
Event ID:		00053							
Event Type:	Prop								
Name:		<u>S Linking Example St. R EIGH, NC 12345</u>	taleigh, NC 12345 * 9876	LINKING EXAMPLE ST.					
Address:			aleigh, NC 12345 (Edit)						
Dates:		te Date: 04/29/2010							
Investigation Statu					_				
Attachments:	0 att	achment(s) ( <u>Add</u> )			_				
Edit Event Pr	·	Copy Case							
	·	Copy Case	Site Information	Tasks	Event Properties	Event History			
nt Informatio	n Lab Results		Site Information	Tasks	Event Properties	Event History			
nt Informatio	n Lab Results	Concerns	Site Information	Tasks	Event Properties	Event History			
nt Informatio	n Lab Results Jes GE NAME	Concerns				Event History	LAST UPDATE	UPDATED BY	
nt Informatio	n Lab Results ges GE NAME ation 9876	Concerns E Linking Example St, Ra	aleigh, NC 12345 * 9876	LINKING EXAMPLE ST, I	RALEIGH, NC 12345	Event History	04/29/2010	tmoore	
nt Informatio	n Lab Results GE NAME tion 9376 ctivity 9876	Concerns E Linking Example St, Ra Linking Example St, Ra	aleigh, NC 12345 * 9876 aleigh, NC 12345 * 9876	LINKING EXAMPLE ST, I	RALEIGH, NC 12345 RALEIGH, NC 12345	Event History	04/29/2010 04/29/2010	tmoore tmoore	
nt Informatio	n Lab Results Jes GE NAME stion 9876 ctivity 9876 9876	Concerns E Linking Example St, Ra Linking Example St, Ra	aleigh, NC 12345 * 9876	LINKING EXAMPLE ST, LINKING EXAMPLE ST, LINKING EXAMPLE ST, I	RALEIGH, NC 12345 RALEIGH, NC 12345 RALEIGH, NC 12345	Event History	04/29/2010	tmoore	

2. Enter the Environmental Activity Date.

2. Environmental Activity Package, <u>9876 Linking Example St. Ra</u>	leigh, NC 12345 * 9876 LINKING EXAMPLE ST, RALEIGH, NC 1	2345 Property
		Save Cancel
	Environmental Activity	
County	Wake County	
Environmental Activity Date 🖂	04/02/2010 Add New	
Activity		
Save Cancel Help	Abandonment Monitoring Annual Monitoring Attempt InvestUeft Info Clearance Consultation Investigation Other PMP Application PMP Cuality Assurance Monitoring Pre-certification Compliance Inspection Research samples	

- 3. Choose Activity of Investigation
- 4. Complete the Investigator, Other Lead Team Members, and Property Type questions.
- 5. Answer "Does this activity also serve as an investigation/attempt for a child?" as YES.

Does this activity also serve as an investigation/attempt for a child?	Yes 🗸
* First Child's Name (if any)	1
Would you like to see supplemental risk questions?	

6. Click on the Search Button for the "First Child's name (if any)" question to open the Search Case window.

Search Case								
Search Criteria	3	Search Resu	ılts					
Event ID:		Search Resu	ilts					
Last Name:		Event ID	Name	Birth Date	Status	Event Type	Create Date	Site ID
First Name:								
Birth Date: (Inexact)								
Gender:	*							
Street Address:		No search done	•					
City:								
State:	NC 💌							
Zip Code:								
County:	~							
Event Type:	~							
Search Options	s							
Sort By:	Create Date 💙							
Sort Order:	Descending 💙	Use sele	cted case	C	ancel			
Search History:								
Search Soundex:								
Search	Clear							

Searching for Events is covered in detail in Chapter 3.

- 7. Enter parameter information into one or more of the event details fields. (For example, a first name or first few letters with a wildcard.)
- 8. Set the sort by criteria in the way you'd like the search results to appear.
- 9. Click Search. (Clicking the Clear button will delete any search parameters that have been entered.)
- 10. Search results will display in the table to the right of the screen, as shown.

Search Case								
Search Crite	ria	Search Resu	lts					
Event ID:		Search Resu	lts					
Last Name:	Ann*	Event ID	Name	Birth Date	Status	Event Type	Create Date	External ID
First Name:		10000005	Jennifer Annibel		Open	Blood Lead - Child	03/18/2010	11000005
Birth Date: ( <u>Inexact</u> )								
Gender:	~							
Street Address:		Displaying result	(s)1_1				<< First < Prev	/1/1 Next>Last>>
City:			<u></u>					
State:	×							
Zip Code:								
County:	×							
Event Type:	×							
Search Optic	ne							
Sort By:	Create Date V							
Sort Order:								
	Descending 💙							
Search History:		Use selei	ted case	Cancel				
Search Soundex	c 🔲							
Search	Clear							

- 11. Upon locating the event in question, select the corresponding line and click "Use selected Case" or simply double-click on the record.
- 12. This action automatically closes the search window and displays the selected child in the First Child's Name (if any) question.
- 13. Complete the rest of the question package questions as necessary.

When reviewing Property events or Child events, linked cases can be seen on the Event Summary screen.

BasicInformation		Notes (Add/Edit ShowMyNotes
Event ID:	10000053	
Event Type:	Property	
Name:	9876 Linking Example St, Raleigh, NC 12345*9876 LINKING EXAMPLE ST,	
	RALEIGH, NC 12345	
Address:	9876 Linking Example St, Raleigh, NC 12345 (Edit)	
Dates:	Create Date: 04/29/2010	
Investigation Status:	Open	
Attachments:	0 attachment(s) (Add)	
Additional Information:	Linked cases: 100000001 - POLLY WOGG - 123 Smith St, Burnsville, NC [Open]	_

You can view the cases that are linked to your event by clicking on the (Open) in the Additional Information field.

# Appendix F: Deduplication

### **Administrative Users Only**

Learning Objectives:

- 1. Demonstrate the ability to explain what deduplication is and why it's necessary.
- 2. Demonstrate the ability to deduplicate persons.
- 3. Demonstrate the ability to deduplicate events.
- 4. Demonstrate the ability to manually invoke deduplication.

#### Deduplication

The process of deduplication helps to avoid the existence of duplicate people or events within the database which ensures data integrity. This functionality provides the following benefits:

- Prevent duplicate events by alerting users to existing events with matching event information, NC LEAD deduplication functionality will reduce the chances of duplicate processing of the same event.
- Prevent duplicate persons by alerting users to existing people with matching demographic information, NC LEAD deduplication functionality will allow the same person record in the database to be linked and shared across events.

Both event and person demographic information is automatically checked for deduplication when:

- A new event is created in NC LEAD by a user
- Demographic information used in deduplication is updated. The person is then reevaluated to see if there is now a suspected match against other persons due to the new and/or updated demographic information.

To deduplicate persons a combination of name, date of birth, social security number and address is used to compute a similarity score. Deduplication is then triggered based on scores assigned to various fields.

#### **Event Deduplication**

Event deduplication is vital to ensure accurate data collection in NC LEAD.

Perform the following actions to deduplicate an event:

- 1. Create a childhood lead event using the same information as a previously created event.
- 2. Gregory Bryan's information is already in the database so the user will see the following screen. (All users in the system will be able to view this screen, regardless of deduplication permissions.)

Entered Information:	24					
Name:	Jenn	ifer Annibel				
Gender:						
Birth Date:	05/05	5/2005				
Social Security Number:						
Address:	NC			P	Proceed	
County:						
Country.	USA					
Phone:						
Email						
Matched Record 1		Jennifer Annihel (Defaile)				
Matched Record 1						
Matched Record 1 Name:		Jennifer Annibel [Details]				
Matched Record 1 Name: External ID:		Jennifer Annibel [Details] 11000005				
Matched Record 1 Name: Eidemal ID: Gender:		110000005				
Matched Record 1 Name: External ID: Gender: Birth Date:		05/05/2005			These Devices to second	
Matched Record 1 Name: Edemai ID: Gender: Birth Date: Social Security Number:		110000005 05/05/2005 555-55-555	999		Choose Party (creates new case)	1
Matched Record 1 Name: External ID: Gender: Birth Date: Social Security Number: Address:		110000005 05/05/2005 555-55-5555 101 Maple Dr, Raleigh, NC 995	999		Choose Party (creates new case)	1
Matched Record 1 Name: External ID: Gender: Birth Date: Social Security Number: Address: County:		110000005 05/05/2005 555-55-555	999		Choose Party (creates new case)	1
Matched Record 1 Name: External ID: Gender: Birth Date: Social Security Number: Address: Country: Country:		110000005 05/05/2005 555-55-5555 101 Magle Dr, Raleigh, NC 991 Wake County USA	999		Choose Party (creates new case)	1
Martched Record 1 Name: Edemail ID: Gender: Birth Date: Social Security Number: Address. Country: Country: Phone:		110000005 05/05/2005 555-55-5555 101 Maple Dr, Raleigh, NC 99 Wake County	999		Choose Party (creates new case)	1
Matched Record 1 Name: External ID: Gender: Birth Date: Social Security Number: Address. Country: Country: Phone:		110000005 05/05/2005 555-55-5555 101 Magle Dr, Raleigh, NC 991 Wake County USA	990		Choose Party (creates new case)	1
Matched Record 1 Name: Edemal ID: Gender: Binth Date: Social Security Number: Address: County: County: Phone: Email:		110000005 05/05/2005 555-55-5555 101 Magle Dr, Raleigh, NC 991 Wake County USA	999		Choose Party (creates new case)	0
Aatches: Marched Record 1 Name: Elemail D: Gender: Bith Date: Social Security Number: Address. Social Verunty Number: Address. County: County: County: Phone: Email: Vent ID: Vent ID:	Status	110000005 05/05/2005 555-55-5555 101 Magle Dr, Raleigh, NC 991 Wake County USA	999 Create Date	Action	Choose Party (creates new case)	

- 3. In this case, because the event is a duplicate, click the "Use this event" link to utilize the existing event and avoid creating a duplicate. If the event is not a match because this is a different Gregory Bryan, click the Proceed button to continue.
- 4. If the user selects "Use this event" the system will open that event in NC LEAD dashboard and will avoid creating the duplicate. If the user does not believe there is a match and therefore clicks Close, the user will be taken back to the create event screen and will need to click Save to continue to create the new event.

The following picture shows how events will be merged within NC LEAD. The pentagons are events while the rectangular box is a person within NC LEAD. Event 2 which displays at the bottom of the diagram could also have been Event 1, depending on which event had more accurate data. In this case, Event 2 was selected as the primary event. All attachments, labs, and links will be copied from Event 1 to Event 2.



#### **Person Deduplication**

Person deduplication is critical to ensure that the same person is not entered into the system more than one time. The person might be referenced more than once because he or she might have more than one event type over time, but events should always reference back to the same specific person.

In the example below, a new event for Gregory Bryan is created. Gregory already has an event in the system. The potential matches screen will alert the user that there is an existing person in the system with the same name and birthday. The user will then have the responsibility of determining if this is, in fact, the same person.

- 1. Create the event for Gregory Bryan with his actual birth date.
- Click the "Add" button. This prompts a deduplication check by the system. If there is not a match, the system continues to process the person as a new person. If there is a match, the system prompts the user with the Potential Matches screen (shown below) – in an attempt to avoid creating a duplicate event. (The screen below is only displayed for users with deduplication permissions.)

Entered Information:							
Name.	Jenn	ifer Annibel					
Gender	0.0111						
Birth Date:	05/0	5/2005					
Social Security Number				-			
Address:	NC			Pr	roceed		
County:							
Country.	USA						
Phone:							
Email:							
Matches: Matched Record 1 Name:		Jennifer Annibel [Details]					
Matched Record 1		Jennifer Annibel (Details)					
Matched Record 1 Name:	_	Jennifer Annibel [Details] 110000005					
Matched Record 1 Name: External ID:							
Matched Record 1 Name External ID Gender							
Matched Record 1 Name External ID Gender Birth Date:		110000005			Choose Party (crea	tes new case)	
Matched Record 1 Name: External ID: Gender Dirth Date: Social Security Number:		05/05/2005	9999		Choose Party (crea	les new case)	
Matched Record 1 Name: External ID: Gender Dirth Date: Social Security Number: Address: County		11000005 05/05/2005 055-55-5555 101 Maple Dr. Raleigh, NC 9 Wake County	9999		Choose Party (crea	les new case)	
Matched Record 1 Name: Edemal ID: Gender: Birth Date: Social Security Number: Address: County: County:		11000005 05/05/2005 555-55-5555 101 Muple Dr, Rateigh, NC 9 Wake County USA	9999		Choose Party (crea	tes new case)	
Matched Record 1 Name: External ID: Gender Birth Date: Social Security Number: Address. Country. Country. Phone:		11000005 05/05/2005 055-55-5555 101 Maple Dr. Raleigh, NC 9 Wake County	9999		Choose Party (crea	fles new case)	
Matched Record 1 Name: Edemal ID: Gender: Birth Date: Social Security Number: Address: County: County:		11000005 05/05/2005 555-55-5555 101 Muple Dr, Rateigh, NC 9 Wake County USA	0000		Choose Perty (srea	tes new case)	
Matched Record 1 Name. Gender. Birth Daler. Social Becurdy Number. Address. Country. Phone:		11000005 05/05/2005 555-55-5555 101 Muple Dr, Rateigh, NC 9 Wake County USA	9999		Choose Party (crea	tes new case)	
Matched Record 1 Name: External ID: Gender: Dich Date: Social Security Number: Address: County: County: Phone: Email:		11000005 05/05/2005 555-55-5555 101 Muple Dr, Rateigh, NC 9 Wake County USA	9999		Choose Perty (crea	des new case)	
Matched Record 1 Name: External ID: Gender Birth Date: Social Security Number: Address. Country. Country. Phone:	Status	11000005 05/05/2005 555-55-5555 101 Muple Dr, Rateigh, NC 9 Wake County USA	9999 Creste Date	Action	Choose Party (crea	les new case)	

- 3. This screen shows the user the existing information for the person entered and the user then decides if there is a match. If there is a match, the user clicks the "Choose Person (creates new event)" button and if this is not a match, the user clicks "Close" which creates a new person entry in the system.
- 4. If a match exists and the user clicks "Choose Person (creates new event)" the information for the match is entered at the bottom of the Create Event screen. At this point, click Save and continue as normal.

#### How to Avoid Creating Duplicates

The best way to avoid creating duplicate persons in the system is to be in the habit of clicking the Select Person or Select Property button before manually entering the event information. (This is also discussed in the create event section of this manual.)

Create Event - Property				
Event Information				
Event Type:	Property	×		
Site				
Site Name:				
Street Address:				
City:	State:	Zip Code:		
	NC 🔽			
County:				
×				
Select Site		Clear		
Jelett Bite		Clear		
Save Cano	el Help			

#### Create Event - Property

The Select Person and Select Site buttons are different than the Search Event button on the dashboard because rather than allowing the user to only see the events for which he has permission, they allow the user to see ALL of the persons or properties in the database - regardless of jurisdiction or event type.

Clicking this button brings up a search window similar to the search event window, but again it is only searching for person information. Use the search parameters on the left to enter the person data to determine if the person is already in the system. If the person is found, click the "Use Selected Person" button and continue to create your event. (If any demographic data has changed since the person was entered – such as the county of residence, please remember to update the information in the Persons tab on the Edit Person screen.) If the person is not found, the user knows that manually entering the information will not result in a duplicate person within the system.

#### **Deduplicating Persons**

Despite all of the system's efforts to avoid the creation of duplicate persons or events in the system, they will probably still occur occasionally. When there are duplicates in NC ELSS, follow the process described below to deduplicate the persons/events.

1. The user with deduplication permissions will notice that there is action required for deduplication within the workflow monitor. If it's an event to be deduplicated, as it is in this example, the first step in deduplication is person deduplication, and then the event deduplication process will begin. First the system will need to be notified that the person is indeed the same person. The user will see the following in the workflow monitor.

Dedunlication Import Monitors		
Person Deduplication (07/31/2007 10:17 AM EST)	1(0)	Details
Case Dedupleation (07/31/2007 10:17 AM EST)	0 (0)	
Outbreak Merge (07/31/2007 10:17 AM EST)	0(0)	

2. The user will click the details link to view the **person**(s) who need(s) to be deduplicated.

Name:	Jessi Simpkin	
External ID:	PDEDWYUNKNDWGC	
Gender:	Female	Select
Birth Date:	07/10/1980	Select
Social Security Nu	umber:	
Address:	NC	

3. In this case, Jessi Simpkin is the person that is to be deduplicated. Therefore, click the Select button beside her name.

Select	Allows the user to select the person to be deduplicated.
Workflows	Takes the user back to the workflows screen.
Dashboard	Takes the user back to the Dashboard screen to whichever event was active last or to a blank Dashboard screen if an event was not already active.

4. This action presents the user with the person matches such that the user may decide which person data to use as the Primary. The user should select the appropriate option based on the accuracy and amount of data in each. In this case, the user will click the "Use this match" button to select the bottom option. This is the option that provides the most data and the data is all accurate based on what is known to the user.

Person Deduplication

Source Record					
Name:		Jennifer Annibel [Details]			
External ID:		110000007			
Create Date:		03/18/2010			
Gender:		Female			
Birth Date:		05/05/2005			Keep separate
Social Security Number:					
Address:		NC			
County:					
Country:		USA			
Phone:					
Matches: Matched Record 1 [Score: 81.25]					
Name:	Jennifer A	nnibel (Details)			
External ID:	11000000	15			
Create Date:	03/18/201	0			
Gender:			Merge Type:	[Select]	*
Birth Date:	05/05/200	5			
Social Security Number:	555-55-55	55	Use th	nis match	Use match at top
Address:	101 Maple	Dr, Raleigh, NC 99999			
County:	Wake Col	inty			
Country:	USA				
Phone:	(H) (919)	555-5555			
Back Workflows Dashboa	rd	Help			

**Keep separate** Clicking this button tells the system that this is not the same person and that a new person should be created.

- Use this The data entered for this person will be the data that is used for the person. External ID ending with "...DHJ" would have been selected. (Please note that the address information would have been merged with the "...WGC" External ID entry since no address was entered in that entry; however if the address information was different, the information would not be overwritten by the merge.)
- Use match at Utilizes the person information for the person at the top. In this case it would have used External ID ending with "...WGC" instead of "...DHJ" but as stated above, the address information from the "...DHJ" entry would have had the address information added to it.)

#### **Deduplicating Events**

5. After having selected the appropriate person, the user can go back to the workflows screen to see that now there are **events** that need to be deduplicated. Click the Details link to display the events which need to be deduplicated.

Deduplication/Import Monitors		
Person Deduplication (07/31/2007 10:17 AM EST)	0.(0)	Details
Case Deduplication (07/31/2007 10:17 AM EST)	2 (0)	Details
Outbreak Merge (07/31/2007 10:17 AM EST)	0 (0)	

6. Choose the **EVENT** to deduplicate. In this case, the two displaying are the two that are a potential match therefore clicking the Select button on either of these will display the details of both for comparison purposes. Click the Select button for either event.

#### **Case Deduplication**

Event ID:	100000371	
Name:	* 1243 Piano Street, Raleigh, NC 99999	
Social Security Number	Select	
Address:	1243 Piano Street, Raleigh, NC 99999	
Event Type:	PMP Clearance	
Create Date:	12/11/2007	
Displaying result(s) 11	<< First < Prev 1/1 Next > Last >>	
Workflows Dashb	oard Help	

7. The user is now able to see details about both events. From this screen the user is able to get a feel for how much data collection has been done in each instance of the event. Additionally, there is a "Print Event" link beside each of the Event ID's. Clicking this link provides the user visibility to any of the fields that have been filled in which allows the user to check the accuracy of the data such that the proper case is selected as the Primary.

In the example shown below, there are more clinical questions answered in the lower match option so the user should look at the print template and verify the accuracy of the data. Upon verifying the data is accurate, the user in this scenario should select the lower option because more data has been entered in the Clinical question package.

Case Deduplication		
Source Record		
Name:	Jennifer Annibel	
External ID:	11000005	
Create Date:	03/18/2010	
Gender:		
Birth Date:	05/05/2005	
Social Security Number:	555-55-5555	
Address:	101 Maple Dr. Raleigh, NC 99999	
County:	Wake County	Keep separate
Country:	USA	reep separate
Phone:	(H) (919) 555-5555	
Event ID:	100000006 Print Event	
Event Type:	Blood Lead - Child	
Create Date:	03/18/2010	
Question Packages:	Administrative: 2 Answers	
	Clinical Assessment: 1 Answers	
	Demographic: 9 Answers	
	Medicaid Billing: O Answers	
Matches:		
Matched Record 1 [Score: 100.00]		
Name:	Jennifer Annibel	
External ID:	110000005	
Create Date:	03/18/2010	
Gender:		
Birth Date:	05/05/2005	
Social Security Number:	665-65-6556	
Address:	101 Maple Dr. Raleigh, NC 99999	
County:	Wake County	Use this match Use match at top
Country:	USA	Use this match Use match at top
Phone:	(H) (919) 555-5555	
Event ID:	100000005 Print Event	
Event Type:	Blood Lead - Child	
Create Date:	03/18/2010	
Question Packages:	Administrative: 3 Answers	
	Clinical Assessment: 4 Angwers	
	Demographic: 15 Answers	
	Medicaid Billing: 0 Answers	

8. Upon making the decision of which event to use as the Primary event, click the appropriate button. If the event below is the Primary, click the Use this Match button, if instead it's the one above, click the Use match at top button. If the events are truly not duplicates of one another, the user should click the Keep separate button.

In this scenario, the user would click the "Use this match" button.

9. Work can resume as normal on the event.

#### **Question Merging in Question Packages**

During deduplication, one event is selected to be the primary event and the other event is selected to be the secondary event. Any data that exists in the secondary event that does not conflict with the data in primary event will be copied over into the primary event. The secondary event is then discarded.

For answers in question packages, if an answer exists on the primary event and does not exist on the secondary event, then the answer from the primary event is kept. If an answer exists on the secondary event, and does not exist on the primary event, the secondary event will be copied to the primary event.

Example 1: Question - What is your	Example 1: Question - What is your favorite color?		
Event A (primary) Answer – Yellow	Event B (secondary) Answer– No Answer (field is blank)		
After merge: Event A (primary)	After merge: Event A (primary) Answer– Yellow		

Event A (primary) Answer – No	Event B (secondary) Answer -			
Answer (field is blank)	Blue			
Answer (field is blank)	Blue			

If the answers in the two questions packages conflict, then the answer from the primary event is kept.

Example 3: Question - What is you	Example 3: Question - What is your favorite color?			
Event A (primary) Answer – Yellow				
After merge: Event A (primary)	After merge: Event A (primary) Answer– Yellow			

#### Multi-select and Repeatable Questions

For multi-select questions, the answer on the primary event will contain all the values selected on both the primary and the secondary events.

Event A (primary) Answer –Event B (secondary) Answer –Yellow, Blue, GreenRed, Green, Purple	After merge: Event A (primary) Answer– Yellow, Blue, Green, Red Purple		
	Event A (primary) Answer – Yellow, Blue, Green		

The logic for repeatable questions is a bit more complex. NC ELSS compares each iteration of a repeatable question (and all of its descendant questions) on the secondary event to those on the primary event. If there is an iteration with all of the same values (for the repeatable question and its descendants) then the data is not copied over. If there is no match, a new iteration is created on the primary event and the repeatable question and all of its descendants are copied over.

Example 5: month?	Question (repeatable) – What movies have you seen in the pas
Event A (p	primary, iteration 1) Answer – Wall-E
Descendant	t Question – Rate it from 1 (good) to 5 (bad)
Descendant	t Question Answer – 1
Event A (p	primary, iteration 2) Answer – Wanted
Descendant	t Question – Rate it from 1 (good) to 5 (bad)
Descendant	t Question Answer – 3
Event B (s	econdary, iteration 1) Answer – Wall-E
	econdary, iteration 1) Answer – Wall-E t Question – Rate it from 1 (good) to 5 (bad)
Descendant	
Descendant Descendant	t Question – Rate it from 1 (good) to 5 (bad)
Descendant Descendant Event B (s	t Question – Rate it from 1 (good) to 5 (bad) t Question Answer – 2

Event A (primary, iteration 1) Answer – Wall-E Descendant Question – Rate it from 1 (good) to 5 (bad)	
Descendant Question – Rate it from 1 (good) to 5 (bad)	
Descendant Question Answer – 1	
Event A (primary, iteration 2) Answer – Wanted	
Descendant Question – Rate it from 1 (good) to 5 (bad)	
Descendant Question Answer – 3	
Event A (primary, iteration 3) Answer – Wall-E	
Descendant Question – Rate it from 1 (good) to 5 (bad)	
Descendant Question Answer – 2	
Event A (primary, iteration 4) Answer – Hancock	
Descendant Question – Rate it from 1 (good) to 5 (bad)	
Descendant Question Answer – 3	



# After merging takes place, the user may have to review the question packages on the primary event and perform some "cleanup" of the data.

Example: The demographic question package contains a question that asks for the patient's race. This is a repeating question. If for event A (primary) the Race is entered as White and for event B (secondary) the Race is entered as Asian, then after the merge, the answer will list **BOTH** White and Asian.

#### Manually Invoking Deduplication

As discussed, most deduplication issues within NC Lead are caught by the system and displayed in the workflow queues. Occasionally, however, deduplication may need to be forced manually by the user because initially it was thought that the person or event were not matches but later it is determined that they were a match.

To deduplicate an *event*, open the event to be deduplicated and then click the Edit Event Properties button on NC Lead dashboard. Change the Deduplication Status to pending.

Event ID:	100000663
Change Type To:	~
Status:	Open
Change Status To:	~
Note:	
Note Type:	Public 🗸
Deduplication Status:	Done 🔽

#### Edit Event Properties - Gregory Wayne Bryan - Blood Lead - Child

To deduplicate a *person*, open an event for the person to be deduplicated and then click the Persons tab on NC ELSS dashboard. Click the Edit Person button. Change the Deduplication Status to pending.

#### Edit Person - Gregory Wayne Bryan - Blood Lead - Child

Edit Person	
First Name:	Gregory
Middle Name:	Wayne
Last Name:	Bryan
Birth Date:	08/25/2002
Gender:	Male
Social Security Number:	
Deduplication Status:	Bone *

Upon changing the status(es) of the persons or events to be deduplicated to pending, the workflow queue page should display that there are either persons or events to be deduplicated. Follow the procedure as explained above to deduplicate the persons or events.

When person deduplication is complete; this may cause event deduplication to become necessary. Follow the procedures outlined previously in this chapter to complete this process. If there no event matches, the message "no matches found" will display on the Case Deduplication screen.

# Appendix G: Closing Events

### **Administrative Users Only**

Learning Objectives:

- 1. Close an event in NC ELSS
- 2. Reopen an event within NC ELSS

#### **Closing an Event**

When an investigation is completed, it is important to close events as appropriate to maintain accurate records. Close an event by performing the following procedure:

- 1. Be sure that the event to be closed is displayed on NC Lead Dashboard.
- 2. Click the Edit Event Properties button just under the Summary Information section of the screen.
- 3. In Change Status To, select the dropdown option that says Closed.

#### Edit Event Properties - Gregory Wayne Bryan - Blood Lead - Child

Event Information	
Event ID:	10000663
Change Type To:	×
Status:	Open
Change Status To:	Closed V
Note:	
	~
	2500 characters left
Note Type:	Public 💙
Replace Previous Note:	No 🗸
Deduplication Status:	Done 💙
Save Ca	incel Help

- 4. If necessary, enter any relevant notes in the Add Note text area.
- 5. Click Save to save your changes.

Note that there is a difference between closing an event and changing the event type status. Changing the event type status is done in the Administrative package and only refers to the status of the patient's event whereas the event status refers to the status of the investigation. Therefore, if the event classification status is "Does Not Meet Criteria" it is necessary to first select this classification status and then to close the event – utilizing the procedure covered above.

#### **Reopen a Closed Event**

If an event was closed prematurely, it can be reopened by someone with the appropriate privileges. To reopen an event, first locate the event to be reopened. (This can be done by searching for the event.) When the event to be reopened is being displayed on the NC Lead dashboard, click the Edit Event Properties button and change the Change Status To dropdown to Open.