



Program F Tier 2 Application

Recipient: IL

F: Foodborne, Waterborne, Enteric, and Environmentally Transmitted Diseases: Surveillance, Detection, Response, Reporting, and Prevention

Workplan Template - Editable Word Document

Attachment: [F-TierTwo-FoodWaterEntericEnviroDiseasesProgram_Workplans_Blank.docx](#) (0.06 MB)

NOTE: If you do not see content on this page, please return to the "Overview of Application" page and select the appropriate project.

Strategy 13) Tier 2 CryptoNet: Enhance investigation and outbreak response

a) Enhanced epidemiologic interviews and investigations.

- i) Improve interviewing timeliness and completeness: this includes attempting to interview all cases of cryptosporidiosis.
- ii) Review exposure data for subtyping clusters in real-time.

13.a - Implementation Plan

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Strategy 14) Tier 2 CryptoNet: Improve surveillance and reporting

a) Assess feasibility of implementing electronic transmission of CryptoNet case report form.

- i) Collect all data elements in CryptoNet case report form for each case for which a Cryptosporidium specimen is submitted for subtyping to CryptoNet.
- ii) Routinely transmit/send data to CDC CryptoNet program.
- iii) Implement FDD MMG cryptosporidiosis tab.

14.a - Implementation Plan

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Strategy 15) Tier 2 CryptoNet: Enhance laboratory testing for response

a) Enhanced case investigation response and reporting.

- i) Provide recommendations and guidance to laboratories within the appropriate region on issues related to laboratory testing or programmatic changes (i.e., WGS).
- ii) Serve as a resource for surge capacity testing and reference capabilities in response to large outbreaks.

15.a - Implementation Plan

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b) Sustain and enhance laboratory diagnostic/subtyping capacity.

- i) Actively participate in evaluation and/or verification of new methods, testing of new software modules and scripts, adopt improvements to laboratory analysis, communications processes in a timely fashion.
- ii) Conduct subtyping and/or WGS using CryptoNet protocols for Cryptosporidium clinical cases and zoonosis-related animal specimens, when available.

15.b - Implementation Plan

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Strategy 16) Tier 2 CryptoNet: Enhance laboratory testing for surveillance and reporting

a) Enhanced public health laboratory surveillance.

- i) If possible, conduct subtyping of specimens according to CryptoNet protocols.
- ii) If certified, conduct near real-time subtyping of Cryptosporidium positive stools using CryptoNet protocols.
- iii) If certified, upload subtyping results and associated metadata to CryptoNet using PulseNet infrastructure.
- iv) If possible, conduct WGS-based typing of Cryptosporidium positive specimens.
- v) If conducting WGS-based typing in state public health laboratory is not feasible, ship specimens to the CryptoNet Reference Laboratory at CDC.

16.a - Implementation Plan

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Strategy 17) Tier 2 Cyclospora: Strengthen laboratory testing for response

a) Conduct genotyping of Cyclospora as part of case or outbreak investigations.

17.a - Implementation Plan

A memo will be distributed yearly on May 1 to notify commercial and hospital laboratories to submit specimens to the IDPH laboratory from May through August. The IDPH Foodborne Program will collaborate with the IDPH Laboratory to provide case surveillance identification numbers to link with specimen identification numbers. The IDPH Laboratory will submit specimens positive for Cyclospora to the CDC utilizing the submission form provided by CDC.

Milestone	Achieve by date	Person Responsible
1. Send a memo to commercial and hospital laboratories instructing them to send Cyclospora positive specimens to the IDPH Laboratory from May 1 through the end of August	May 2023	Shana Altman
2. 100% of Cyclospora specimens sent to CDC will include the case surveillance and specimen identification numbers	June 2023	Kristin Campbell, Carlos Morak
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Strategy 18) Tier 2 Environmental Microbiology: Enhance workforce capacity

a) Support a well-trained staff to conduct testing of environmental samples for waterborne disease investigations.

i) Ensure staff are trained in required lab procedures to process and test environmental samples (e.g., water [small and/or large volume], soil, surface, and other samples) for fecal contamination, etiologic agents, and physicochemical water quality parameters.

18.a - Implementation Plan

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Strategy 19) Tier 2 Environmental Microbiology: Enhance laboratory testing for response

a) Collaborate with CDC to develop metrics for environmental investigations as part of waterborne disease outbreak response.

19.a - Implementation Plan

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b) Develop or maintain capacity to conduct testing of environmental samples for waterborne disease investigations.

i) Process and test environmental samples (e.g., water [small and/or large volume], soil, surface, and other samples) for fecal contamination, etiologic agents, and physicochemical water quality parameters.

19.b - Implementation Plan

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Strategy 20) Tier 2 FoodCORE: Enhance investigation and outbreak response

a) Enhanced epidemiologic interviews and investigations.

- i) **Improve interviewing timeliness and completeness: this includes attempting to interview all cases of Salmonella, Listeria, and STEC Infection, all cases with WGS/NARMS testing results.**
- ii) **Review exposure data for subtyping clusters in real-time.**
- iii) **Obtain product information from patients infected with a strain of bacteria that matches a subtyped strain in food product.**
- iv) **Participate in team trainings with state and local staff in outbreak investigation methods.**

20.a - Implementation Plan

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b) Enhanced environmental health-related investigation and response activities.

- i) Conduct assessments as part of cluster, outbreak, and complaint investigations.
- ii) Obtain samples (and associated product information) of implicated and suspect products for testing, as appropriate.

20.b - Implementation Plan

Milestone	Achieve by date	Person Responsible
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c) Report program-specific metrics to CDC.

- i) Working with CDC, develop/modify metrics and report via collaboratively determined mechanisms and timeliness. Current metrics available at: <https://www.cdc.gov/foodcore/metrics/index.html>.

20.c - Implementation Plan

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Strategy 21) Tier 2 FoodCORE: Improve surveillance and reporting

a) Assess feasibility of implementing NORSDirect and NEARS; if you have already determined feasibility, please describe either the plan for implementation or identified barriers (if determined not to be feasible).

21.a - Implementation Plan

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Strategy 22) Tier 2 FoodCORE: Enhance laboratory testing for surveillance and reporting

a) Enhanced public health laboratory surveillance.

- i) Ensure routine transport of clinical specimens and specimens from outbreak-associated cases to the public health laboratory.
- ii) Conduct real-time subtyping of all Salmonella, STEC, and Listeria.
- iii) Conduct real-time testing/diagnostics of parasitic identification and calicivirus characterization.
- iv) Collect serologic samples from persons with Hepatitis A virus infection linked to foodborne disease outbreaks for molecular characterization.

22.a - Implementation Plan

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Strategy 23) Tier 2 FoodNet: Enhance workforce capacity

a) Support staff to collect and submit epidemiological data to CDC.

- i) Ensures coordination with laboratory for prioritizing isolate sequencing of cases with exposure and antimicrobial use information, historic and prospective.
- ii) Works with laboratory point of contact to link laboratory and epidemiologic data.
- iii) Ensures epidemiologic interviews and data is complete and submitted to CDC FoodNet.

23.a - Implementation Plan

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Strategy 24) Tier 2 FoodNet: Improve surveillance and reporting

a) Enhance epidemiologic interviews and data collection.

- i) Complete interviews of patients for standardized demographic, clinical, and travel data elements.
- ii) Collect diagnostic method and test brand used for enteric testing.
- iii) Coordinate with clinical diagnostic laboratories for appropriate specimen submission.
- iv) Collect standardized data elements associated with antimicrobial resistance infections and case exposure ascertainment.
- v) Complete transmission of data to CDC FoodNet on or before timelines requested by program.

24.a - Implementation Plan

Milestone	Achieve by date	Person Responsible
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b) Conduct surveillance for emerging enteric pathogens.

- i) Collect standardized data associated with FoodNet designated pathogens for pathogens currently state reportable or not requiring IRB (e.g., ETEC, EAEC).
- ii) Complete submission of data to CDC FoodNet on or before timelines requested by program.
- iii) Participate in project to evaluate polymicrobial detections.

24.b - Implementation Plan

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c) Conduct surveillance for laboratory testing practices data for laboratories reporting to FoodNet sites.

- i) Collect standardized data elements associated with laboratory testing practices.
- ii) Complete yearly submission of data to CDC FoodNet on or before timelines request by program.

24.c - Implementation Plan

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Strategy 25) Tier 2 FoodNet: Enhance laboratory testing for surveillance and reporting

a) Conduct laboratory testing and subtyping for FoodNet activities.

- i) Develop laboratory capability for parallel testing by CIDT and culture.
- ii) Develop laboratory capability for testing of emerging enteric pathogens.
- iii) Enhance capacity to reflex culture.
- iv) Enhance capacity to sequence historic and prospective isolates with exposure and antimicrobial use data.

25.a - Implementation Plan

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b) Store/preserve isolates for future characterization.

- i) Ensure all isolates with exposure and antimicrobial epidemiologic information are stored.
- ii) Store a sample of isolates for all FoodNet pathogens.

25.b - Implementation Plan

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Strategy 26) Tier 2 FoodNet: Enhance coordination between lab-epi-HIS

a) Develop and implement a plan for prioritizing isolate sequencing, historic and prospective, and epidemiologic interviews.

i) Laboratory and epidemiology staff must be involved in plan development and implementation.

26.a - Implementation Plan

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Strategy 27) Tier 2 FoodNet: Advance electronic information exchange implementation

a) Update site surveillance systems to collect and transmit FoodNet active surveillance data through HL7. Recommended milestones: have performed gap analysis using FDD MMG; have incorporated FoodNet data elements into state electronic surveillance system OR ensured elements are mapped into the HL7 message to be sent to CDC; have transmitted test messages with FoodNet-specific data elements to CDC; have validated HL7 FoodNet data with CDC staff; have completed full migration to HL7 data transmission.

27.a - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

Strategy 28) Tier 2 FoodNet: Sustain and/or enhance information systems

a) Develop/maintain the ability to link laboratory data with FoodNet epidemiologic data.

- i) Ensure laboratory specimen identifiers for PulseNet sequence information (e.g., PulseNet key, WGS ID) is transmitted to CDC.

28.a - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

Strategy 29) Tier 2 HAB: Improve surveillance and reporting

a) Address public health issues related to harmful algal blooms in one or more of the following areas: surveillance, mitigation, or event response.

- i) Ongoing surveillance, detection, investigation, and reporting of HAB-associated illnesses (human and animal) and events, as well as HAB-associated outbreaks.
- ii) Report HAB associated event and illness data (human and animal) to OHHABS and NORS (foodborne outbreaks, waterborne outbreaks).
- iii) Develop protocol and resources for public health response and mitigation to HAB events.
- iv) Utilization of a One Health approach at state and local levels to build relationships supportive of HAB surveillance, mitigation, or event response in the state.

29.a - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input data-bbox="123 149 594 296" type="text"/>	<input data-bbox="610 191 813 228" type="text"/>	<input data-bbox="946 191 1255 228" type="text"/>
2. <input data-bbox="123 338 594 485" type="text"/>	<input data-bbox="610 380 813 417" type="text"/>	<input data-bbox="946 380 1255 417" type="text"/>
3. <input data-bbox="123 527 594 674" type="text"/>	<input data-bbox="610 569 813 606" type="text"/>	<input data-bbox="946 569 1255 606" type="text"/>
4. <input data-bbox="123 716 594 863" type="text"/>	<input data-bbox="610 758 813 795" type="text"/>	<input data-bbox="946 758 1255 795" type="text"/>
5. <input data-bbox="123 905 594 1052" type="text"/>	<input data-bbox="610 947 813 984" type="text"/>	<input data-bbox="946 947 1255 984" type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input data-bbox="123 1167 662 1199" type="text"/>	Line Item #4: <input data-bbox="708 1167 1247 1199" type="text"/>
Line Item #2: <input data-bbox="123 1236 662 1268" type="text"/>	Line Item #5: <input data-bbox="708 1236 1247 1268" type="text"/>
Line Item #3: <input data-bbox="123 1306 662 1337" type="text"/>	Line Item #6: <input data-bbox="708 1306 1247 1337" type="text"/>

b) Document current processes and resources within your jurisdiction for submission of clinical specimens from humans or animals associated with exposures to HABS for testing (e.g., necropsy, toxin detection, diagnostic).

29.b - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input data-bbox="121 149 596 294" type="text"/>	<input data-bbox="613 191 812 226" type="text"/>	<input data-bbox="948 191 1260 226" type="text"/>
2. <input data-bbox="121 338 596 483" type="text"/>	<input data-bbox="613 380 812 415" type="text"/>	<input data-bbox="948 380 1260 415" type="text"/>
3. <input data-bbox="121 527 596 672" type="text"/>	<input data-bbox="613 569 812 604" type="text"/>	<input data-bbox="948 569 1260 604" type="text"/>
4. <input data-bbox="121 716 596 861" type="text"/>	<input data-bbox="613 758 812 793" type="text"/>	<input data-bbox="948 758 1260 793" type="text"/>
5. <input data-bbox="121 905 596 1050" type="text"/>	<input data-bbox="613 947 812 982" type="text"/>	<input data-bbox="948 947 1260 982" type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input data-bbox="121 1165 662 1199" type="text"/>	Line Item #4: <input data-bbox="706 1165 1247 1199" type="text"/>
Line Item #2: <input data-bbox="121 1239 662 1272" type="text"/>	Line Item #5: <input data-bbox="706 1239 1247 1272" type="text"/>
Line Item #3: <input data-bbox="121 1312 662 1346" type="text"/>	Line Item #6: <input data-bbox="706 1312 1247 1346" type="text"/>

c) Explore the feasibility (e.g., legal requirements, procedural considerations) of submitting clinical specimens from humans or animals associated with exposures to HABs to CDC or other laboratories with supporting capabilities. For jurisdictions that already submit human clinical specimens or animals, this activity might consider ways to improve current efforts (e.g., timeliness) or additional types of submissions (e.g., beginning to submit animals for necropsy).

29.c - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input data-bbox="121 149 596 296" type="text"/>	<input data-bbox="609 191 813 226" type="text"/>	<input data-bbox="945 191 1256 226" type="text"/>
2. <input data-bbox="121 340 596 487" type="text"/>	<input data-bbox="609 382 813 417" type="text"/>	<input data-bbox="945 382 1256 417" type="text"/>
3. <input data-bbox="121 531 596 678" type="text"/>	<input data-bbox="609 573 813 609" type="text"/>	<input data-bbox="945 573 1256 609" type="text"/>
4. <input data-bbox="121 722 596 869" type="text"/>	<input data-bbox="609 764 813 800" type="text"/>	<input data-bbox="945 764 1256 800" type="text"/>
5. <input data-bbox="121 913 596 1060" type="text"/>	<input data-bbox="609 955 813 991" type="text"/>	<input data-bbox="945 955 1256 991" type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input data-bbox="121 1171 664 1199" type="text"/>	Line Item #4: <input data-bbox="706 1171 1248 1199" type="text"/>
Line Item #2: <input data-bbox="121 1239 664 1266" type="text"/>	Line Item #5: <input data-bbox="706 1239 1248 1266" type="text"/>
Line Item #3: <input data-bbox="121 1306 664 1333" type="text"/>	Line Item #6: <input data-bbox="706 1306 1248 1333" type="text"/>

Strategy 30) Tier 2 HAB: Implement public health interventions and tools

a) Make public health response resources for HAB events (e.g., protocols, risk communication, and response materials) publicly available on your jurisdiction's website.

30.a - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

b) Explore the feasibility of creating and posting a HAB response toolkit on your jurisdiction's public-facing website. If feasible create and post a HAB response toolkit on your jurisdiction's public-facing website; if not feasible, document the primary barriers. A HAB response toolkit includes information about the jurisdiction's response protocols and relevant communications resources (e.g., FAQs, press release templates, etc.).

30.b - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input data-bbox="123 149 594 296" type="text"/>	<input data-bbox="610 191 813 226" type="text"/>	<input data-bbox="946 191 1255 226" type="text"/>
2. <input data-bbox="123 338 594 485" type="text"/>	<input data-bbox="610 380 813 415" type="text"/>	<input data-bbox="946 380 1255 415" type="text"/>
3. <input data-bbox="123 527 594 674" type="text"/>	<input data-bbox="610 569 813 604" type="text"/>	<input data-bbox="946 569 1255 604" type="text"/>
4. <input data-bbox="123 716 594 863" type="text"/>	<input data-bbox="610 758 813 793" type="text"/>	<input data-bbox="946 758 1255 793" type="text"/>
5. <input data-bbox="123 905 594 1052" type="text"/>	<input data-bbox="610 947 813 982" type="text"/>	<input data-bbox="946 947 1255 982" type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input data-bbox="123 1167 662 1199" type="text"/>	Line Item #4: <input data-bbox="708 1167 1247 1199" type="text"/>
Line Item #2: <input data-bbox="123 1236 662 1268" type="text"/>	Line Item #5: <input data-bbox="708 1236 1247 1268" type="text"/>
Line Item #3: <input data-bbox="123 1306 662 1337" type="text"/>	Line Item #6: <input data-bbox="708 1306 1247 1337" type="text"/>

c) Disseminate public-facing health promotion and disease prevention information (e.g., press release, web content, social media, newsletters, onsite signage, etc.) during HAB responses through your jurisdiction's communication channels and support similar efforts by local jurisdictions (e.g., cities), as needed.

30.c - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

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Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

Strategy 31) Tier 2 NoroSTAT: Improve surveillance and reporting

a) Report all suspected and confirmed norovirus outbreaks due to any mode of transmission through NORS within 7 business days of notification of the outbreak to the state health department.

i) Provide a minimum set of data elements in the NORS outbreak reports (includes: state, date of outbreak, number ill, suspected or confirmed etiology, and setting).

31.a - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

b) Report all laboratory-confirmed norovirus outbreaks due to any mode of transmission through CaliciNet within 7 business days of receipt of outbreak specimens.

i) Include a unique outbreak identifier in CaliciNet reports enabling linkage of those records with the appropriate NORS outbreak report.

31.b - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

Strategy 32) Tier 2 NREVSS Improve surveillance and reporting

a) Establish and/or increase participation in clinical laboratory reporting of aggregate norovirus diagnostic results via the National Respiratory and Enteric Virus Surveillance System (NREVSS), either directly or indirectly through local/state health departments.

32.a - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

b) Request aliquots/residual stool specimens from patients that test positive for norovirus at clinical laboratories reporting to NREVSS to be sent to public health laboratories for further confirmation and genotyping, including upload of sequences to CaliciNet.

32.b - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

c) Enter corresponding demographic and clinical data on patients whose specimens were tested at public health laboratories and sequences uploaded to CaliciNet.

32.c - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

Strategy 33) Tier 2 NWSS: Coordinate and partner to optimize national wastewater surveillance

a) Facilitate timely and complete communications, sample collection, wastewater testing, and data sharing among implementing partners through the identified NWSS coordinator(s).

33.a - Implementation Plan

Utilize existing wastewater Program Manager to maintain, to enhance, and to advance the Illinois Wastewater Surveillance System (IWSS) as part of NWSS. Specific staffing positions are written into the ELC BP4 budget for Illinois' Tier 2: NWSS to provide for and to fund program management leadership and support.

Milestone	Achieve by date	Person Responsible
1. Oversee and manage execution of Work Order #1500024I and subsequent extension amendment.	August 2022	Chief of Testing, Designated IW.
2. Coordinate data sharing, including maintaining routine submission to NWSS Data Collation and Integration for Public Health Event Response (DCPHER platform).	August 2022	Chief of Testing, Designated IW.
3. Publish IDPH site page or microsite for public presentation of wastewater data.	December 2022	Chief of Testing, Public Informa
4. [Empty text box]	[Empty text box]	[Empty text box]
5. [Empty text box]	[Empty text box]	[Empty text box]

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.2_P3 TBD - F.2 - Program Manager I	Line Item #4: [Empty text box]
Line Item #2: F.2_P4 TBD - F.2 - Program Coordinator	Line Item #5: [Empty text box]
Line Item #3: F.2_O1 IGA with UoI - Work Order #1500024I	Line Item #6: [Empty text box]

b) Ensure at least one health department representative participates in the NWSS Public Health Community of Practice.

33.b - Implementation Plan

The IDPH designated wastewater Program Manager has historically attended and participated in both the NWSS Public Health Community of Practice (CoP) as well as the smaller NWSS cohort meetings. This Program Manager will continue to attend and to participate in these meetings.

Milestone	Achieve by date	Person Responsible
1. Ensure program staff receive meeting invites for BP4 NWSS CoP and cohort calls.	<input type="text" value="August 2022"/>	<input type="text" value="Chief of Testing, Designated wa"/>
2. Attend all 2022/2023 NWSS CoP and cohort calls.	<input type="text" value="June 2023"/>	<input type="text" value="Designated wastewater Prograr"/>
3. Attend 2023 Public Health and Water Conference & Wastewater Disease Surveillance co-hosted by NWSS.	<input type="text" value="March 2023"/>	<input type="text" value="Designated wastewater Prograr"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text" value="F.2_P3 TBD - F.2 - Program Manager I"/>	Line Item #4: <input type="text" value="F.2_O2 Public Health and Water Conference & Wastewater"/>
Line Item #2: <input type="text" value="F.2_P4 TBD - F.2 - Program Coordinator"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text" value="F.2_T1 Public Health and Water Conference & Wastewater I"/>	Line Item #6: <input type="text"/>

c) Coordinate utility participation in wastewater surveillance, including, but not limited to, communications, data sharing, and provision of funding support for sample collection.

33.c - Implementation Plan

Coordinate IDPH public health communications to System partners, including to utilities, to the public, and to the media. Enforce Work Order #15000024I.

Milestone	Achieve by date	Person Responsible
1. Utilize increased program staff, including dedicated utility outreach staff through Work Order #15000024I, to manage consistent, continuous communication with participating utilities.	September 2022	Designated wastewater Program
2. Explore direct funding support for sample collection labor (in addition to providing sample collection and shipping material).	January 2023	Designated wastewater Program
3. Increase county and population coverage of the System.	June 2023	Designated wastewater Program
4. [Empty text box]	[Empty text box]	[Empty text box]
5. [Empty text box]	[Empty text box]	[Empty text box]

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.2_O1 IGA with UoI - Work Order #15000024I	Line Item #4: F.2_P4 TBD - F.2 - Program Coordinator
Line Item #2: F.2_P3 TBD - F.2 - Program Manager I	Line Item #5: [Empty text box]
Line Item #3: F.2_T1 Public Health and Water Conference & Wastewater I	Line Item #6: [Empty text box]

Strategy 34) Tier 2 NWSS: Surveillance data management

a) Coordinate data management, record keeping and reporting for wastewater testing to produce reliable, actionable, and high-quality data for public health action. Implement wastewater sampling strategies and protocols for submission of data to the health department and CDC.

34.a - Implementation Plan

Designated wastewater Program Manager and support staff, as well as IDPH Data Intel personnel and epidemiologists, to receive wastewater data. Illinois Wastewater Surveillance System (IWSS)-dedicated testing laboratory to maintain Laboratory Information Management System (LIMS) and to transfer data to IDPH.

Milestone	Achieve by date	Person Responsible
1. Supervise quality control of LIMS and sample collection and testing data.	August 2022	Chief of Testing, Designated was
2. Receive, collate wastewater testing data from IWSS contracted partner to IDPH.	September 2022	Designated wastewater Program
3.		
4.		
5.		

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.2_P3 TBD - F.2 - Program Manager I	Line Item #4:
Line Item #2: F.2_P4 TBD - F.2 - Program Coordinator	Line Item #5:
Line Item #3: F.2_O1 IGA with UoI - Work Order #15000024I	Line Item #6:

b) Submit wastewater from one or more wastewater systems to the NWSS DCIPHER portal at least weekly.

i) Provide required set of wastewater data elements to the NWSS DCIPHER portal, including sewershed boundary shapefiles.

ii) Provide sewershed-level case data as requested.

34.b - Implementation Plan

IDPH to maintain twice-weekly routine NWSS DCIPHER portal data submission and to increase resolution, utility of wastewater and case data.

Milestone	Achieve by date	Person Responsible
1. IDPH to continue uploading CSV files to DCIPHER with updated sample testing results.	August 2022	Designated wastewater Program
2. Align case data to geographic areas, including shapefiles and zipcodes, and submit to DCIPHER.	October 2022	Designated wastewater Program
3. Obtain all utility shapefiles.	June 2023	Designated wastewater Program
4.		
5.		

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.2_P3 TBD - F.2 - Program Manager I	Line Item #4:
Line Item #2: F.2_P4 TBD - F.2 - Program Coordinator	Line Item #5:
Line Item #3: F.2_O1 IGA with UoI - Work Order #1500024I	Line Item #6:

c) Optimize protocols for data timeliness and quality, including minimizing the time from sample collection to data submission to CDC and maximizing quality of submitted data.

34.c - Implementation Plan

Oversee data timeliness and quality control. Enforce adherence to Work Order #1500024I expectations and scope of work.

Milestone	Achieve by date	Person Responsible
1. Develop wastewater sample collection and reporting timeline to ensure quality control expectations are met.	August 2022	Designated wastewater Program
2. Solve identified delays or deficiencies in sample collection, provision, and reporting.	October 2022	Designated wastewater Program
3.		
4.		
5.		

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.2_P3 TBD - F.2 - Program Manager I	Line Item #4:
Line Item #2: F.2_P4 TBD - F.2 - Program Coordinator	Line Item #5:
Line Item #3: F.2_O1 IGA with UoI - Work Order #15000024I	Line Item #6:

Strategy 35) Tier 2 NWSS: Surveillance data analysis

a) Review and interpret wastewater surveillance data to inform epidemiologic and programmatic decisions related to SARS-CoV-2 infection.

35.a - Implementation Plan

IDPH leadership, including Bureau of Testing and Epidemiologists, to review wastewater data and analysis weekly and to integrate information into the broader public health approach.

Milestone	Achieve by date	Person Responsible
1. Host weekly all program IWSS meeting between IDPH and IDPH-contracted System partner Discovery Partners Institute (DPI), part of the University of Illinois system to review wastewater SARS-CoV-2 data.	<input type="text" value="August 2022"/>	<input type="text" value="Designated wastewater Progran"/>
2. Explore application of SARS-CoV-2 surveillance program and data to other public health pathogens of concern.	<input type="text" value="December 2022"/>	<input type="text" value="Designated wastewater Progran"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text" value="F.2_P3 TBD - F.2 - Program Manager I"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text" value="F.2_O1 IGA with UoI - Work Order #15000024I"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text" value="F.2_P4 TBD - F.2 - Program Coordinator"/>	Line Item #6: <input type="text"/>

b) Disseminate data to key implementing partners such as wastewater utilities.

35.b - Implementation Plan

Utilize public facing resources, including the CDC COVID-19 Data Tracker, as well as exploratory options to publish wastewater data on the IDPH website or to co-host a microsite with contracted partner DPI. Optimize Local Health Department (LHD) COVID-19 dashboard reports to format to disseminate to wastewater utilities.

Milestone	Achieve by date	Person Responsible
1. Direct utilities to CDC COVID-19 Data Tracker to view wastewater data.	<input type="text" value="August 2022"/>	<input type="text" value="Designated wastewater Prograr"/>
2. Leverage LHD reporting resources, adapt for wastewater utility audience.	<input type="text" value="October 2022"/>	<input type="text" value="Designated wastewater Prograr"/>
3. Enhance IDPH public-facing wastewater reporting.	<input type="text" value="January 2023"/>	<input type="text" value="Designated wastewater Prograr"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text" value="F.2_O1 IGA with UoI - Work Order #15000024I"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text" value="F.2_P3 TBD - F.2 - Program Manager I"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text" value="F.2_P4 TBD - F.2 - Program Coordinator"/>	Line Item #6: <input type="text"/>

Strategy 36) Tier 2 NWSS: Enhance laboratory capacity for wastewater testing

a) Participate in the NWSS Laboratory Community of Practice.

36.a - Implementation Plan

IDPH designated wastewater Program Manager and Assistant Division Chief for the Division of Laboratories, as well as IWSS science partners, attended 2021-22 NWSS Laboratory Community of Practice (CoP) calls hosted by the Association of Public Health Laboratories (APHL). Staff will continue to attend and to participate in Laboratory CoP.

Milestone	Achieve by date	Person Responsible
1. Ensure IDPH staff are invited to Laboratory CoP calls.	August 2022	Designated wastewater Program
2. Engage in APHL polls, request for information.	September 2022	Designated wastewater Program
3.		
4.		
5.		

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.2_P3 TBD - F.2 - Program Manager I	Line Item #4:
Line Item #2: F.2_P4 TBD - F.2 - Program Coordinator	Line Item #5:
Line Item #3: 	Line Item #6:

b) Plan and implement laboratory workflows to safely receive, process, and test wastewater samples within the public health laboratory.

36.b - Implementation Plan

Oversee IDPH-contracted laboratory partner Discovery Partners Institute (DPI) to maintain and to enhance the IWSS-dedicated, high-throughput wastewater dPCR testing laboratory. Ensure provision of adequate IWSS laboratory equipment and supplies. Follow best practices for safely receiving, processing, and testing wastewater samples. Transfer wastewater laboratory knowledge to IDPH public health laboratories.

Milestone	Achieve by date	Person Responsible
1. Enforce adherence to Work Order #1500024I, which requires DPI to maintain and to enhance wastewater testing laboratory with a throughput of 300 samples per week.	August 2022	Chief of Testing, designated was
2. Plan for transfer of knowledge, operating procedures to IDPH.	June 2023	Chief of Testing, designated was
3.		
4.		
5.		

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.2_O1 IGA with UoI - Work Order #15000024I	Line Item #4:
Line Item #2: F.2_P3 TBD - F.2 - Program Manager I	Line Item #5:
Line Item #3: F.2_P4 TBD - F.2 - Program Coordinator	Line Item #6:

c) Evaluate and, if feasible, implement automated, machine-to-machine data transfer to the NWSS DCIPHER portal to facilitate streamlined reporting.

36.c - Implementation Plan

Explore opportunity, feasibility of automating machine-to-machine data transfer from testing laboratory LIMS to NWSS DCIPHER or from IDPH data systems directly to NWSS DCIPHER.

Milestone	Achieve by date	Person Responsible
1. Coordinate with DPI, data management software to explore feasibility, establish workflow for LIMS-to-DCIPHER transfer.	<input type="text" value="October 2022"/>	<input type="text" value="Designated wastewater Program"/>
2. Explore options for IDPH systems-to-DCIPHER transfer.	<input type="text" value="December 2022"/>	<input type="text" value="Designated wastewater Program"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text" value="F.2_O1 IGA with UoI - Work Order #15000024I"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text" value="F.2_P3 TBD - F.2 - Program Manager I"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text" value="F.2_P4 TBD - F.2 - Program Coordinator"/>	Line Item #6: <input type="text"/>

Strategy 37) Tier 2 NWSS: Other optional strategy

a) Optional activity.

37.a - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
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To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

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Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

b) Optional Activity.

37.b - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input type="text"/>	Line Item #4: <input type="text"/>
Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

c) Optional activity.

37.c - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

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Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

Strategy 38) Tier 2 NWSS: Other emerging issues strategy

a) Develop and implement a plan for prioritizing wastewater samples for prospective sequencing targeting SARS-CoV-2 and other pathogen targets

38.a - Implementation Plan

Explore and test the implementation of wastewater testing and reporting for other pathogens and public health concerns, including influenza, antimicrobial resistant bacteria, Ebola, Polio, and other targets.

Milestone	Achieve by date	Person Responsible
1. Manage, support, and enhance IWSS sequencing and reporting efforts through System partner Argonne National Laboratory.	October 2022	Chief of Testing, Designated wa
2. Instruct and oversee implementation of influenza assay at IWSS-dedicated laboratory operated by DPI.	December 2022	Chief of Testing, Designated wa
3. Plan for integration of sequencing and other pathogen/target wastewater testing data into public health event response.	June 2023	Chief of Testing, Designated wa
4. [Empty]	[Empty]	[Empty]
5. [Empty]	[Empty]	[Empty]

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.2_O1 IGA with UoI - Work Order #15000024I	Line Item #4: F.2_T1 Public Health and Water Conference & Wastewater I
Line Item #2: F.2_P3 TBD - F.2 - Program Manager I	Line Item #5: [Empty]
Line Item #3: F.2_P4 TBD - F.2 - Program Coordinator	Line Item #6: [Empty]

b) Develop or maintain the ability to link wastewater laboratory sequencing data with sewershed-level clinical sequence surveillance data, and other sources as needed.

38.b - Implementation Plan

Optimize machine-to-machine automated and/or manual LIMS linking of wastewater laboratory sequencing data with sample and sewershed-level clinical sequence surveillance data.

Milestone	Achieve by date	Person Responsible
1. Upload wastewater sequencing data to CDC databases, potentially including DCIPHER, as required and as requested.	September 2022	Designated wastewater Program
2. Ensure manual, then transition to automated, linkage of wastewater sequencing data to sample and dPCR test results.	December 2022	Chief of Testing, Designated was
3. Link wastewater and clinical sequence surveillance data.	January 2023	Data Discharge Manager, data t
4. <div style="border: 1px solid black; height: 60px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>
5. <div style="border: 1px solid black; height: 60px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.2_P3 TBD - F.2 - Program Manager I	Line Item #4: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
Line Item #2: F.2_P4 TBD - F.2 - Program Coordinator	Line Item #5: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
Line Item #3: F.2_O1 IGA with UoI - Work Order #15000024I	Line Item #6: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>

c) Other Emerging Issues Activity.

38.c - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
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To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

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Line Item #2: <input type="text"/>	Line Item #5: <input type="text"/>
Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

Strategy 39) Tier 2 OBNE: Enhance workforce capacity

a) Work with a CoE.

- i) Identify and implement projects or trainings that engage an Integrated Food Safety CoE; this could be a hands-on project or application of existing CoE-developed tools. A new/distinct project does not need to be developed each year. Funding cannot and will not be provided for any research-associated activities.**

39.a - Implementation Plan

The CoEs have various resources available and links to those resources are included on the IDPH web portal pages for local health department use. IDPH will explore the resources available for waterborne outbreaks and case investigations. The web portal pages will be updated to expand the resources currently available for waterborne investigations. In March 2022, IDPH met with Minnesota CoE staff for a demonstration on how they utilize Tableau for enteric diseases. During the 2022-2023 grant year, IDPH will work to train staff and work to establish utilizing Tableau in Illinois.

Milestone	Achieve by date	Person Responsible
1. Review and identify CoE resources regarding waterborne outbreaks and case investigations.	December 2022	Enteric Disease Epidemiologist
2. Update the IDPH web portal to include resources to guide local health departments on responding to waterborne disease outbreaks.	February 2023	Enteric Disease Epidemiologist
3. Train staff on Tableau	March 2023	Lori Saathoff-Huber, Dawn Nims
4. Meet with Minnesota CoE to obtain details on the structures and processes to visualize enteric data utilizing Tableau	April 2023	Lori Saathoff-Huber, Dawn Nims
5. IDPH staff will meet internally to discuss next steps to implement Tableau in Illinois for the visualization of enteric data.	May 2023	Lori Saathoff-Huber, Dawn Nims

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.1_P4 IL_P_061 TBD - F.1 - Enteric Disease Epidemiologis	Line Item #4:
Line Item #2: F.1_P1 IL_P_030 Altman, Shana	Line Item #5:
Line Item #3: 	Line Item #6:

Strategy 40) Tier 2 OBNE: Enhance investigation and outbreak response

a) **Improve interviewing timeliness and completeness: this includes attempting to interview all cases of Listeria and STEC infection, all cases with WGS/NARMS testing results, and as many Salmonella cases as possible, in addition to those associated with multistate and cluster investigations.**

40.a - Implementation Plan

LHDs interview cases of Salmonella, STEC, Listeria, Campylobacter and Shigella and enter demographics, signs and symptoms, health care, laboratory and risk factor information into I-NEDSS. Cluster codes are entered into INEDSS case records for IL cases as well as the date of cluster specific questionnaire requests. A daily report is reviewed that includes all cluster associated cases as well as any with pending questionnaires. The Student Epidemiology Team is available to assist LHDs in interviewing routine cases or for cases included in a cluster/outbreak. When a cluster is identified, the LHD is notified and requested to complete interviews within 48 hours. If the LHD is unable to complete the interview for cluster cases within 48 hours, the case is assigned to the student team. A report is utilized to identify routine cases of Salmonella, STEC, Campylobacter, Shigella, and Vibriosis that haven't been interviewed within three days so that they can be assigned to the student team to improve interview timeliness. A REDCap Interview Assignment and Tracking form is used to assign and monitor completion of interviews. The Foodborne Disease Specialists will continue to review all SSL(SC) cases to identify missing information and common exposures and analyze trends. The Foodborne and Enteric Disease Program Manager monitors for new Listeria cases daily. Upon identification of a new case of Listeria, the Program Manager sends an email to the local health department with the Listeria Initiative Form and expected next steps. The date of the request is entered into INEDSS. A daily report is received and reviewed to identify Listeria cases with pending interviews. If a completed Listeria Initiative form is not received within one week, the Program Manager, will reach back out to the LHD ask for an update on the case and questionnaire and offer guidance as needed.

Milestone	Achieve by date	Person Responsible
1. Recruit, hire, and train a new UIC student to assist with case interviews.	April 2023	Julie Dow, Foodborne Disease S
2. Update the Assignment and Tracking system in REDCap to assign routine and cluster cases to the student team to interview and to monitor completion of interviews.	December 2022	Foodborne Disease Specialist II
3. SSL(SC) cases reviewed for data completeness and timeliness and followed up on for additional information. Completeness measured by OBNE metrics	April 2023	Foodborne Disease Specialist II
4. Review daily report to identify new cases of Listeria, reach out to LHD requesting interview with the Listeria Initiative Form; monitor Listeria track to ensure all cases have an attempted interview and complete the Listeria Initiative Form	June 2023	Shana Altman
5.		

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.1_P5 IL_P_063 TBD - F.1 - Foodborne Disease Specialist	Line Item #4: F.1_P4 IL_P_061 TBD - F.1 - Enteric Disease Epidemiologis
Line Item #2: F.1_P6 NEW TBD - F.1 - GPSI Intern #1	Line Item #5: F.1_P1 IL_P_030 Altman, Shana
Line Item #3: F.1_P7 NEW TBD - F.1 - GPSI Intern #2	Line Item #6: F.1_P2 IL_P_044 Dow, Julie

b) Report program-specific metrics to CDC.

i) Working with CDC, develop/modify metrics, and report via collaboratively determined mechanisms and timeliness. Current metrics available at:

<https://www.cdc.gov/foodsafety/outbreaknetenhanced/metrics.html>

40.b - Implementation Plan

IDPH reports OutbreakNet Enhanced performance metrics yearly to CDC to document the burden, timeliness, and completeness of enteric disease surveillance and provides input to the OutbreakNet Enhanced program about metric reporting. IDPH epidemiology, foodborne and laboratory programs coordinate to provide metric data through developed reports and processes. In order to identify potential areas of improvement in case, cluster and outbreak surveillance, OBNE metrics in those areas will be ran in early September so potential adjustments could be made. In order to ensure complete and accurate data, 2022 data will be pulled in early February 2023 and data cleaning will be addressed prior to the final data submission in late March 2023.

Milestone	Achieve by date	Person Responsible
1. Coordinate with laboratory staff to run a draft of the 2022 OutbreakNet Enhanced metric data reports to identify potential data or report issues.	February 2023	Enteric Disease Epidemiologist, E
2. Provide IDPH Foodborne Disease program QA reports for data cleaning prior to data finalization	February 2023	Enteric Disease Epidemiologist, S
3. Finalize 2021 OutbreakNet Enhanced metrics and submit to CDC	March 2023	Enteric Disease Epidemiologist, S
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	<input type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.1_P4 IL_P_061 TBD - F.1 - Enteric Disease Epidemiologis	Line Item #4: F.1_P3 IL_P_062 Cooley, Matthew
Line Item #2: F.1_P1 IL_P_030 Altman, Shana	Line Item #5: <input type="text"/>
Line Item #3: F.1_P2 IL_P_044 Dow, Julie	Line Item #6: <input type="text"/>

Strategy 41) Tier 2 OBNE: Improve surveillance and reporting

a) Assess feasibility of implementing NORSDirect and NEARS; if you have already determined feasibility, please describe either the plan for implementation or identified barriers (if determined not to be feasible.)

i) In the first year, explore completion of the NEARS free e-Learning on Environmental Assessment of Foodborne Illness Outbreaks course (<https://www.cdc.gov/nceh/ehs/elearn/eats/index.html>)

41.a - Implementation Plan

All outbreaks are entered into the IDPH Outbreak Reporting System (ORS) by LHDs or IDPH staff, which is then used to transmit all requested outbreak data to NORS via NORSDirect. Foodborne staff will continue to review each outbreak for completeness and correctness using NORS guidance and finalize in NORS to ensure data quality. Final outbreak reports will continue to be tracked to identify outbreaks open greater than 30 days after completion and reminders will be sent to LHDs. Updates will be made to ORS and the NORSDirect transmission process as needed to improve data transmission to NORS. IDPH Foodborne program and Food, Dairies, and Devices staff have completed the NEARS training course. A local health department will be identified to complete the NEARS training course and explore the feasibility of participation in NEARS. IDPH will request feedback from Chicago Department of Public Health with their experience NEARS. A meeting will be held between the Chicago DPH, IDPH and the LHD that completed the training to discuss implementation of NEARS.

Milestone	Achieve by date	Person Responsible
1. All outbreaks will be entered into the IDPH Outbreak Reporting System, uploaded to NORS via NORSDirect, and reviewed and finalized	June 2023	Shana Altman, Enteric Disease Epi
2. Follow-up with local health departments regarding final outbreak reports that aren't completed within 30 days	June 2023	Shana Altman, Enteric Disease Epi
3. Update the IDPH Outbreak Reporting System or NORSDirect transmission processes as needed and to align with the updated NORS form	June 2023	Shana Altman, Enteric Disease Epi
4. Identify a local health department to complete the NEARS training course	February 2023	Enteric Disease Epidemiologist
5. Meet with Chicago DPH, newly identified LHD and IDPH, to discuss and explore the feasibility of participating in NEARS.	March 2023	Enteric Disease Epidemiologist

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: F.1_P4 IL_P_061 TBD - F.1 - Enteric Disease Epidemiologist	Line Item #4: F.1_P3 IL_P_062 Cooley, Matthew
Line Item #2: F.1_P1 IL_P_030 Altman, Shana	Line Item #5:
Line Item #3: F.1_P2 IL_P_044 Dow, Julie	Line Item #6:

Strategy 42) Tier 2 PulseNet Area Lab: Enhance laboratory testing for response

a) Enhanced outbreak investigation response and reporting.

- i) Provide recommendations and guidance to laboratories within the appropriate region on issues related to laboratory testing or programmatic changes (i.e., WGS and non-culture-based methods).
- ii) Serve as a resource for surge capacity testing and reference capabilities in response to large foodborne outbreaks or potential threats of bioterrorism that might occur locally or nationally.

42.a - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <div style="border: 1px solid black; height: 80px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>
2. <div style="border: 1px solid black; height: 80px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>
3. <div style="border: 1px solid black; height: 80px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>
4. <div style="border: 1px solid black; height: 80px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>
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To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

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Line Item #2: <div style="border: 1px solid black; height: 30px;"></div>	Line Item #5: <div style="border: 1px solid black; height: 30px;"></div>
Line Item #3: <div style="border: 1px solid black; height: 30px;"></div>	Line Item #6: <div style="border: 1px solid black; height: 30px;"></div>

b) Sustain and enhance laboratory diagnostic/subtyping capacity.

i) Actively participate in evaluation and/or validation of methods that are newly implemented, testing of new software modules and scripts, adopt improvements to laboratory, analysis, communications processes in a timely fashion.

42.b - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input data-bbox="123 149 594 296" type="text"/>	<input data-bbox="615 191 813 228" type="text"/>	<input data-bbox="951 191 1260 228" type="text"/>
2. <input data-bbox="123 336 594 483" type="text"/>	<input data-bbox="615 378 813 415" type="text"/>	<input data-bbox="951 378 1260 415" type="text"/>
3. <input data-bbox="123 522 594 669" type="text"/>	<input data-bbox="615 564 813 602" type="text"/>	<input data-bbox="951 564 1260 602" type="text"/>
4. <input data-bbox="123 709 594 856" type="text"/>	<input data-bbox="615 751 813 789" type="text"/>	<input data-bbox="951 751 1260 789" type="text"/>
5. <input data-bbox="123 896 594 1043" type="text"/>	<input data-bbox="615 938 813 976" type="text"/>	<input data-bbox="951 938 1260 976" type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input data-bbox="123 1161 662 1199" type="text"/>	Line Item #4: <input data-bbox="712 1161 1247 1199" type="text"/>
Line Item #2: <input data-bbox="123 1234 662 1272" type="text"/>	Line Item #5: <input data-bbox="712 1234 1247 1272" type="text"/>
Line Item #3: <input data-bbox="123 1308 662 1346" type="text"/>	Line Item #6: <input data-bbox="712 1308 1247 1346" type="text"/>

Strategy 43) Tier 2 PulseNet Area Lab: Enhance laboratory testing for surveillance and reporting

a) Improve surveillance to drive public health action by providing laboratory bench training, technical guidance, and scientific expertise to PulseNet participating laboratories within their designated area.

43.a - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input data-bbox="123 149 594 294" type="text"/>	<input data-bbox="610 191 813 226" type="text"/>	<input data-bbox="946 191 1255 226" type="text"/>
2. <input data-bbox="123 340 594 485" type="text"/>	<input data-bbox="610 382 813 417" type="text"/>	<input data-bbox="946 382 1255 417" type="text"/>
3. <input data-bbox="123 531 594 676" type="text"/>	<input data-bbox="610 573 813 609" type="text"/>	<input data-bbox="946 573 1255 609" type="text"/>
4. <input data-bbox="123 722 594 867" type="text"/>	<input data-bbox="610 764 813 800" type="text"/>	<input data-bbox="946 764 1255 800" type="text"/>
5. <input data-bbox="123 913 594 1058" type="text"/>	<input data-bbox="610 955 813 991" type="text"/>	<input data-bbox="946 955 1255 991" type="text"/>

To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

Line Item #1: <input data-bbox="123 1171 662 1199" type="text"/>	Line Item #4: <input data-bbox="708 1171 1247 1199" type="text"/>
Line Item #2: <input data-bbox="123 1241 662 1268" type="text"/>	Line Item #5: <input data-bbox="708 1241 1247 1268" type="text"/>
Line Item #3: <input data-bbox="123 1310 662 1337" type="text"/>	Line Item #6: <input data-bbox="708 1310 1247 1337" type="text"/>

Strategy 44) Tier 2 PulseNet Area Lab: Enhance coordination between epi-lab-HIS

a) Improve laboratory coordination and information flow between state public health laboratories.

- i) Coordinate and host PulseNet regional and training meetings.
- ii) Serve as representative of laboratories within their areas/region on the PulseNet Steering Committee and the PulseNet/OutbreakNet Regional Meeting and InFORM planning committees.

44.a - Implementation Plan

Milestone	Achieve by date	Person Responsible
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>
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To help with funding determinations, if there are specific budget requests that pertain to successful completion of this activity, please list below.

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Line Item #3: <input type="text"/>	Line Item #6: <input type="text"/>

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