Andre Baker
Project Manager

December 10, 2020

Mr. Robert Kondreck
Federal On-Scene Coordinator
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604-3507

Subject: **Removal Site Evaluation Report (Revision 1)**
Nelson Knitting Removal Assessment Site
Rockford, Winnebago County, Illinois
EPA Contract No. 68HE0519D0005
Task Order No.: 68HE0520F0032
Task Order Line Item No.: 0001BI104
Document Tracking No. 0497a

Dear Mr. Kondreck:

Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting the Removal Site Evaluation Report for the Nelson Knitting site for your review and comment. This report summarizes the activities that were conducted at the site on October 8, 2020. If you have any questions regarding this report, please call me at (312) 201-7760.

Sincerely,

Andre Baker
Project Manager

Enclosure

cc: Chris Burns, Tetra Tech R5 START Program Manager
TO-TOLIN File

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REMOVAL SITE EVALUATION REPORT
NELSON KNITTING SITE
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS
REVISION 1

Prepared for

U.S. Environmental Protection Agency
Emergency Response Branch
Region 5
77 West Jackson Blvd. (SE-5J)
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Submitted by

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1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked the Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) with conducting a removal site evaluation (RSE) at the Nelson Knitting Site (the site) under Task Order (TO) 68HE0520F0032 Task Order Line Item Number (TOLIN) 0001BI104 for EPA Contract number 68HE0519D0005. The overall goals of the RSE were to determine the risks posed to human health and the environment through potential exposure to asbestos-containing material (ACM) and hazardous waste within a vacant manufacturing building formerly owned and operated by the Nelson Knitting Company and to determine if a removal action by EPA was warranted.

To accomplish these goals, Tetra Tech and the EPA performed the following activities during the RSE:

- Collected suspected bulk ACM to assess potential exposure to workers and trespassers due to material deterioration;
- Collected ambient air samples to assess the potential for asbestos fibers to release into the communities surrounding the site;
- Sampled the liquid and ash material located on-site to assess the potential for a release through the building floor drains and to assess the potential of exposure to workers and trespassers;
- Sampled paint chips to assess the potential impact of deteriorating building debris as well as exposure to workers and trespassers to potentially lead and polychlorinated biphenyl (PCB) containing material;
- Conducted real-time screening for mercury vapors and gamma radiation to assess the potential exposure of workers and trespassers to these contaminants inside the building and to evaluate if trespassers may have spread this contamination into the surrounding community; and
- Identified other potential hazards for removal, such as a room full of fluorescent light bulbs and miscellaneous intact drums (15-gallons in size, each) filled with liquid labeled Feedwater Oxygen Scavenger and Boiler Water Treatment.

This RSE report describes the site and site background in Section 2.0, summarizes the RSE activities and results in Section 3.0, summarizes key RSE findings in Section 4.0, and includes references in Section 5.0. Figures 1 through 4B are provided in Appendix A; a scanned electronic copy of field notes recorded by START is provided in Appendix B; photographic documentation of site hazards and START sampling activities are provided in Appendix C, and sampling and analytical summary tables are provided in Appendix D. Laboratory reports are provided in Attachment 1.

2.0 SITE BACKGROUND

2.1 SITE LOCATION

The site is located at 909 South Main Street, in Rockford, Illinois. The approximate geographic coordinates of the facility are 42.263771 degrees north and 89.101911 degrees west, as measured from the center of the property. The site is located in a mixed-use area of Rockford, Illinois, and is surrounded by commercial and vacant properties (Appendix A, Figures 1 and 2).

2.2 SITE DESCRIPTION, HISTORY, AND PREVIOUS INVESTIGATIONS

The site, which is approximately two acres in size, contains a three-story manufacturing building that was formerly owned by the Nelson Knitting Company and operated as a sock knitting mill until approximately 1990. Since 1990, the building has been vacant and is deteriorating.

During a Phase I Environmental Site Assessment (ESA) update prepared by Fehr-Graham & Associates (FGA) in 2009 for the City of Rockford, suspected ACM was observed on piping, steam pipe elbows, and boilers within the building. Suspected lead-based paint was present throughout the building as well. Other materials were also observed in the building, including containers of chemicals, mercury-containing fluorescent lamps, and suspected PCB-containing fluorescent lamp ballasts and electrical capacitors. The FGA Phase I ESA also included Sanborn maps from 1950 and 1951 indicated that the building was constructed of fireproof materials and was expected to contain sheetrock and poured asbestos (FGA 2009).

On June 25, 2020, the City of Rockford determined that the entrance to the site was compromised. An inspection of the building found that the boilers and other steel products had been removed. Suspected ACM materials from the boilers and pipes were found discarded in piles on the floor, as well as in garbage bags and fiber drums. The roof was also observed to be failing in multiple locations.

On June 26, 2020, the City of Rockford condemned and secured the property (City of Rockford 2020) and on June 29, 2020, contacted the EPA Emergency Response Branch to request assistance with the site.

On September 18, 2020, EPA issued TOLIN 0001BI104 to Tetra Tech to perform an RSE at the site.

3.0 REMOVAL SITE EVALUATION ACTIVITIES

START conducted the RSE at the Nelson Knitting site on October 8, 2020. START personnel were assisted on-site by EPA On-Scene Coordinator (OSC), Paul Reusch. Before field activities were initiated at the site, a Sampling and Analysis Plan (SAP) and site-specific Health and Safety Plan (HASP) were developed

(Tetra Tech 2020a and 2020b). All RSE activities were conducted in accordance with the EPA-approved SAP and HASP. START personnel recorded site activities through written and photographic documentation in the field logbook (Appendix B) and the photolog (Appendix C).

Prior to beginning sample collection tasks, a preliminary visual assessment of the site was performed. Based on observations the site was not secure at the time of the assessment. There was evidence of previous human and animal inhabitants among the site buildings. This includes clothing items and refuse. In addition, there was visual evidence of a fire most likely set for human purposes.

In addition, potential environmental hazards that were present included a room full of fluorescent light bulbs and miscellaneous intact drums (15-gallons) filled with liquid labeled Feedwater Oxygen Scavenger and Boiler Water Treatment. These items will most likely require special attention for disposal purposes.

START and EPA personnel screened the site for mercury and gamma radiation. Tetra Tech and EPA also collected multimedia environmental samples, including ambient air samples, waste samples, samples of potential bulk ACM, and samples of potential lead-based paint. Sampling and analytical summary tables are provided in Appendix D. These sampling and screening activities are summarized below (see Appendix A, Figures 3, 4A, and 4B for approximate sample locations):

- Collected three ambient air samples for a minimum of 120 minutes (high flow [approximately 10 liters per minute]) at locations outside the site-building. These samples were delivered by Tetra Tech to the laboratory for asbestos analysis at Eurofins Test America in University Park, Illinois.
- Collected 8 ambient air samples (high-flow [approximately 10 liters per minute] and low-flow [approximately 3 liters per minute]) in high traffic or heavily damaged areas within the site-building. These samples delivered by Tetra Tech to the laboratory for asbestos analysis at Eurofins Test America in University Park, Illinois.
- Screened all areas of the building that appeared to be structurally sound and any areas immediately outside the building where trespassing occurred for mercury vapors using a Lumex RA-915M meter (a real-time mercury vapor analyzer) and for gamma radiation using a Ludlum Model 192 detector.
- Collected seven samples of potential bulk ACM (insulation, pipe wrap, etc.) at four locations that have been disturbed by activity in the building. These samples included one duplicate sample for quality assurance/quality control (QA/QC). These samples were delivered by Tetra Tech to the laboratory for friable asbestos analysis at Eurofins Test America in University Park, Illinois.
- Collected one ash sample from the boiler room. This sample was delivered by Tetra Tech to the laboratory for analysis of PCBs, flammability/combustibility, pH, and toxicity characteristic leaching procedure (TCLP) metals at Eurofins Test America in University Park, Illinois.
- Collected one wastewater sample from a floor sump, including one duplicate sample for QA/QC analysis. This sample was delivered by Tetra Tech to the laboratory for analysis of polychlorinated biphenyls (PCB), pH, flammability/combustibility, semi-volatile organic compounds (SVOC), volatile organic compounds (VOC), and total metals at Eurofins Test America in University Park,

Illinois.

- Collected one ballast sample from a light. This sample was delivered by Tetra Tech to the laboratory for PCB analysis at Eurofins Test America in University Park, Illinois.
- Collected two paint chip samples from locations where the paint was peeling. These samples were delivered by Tetra Tech to the laboratory for lead and PCB analysis at Eurofins Test America in University Park, Illinois.
- Photographed the sampling activities, recorded sampling locations, and recorded pertinent notes in the site logbook.

Section 3.0 is divided into two subsections. Section 3.1 discusses screening activities, and Section 3.2 discusses sampling activities.

3.1 MERCURY AND RADIATION SCREENING ACTIVITIES

START performed real-time screening for mercury using a Lumex RA-915M and gamma radiation using a Ludlum Model 192 detector. The screening results are provided in Appendix D, Table D-1. Tetra Tech screened each room by first collecting measurements in the breathing zone. When the measurements were below the levels identified in the HASP, Tetra Tech proceeded with screening the rest of each room. The Lumex and Ludlum were moved across surfaces, in the breathing zone, or in areas suspected to contain contamination. No samples were collected for laboratory analysis as part of the screening.

Mercury vapors were screened in each structurally sound room and at each potential trespasser ingress and egress location. The Lumex mercury vapor analyzer can analyze mercury vapor at concentrations as low as 2 nanograms per cubic meter (ng/m^3). START noted a background reading of mercury at 40 nanograms. During the screening, START noted a peak reading of 1,697 ng/m^3 (or 1.697 ug/m^3) in the boiler room and an average of 600 ng/m^3 (or 0.6 ug/m^3) near the eyewash station at the bottom of the stairs.

Based on information in the USEPA National Elemental Mercury Response Guidebook (March 2019), the highest recorded reading for mercury at the site was only slightly higher than the "Acceptable level for normal occupancy for the most sensitive persons of 1 ug/m^3. All the readings were below the "Normal Occupancy for commercial settings…" of <3.0 ug/m^3. Refer to Table D-1 for a summary of the results.

Prior to screening the site structures for radiation, the Ludlum Model 192 detector was used to establish a background level. The Ludlum is a highly sensitive to gamma radiation with a detection range is 0 to 5000 microrems per hour (µR/hr) and a count rate of 650 cpm/µR/hr. The detector was used away from potential radiation interference to establish a background for comparisons to

on site readings. During the background assessment the detector recorded readings between 3 and 5 cpm uR/hr.

Radiation screening was then performed in each structurally sound room of the site.

A summary of the radiation screening assessment is provided on Table D-1. In general, all readings were within the previous established on-site background levels (5 cpm uR/hr) with the exception of one sample. At this location refractory bricks or firebrick located within the boiler were screened and exhibited a gamma radiation level of 10 uR/hr. Although above background levels, these readings are typical among refractory brick that are made up of sandstone, natural stone, gypsum, and granite that contains naturally-occurring radioactive elements like radium, uranium, and thorium. According to the Center for Disease Control and Prevention (CDC), these naturally-occurring elements can break down or decay resulting in elevated radiation readings. However, according the CDC, "the levels of radioactive materials found in building materials are very low. These low levels of radioactive material, and the radiation emitted by them, are unlikely to harm human health". Furthermore, the Specialist of Radiation Protection indicated that typical external background radiation (U.S. Average) is between 6 and 10 cpm uR/hr. Based on these factors further investigation of the firebricks was not undertaken.

3.2 SAMPLING ACTIVITIES

Tetra Tech collected bulk and ambient air samples for asbestos, and paint chips, wastewater, ash, and light ballast samples. The sample locations, descriptions, sample identifications, and laboratory analytical methods are provided in Appendix D, Table D-2, and Table D-3.

3.2.1 SUMPWASTEWATER, ASH, BALLAST, PAINT CHIP, AND BULK ASBESTOS SAMPLING

EPA and START collected one sump (wastewater) sample, one ash sample, one light ballast sample, two paint chip samples, and seven bulk asbestos samples for off-site laboratory analysis. Sample locations and materials (Appendix D) were selected based on the likelihood that trespassers or workers would come in contact with the materials or if the materials could pose an immediate threat to the environment. For example, asbestos samples were collected from loose or fallen pipe wrap; paint samples were collected from areas where peeling paint had fallen to the floor; a sump sample and ash sample were collected in the boiler room where low levels of mercury and radiation were detected, and a light ballast sample was taken

from a leaking light tube. Laboratory analyses selected for each sample were based on the likelihood of the sample containing detectable chemical concentrations. Therefore, not all samples were analyzed for the same chemical constituents.

The liquid wastes from the sump were sampled in accordance with Tetra Tech Standard Operating Procedure (SOP) number (No.) 008-3, "Containerized Liquid, Sludge, and Slurry Sampling" (Tetra Tech 2020c) The water from the sump was analyzed for PCBs, pH, SVOCs, VOCs, flammability/combustibility, and total metals. Ash samples were collected for PCB and Metals analysis.

The two paint chip samples were collected near the openings of the building where the paint was peeling off the walls. The paint was collected by pulling on one end to create a chip. One paint chip sample consisted of enough paint chips to fill a gallon-sized plastic bag. The color and location of the collected paint chip samples were recorded in the field logbook and on the site figures. The paint chip samples were placed inside a resealable plastic bag and were submitted for lead and PCB analysis at Eurofins in University Park, Illinois.

Seven bulk asbestos samples were collected from four areas that had been disturbed by recent activity in the building. The asbestos samples were collected in Level C personal protective equipment, including full-face respirators, Tyvek suits, and P100 filter cartridges. Tetra Tech wet samples with amended water before placing the samples into labeled, resealable plastic bags. Tetra Tech identified specific sampling locations during the field activities, and the samples were collected from areas with bulk asbestos piles. Asbestos samples were shipped offsite for analysis of asbestos fibers by EPA Test Method 600/R-93/116. Details on the location and description of each asbestos sample are provided in the logbook (Appendix C). Photographs of selected sample locations are provided in Appendix C.

3.2.2 ASBESTOS IN AIR SAMPLING

EPA and START collected a total of eleven ambient air samples for asbestos analysis the following locations, as noted in Appendix D, Table D-4:

- A total of three ambient air samples were collected outside the building at two locations. Two samples were taken from the west entrance (one high-flow and one low-flow). One high-flow sample was taken from the east access point. These sample locations were chosen due to evidence of potential trespassing into the building.

- A total of eight ambient air samples were collected inside the building. Four low-flow and four high-flow samples were collected near the main floor, the boiler room, the basement, and the main floor on the south end of the building.

Ambient air samples were collected at two locations outside of the building and at four locations inside the building. Total air sampling time was a minimum of 120 minutes. Tetra Tech utilized Gillian AirCon 2 air pumps to collect approximately 1,200 liters of air at an average flow rate of 10 liters per minute (L/min) for high-volume samples. Tetra Tech utilized GilAir 5 air pumps to collect a minimum of approximately 360 liters of air at an average flow rate of 3 L/min for low-volume samples.

Each outdoor location had a high-flow rate air pump, while each indoor location had both a high-flow rate air pump and a low-flow rate air pump. Each pump had an attached 25-millimeter (mm)-diameter, 0.8-micrometer (µm) mixed cellulose ester membrane filter cassette mounted on a 4 to 5 foot tall tripod stand. The inlet caps of all filter cassettes were removed (such that they were open-faced) during sampling, and the cassettes were positioned downward. The flow rate of the air sampling train created from this assembly was measured before and after samples were collected using a Bios DryCal primary flow meter.

The detection limit for these samples was set at 0.0012 fibers per cubic centimeter (f/cc) with a sensitivity of 0.0004 asbestos structures per cubic centimeter (s/cc). Sampling was conducted in accordance with EPA Environmental Response Team (ERT) SOP No. 2015, "Asbestos Air Sampling" (ERT 2020)

Samples were analyzed for asbestos by National Institute for Occupational Safety and Health (NIOSH) Method 7400 through phased contrast microscopy (PCM). Results were compared to a screening level of 0.05 f/cc, which is half the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) for asbestos of 0.1 f/cc.

Quality control samples for asbestos air sampling included a field blank sample and an equipment blank. The field blank sample was opened for a quick duration and then closed. The equipment blank was taken directly from the shipment of laboratory-provided containers and submitted for analysis. Asbestos air samples were packaged and shipped to Eurofins in University Park, Illinois.

Figure 3, provided in Appendix A, indicates the fixed indoor and outdoor ambient air sampling locations.

4.0 ANALYTICAL RESULTS

Summaries of analytical results above the applicable action levels are provided in Sections 3.2.1 through 3.2.6. Asbestos bulk, wastewater from the sump, ash, ballast, and paint chip samples with action level exceedances determined by laboratory analysis are summarized in tables D-4 through D-8 in Appendix D. Laboratory reports for each sample are provided in Attachment 1. All data were validated by Tetra Tech chemists and found to be useable. The data validation reports (DVR) were submitted to EPA as separate deliverables on October 27, 2020, and November 24, 2020.

4.1.1 ASH SAMPLE RESULTS

One sample containing ash collected from the boiler room was analyzed by Eurofins for metals by Method 6010C and PCBs by Method 8082A. START chemists validated laboratory results as indicated in the DVR submitted under document tracking number (DTN) 0523 to the EPA on November 24, 2020. The sample results are provided in Appendix D, Table D-5.

The sample (NS-WASTE1-100820) contained a lead concentration of 690 milligrams per kilograms (mg/kg), which is above the EPA Removal Management Level (RML) for residential soil of 400 mg/kg. No other contaminants were detected above applicable action levels. PCBs were detected but under the applicable action level of 50 mg/kg.

4.1.2 SUMP SAMPLE RESULTS

One liquid sample collected from the sump in the boiler room was analyzed by Eurofins for VOCs by Method 8260B, SVOCs by Method 8270D, PCBs by Method 8082A, metals by Method 6020A, mercury by Method 7470A, ignitability by Method 1010A, and pH by Method 9040C. START chemists validated laboratory results as indicated in the DVR submitted under DTN 0523 to the EPA on November 24, 2020. The sump sample (NS-SUMP-100820) contained a lead concentration of 18.0 ug/L, which exceeds the EPA RML for Residential tap water of 15 ug/L. The sump water sample results are provided in Appendix D, Table D-6.

4.1.3 LIGHT BALLAST SAMPLE RESULTS

One sample was analyzed by Eurofins for PCBs by Method 8082A. The sample (NS-Ballast-100820) contained a PCB-1016 concentration of 1,000 mg/kg, which exceeds the Toxic Substances Control Act action level of 50 mg/kg. START chemists validated laboratory results as indicated in the DVR submitted to the EPA on November 24, 2020.

4.1.4 PAINT SAMPLE RESULTS

Two paint chip samples were analyzed by Eurofins for lead by method 6010C and PCBs by Method 8082A. One paint chip sample (NS-Paint-2-100820) contained a lead concentration of 26,000 mg/kg, which exceeds the 5,000 mg/kg action level for lead-based paint hazards. NS-Paint-1-100820 contained 170 mg/kg of lead. PCBs were detected in concentrations under the action level in both samples. Lead concentrations were compared to lead-based paint hazard as defined by 40 Code of Federal Regulation (CFR) Part 745, and PCB concentrations were compared to PCB bulk product waste action level as defined by 40 CFR Part 761. START chemists validated laboratory results as indicated in the DVR submitted under DTN 0523 to the EPA on November 24, 2020. The paint chip sample results are provided in Appendix D, Table D-7.

4.1.5 ASBESTOS BULK SAMPLE RESULTS

Seven bulk asbestos samples were submitted to Eurofins for asbestos analysis by EPA Method 600/R-93/116 PLM. START chemists validated the laboratory results as indicated in the DVR submitted under DTN 0515 to the EPA on October 27, 2020. Three of the bulk asbestos samples were positive for asbestos and considered "friable," meaning that the material is easily turned into powder/dust by only using hand pressure (NS-Bulk-001-20201008, NS-Bulk-002-20201008, and NS-Bulk-003-20201008).

Among the samples collected for bulk asbestos analysis was the pour cement roof of the building. At the time of sampling the roof condition was very poor with a large majority unreachable or fallen completely. As a result, this created a limitation and a 9-pt sampling effort in accordance with NESHAP was not feasible. However, the sampling that was possible indicated no evidence of asbestos in the roof. This sample data varies from information presented in the FGH Phase I ESA dated July 31, 2008 (pg 256-258). In this document Sanborn Maps from 1950 and 1951 indicated that the building has Fireproof Construction. As a result, the Sanborn states to expect materials associated with fireproof construction such as asbestos poured roofing. The Sanborn Map does not state definitively the presence of an asbestos poured roof, only the expectation of one based on construction practices. The Tetra Tech samples collected suggest that asbestos may not be present, however as stated previously the condition of the roof created sampling limitations.

The bulk asbestos sample results and estimated volumes are provided in Appendix D, Table D-8.

4.1.6 ASBESTOS IN AIR RESULTS

Three outdoor and eight indoor ambient air samples were collected and analyzed by Eurofins for asbestos by NIOSH Method 7400 through PCM. START chemists validated the laboratory results as indicated in the DVR submitted under DTN 0515 to the EPA on October 27, 2020.

Asbestos results provided in Appendix D, Table D-4, are provided in fibers per cubic centimeter (f/cc). PCM provides the concentration of asbestos fibers in the air that meet the binning description of fibers that are greater than 5 µm in length, a width greater than or equal to 0.25 µm, and an aspect ratio greater than or equal to 3, which OSHA deems hazardous to human health. Therefore, the PCM is the OSHA comparable value. Results have been calculated to assess exposure over an 8-hour working period.

Asbestos was detected in the east access point (high-flow) of the outdoor air samples and both high- and low-flow boiler room samples. However, the detections in both the outdoor sample and the indoor samples did not exceed the OSHA PEL of 0.1 f/cc. A comparison to the most conservative clearance level 0.01 f/cc provided by USEPA in 40 CFR Part 763, Subpart E, *Asbestos in Schools Rule*, indicate that only two sample located in the boiler room slightly exceeded the clearance level (NS-AA-005-20201008 0.012 f/cc and NS-AA-010-20201008 0.016 f/cc). Refer to Table D-4.

5.0 SUMMARY

During the RSE conducted on October 8, 2020, EPA and START personnel collected a total of 23 samples, including one sample containing ash, one liquid sample from the sump, two paint samples, seven bulk asbestos samples, one ballast sample, and eleven air samples for off-site laboratory analysis. The following results were found during assessment activities:

- No readings above the background and/or action level for mercury or gamma radiation were detected in the ambient air of the building during the screening events with the exception of gamma radiation from a refractory brick sample. Although above background levels, these readings are typical among refractory brick that are made up of sandstone, natural stone, gypsum, and granite that contains naturally-occurring radioactive elements like radium, uranium, and thorium. According to the CDC, "the levels of radioactive materials found in building materials are very low. These low levels of radioactive material, and the radiation emitted by them, are unlikely to harm human health.The ash sample contained a lead concentration of 690 mg/kg, which is above the EPA RML of 400 mg/kg.
- The sump sample contained a lead concentration of 18 ug/L, which is above the EPA residential RML of 15 ug/L.
- One paint sample (NS-Paint-2-100820) contained lead concentrations above the 40 CFR Part 745 RML of 26,000 mg/kg. PCBs were detected in both samples but were below the RML of 50 mg/kg.
- Three of the seven bulk asbestos samples were friable and contained either chrysotile or amosite asbestos. The asbestos content in these samples ranged from 50 percent to 70 percent. Estimated volumes of asbestos containing material is presented in Table D-8.
- Asbestos samples from the roof did not contain asbestos. However, a 9-point sampling effort in accordance with NESHAP was not feasible due to roof conditions. This sample data varies from

Sanborn Maps from 1950 and 1951 provided in the Fehr-Graham & Associates Phase I ESA. The Maps indicated that the building has Fireproof Construction and as a result, the expected building materials was an asbestos poured roofing. The Sanborn Map does not state definitively the presence of an asbestos poured roof, only the expectation of one based on construction practices. The Tetra Tech sample collected suggests that asbestos may not be present, however condition of the roof created sampling limitations.

- Fibers matching the characteristics were detected in the boiler room and east access point air samples. However, the samples did not exceed the OSHA PEL and only two samples exceeded the conservative USEPA 40 CFR Part 763, Subpart E, of the Asbestos in Schools Rule.

Based on the observations during the site assessment and the analytical results of the samples containing hazardous material above applicable action levels, START recommends removal of the hazardous materials before the building can be considered safe to enter without PPE. This recommendation is based on evidence of trespassing into the building, which contains dry, friable, and severely compromised asbestos-containing material. Asbestos-containing materials in this compromised state do not need significant disturbance to result in concentrations of asbestos fibers in the air throughout the building to be above the OSHA PEL. Along with the asbestos threat, light ballasts throughout the facility containing high levels of PCB's, Paint in the bathroom is considered lead-based paint, and the sump and ash in the boiler room has levels that warrant removal.

3.S REFERENCES

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APPENDIX A

SITE FIGURES

Figure 1 – Site Location

Figure 2- Site Layout

Figure 3 – Asbestos Air Sampling Locations

Figure 4A – Main Floor Site Layout/Sample Locations

Figure 4B – Basement Site Layout/Sample Locations

Reference Map

Legend

Approximate Site Boundary

Source: Modified from USGS, Illinois.
7.5-Minute (1:10,000 Scale) Topographic Map, 2018.
Rockford North Illinois. (1:10,000 Scale) Topographic Map, 2018.

Nelson Knitting Removal Assessment Site
909 South Main Street
Rockford, Winnebago County, Illinois

Figure 1

Site Location Map

TETRA TECH

Prepared For: EPA	Prepared By: Tetra Tech, Inc.

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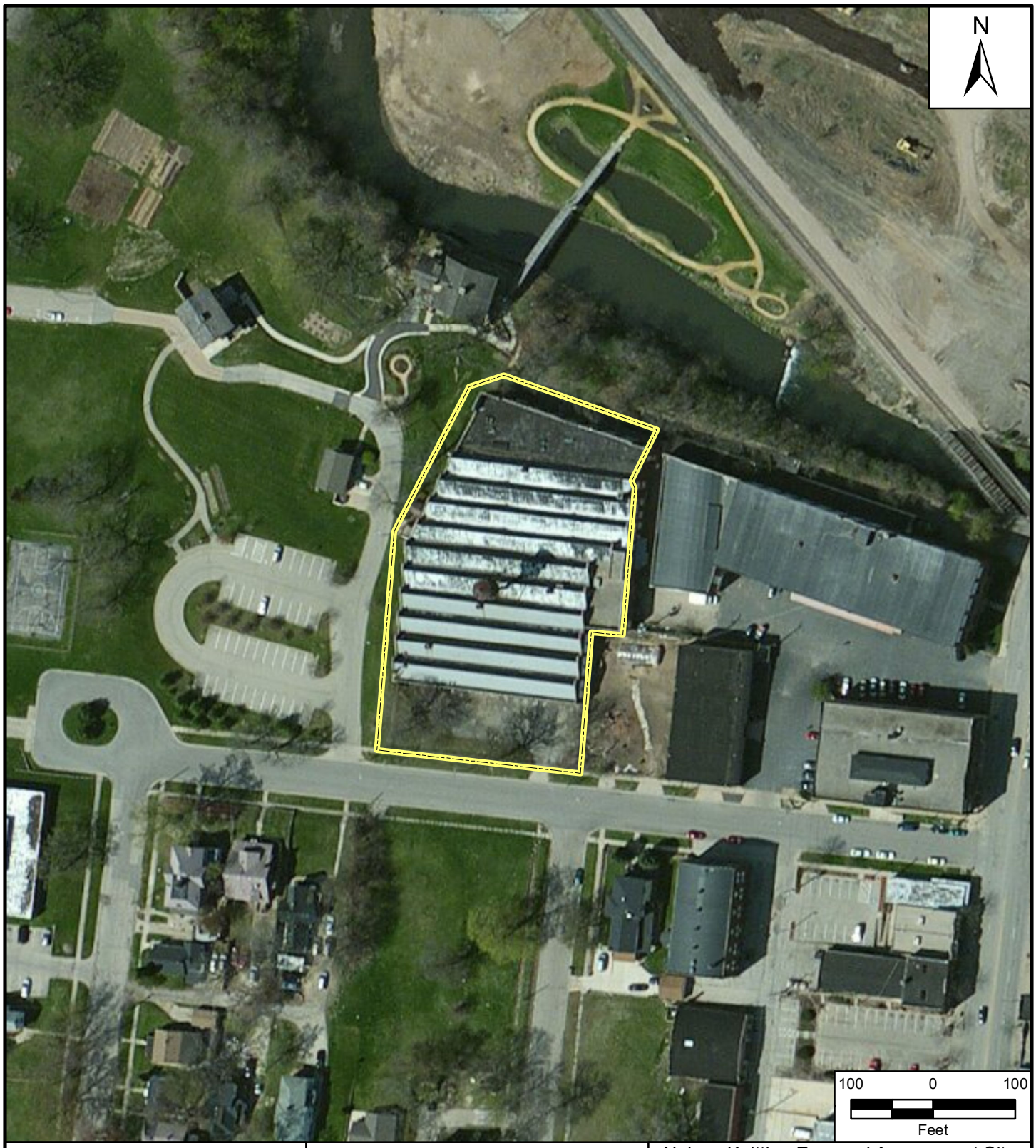

Reference Map

Legend

Approximate Site Boundary

Nelson Knitting Removal Assessment Site
909 South Main Street
Rockford, Winnebago County, Illinois

Figure 2

Site Layout Map

TETRA TECH

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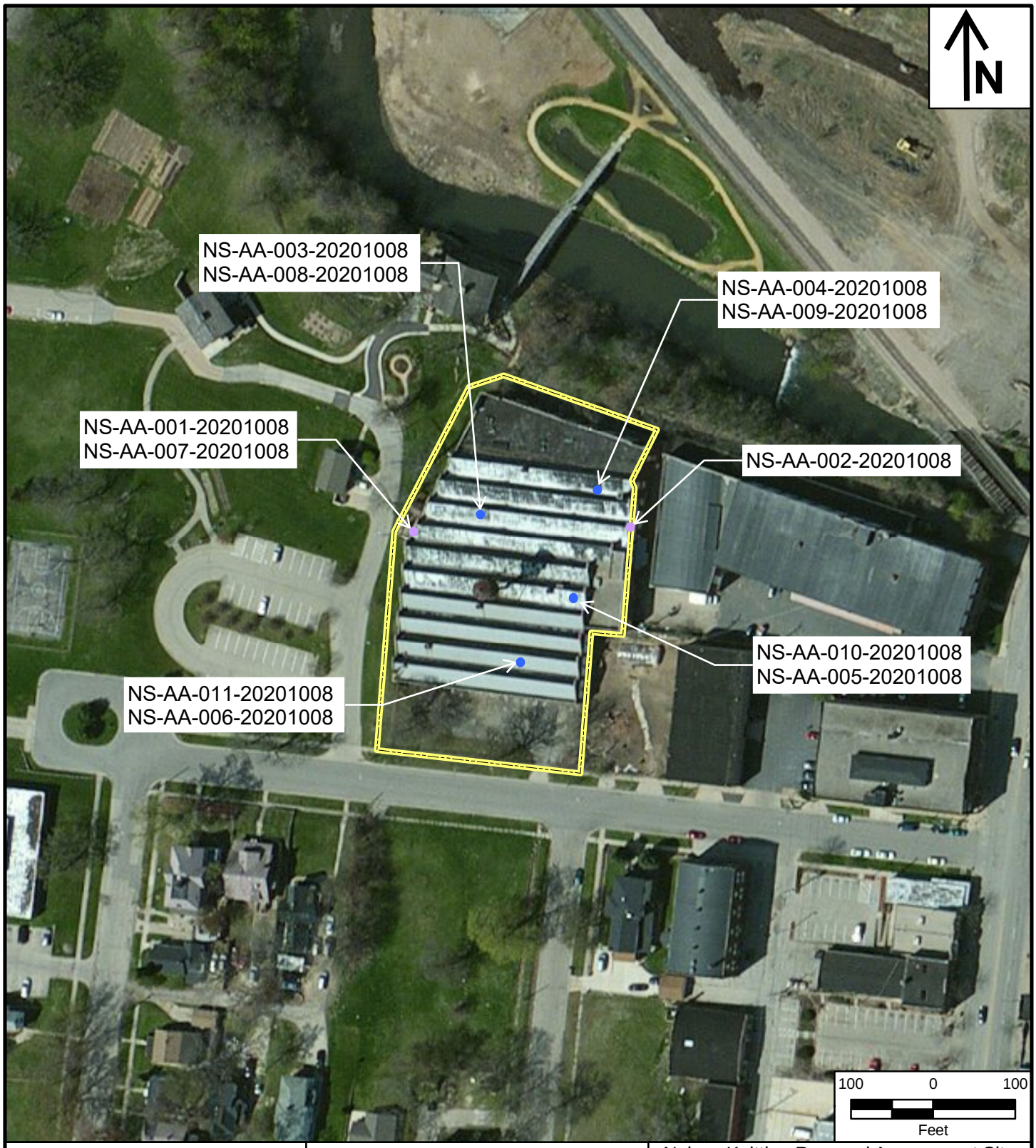


Reference Map

Legend

- Approximate Site Boundary
- Indoor Ambient Air Sample Location
- Outdoor Ambient Air Sample Location

Nelson Knitting Removal Assessment Site
909 South Main Street
Rockford, Winnebago County, Illinois

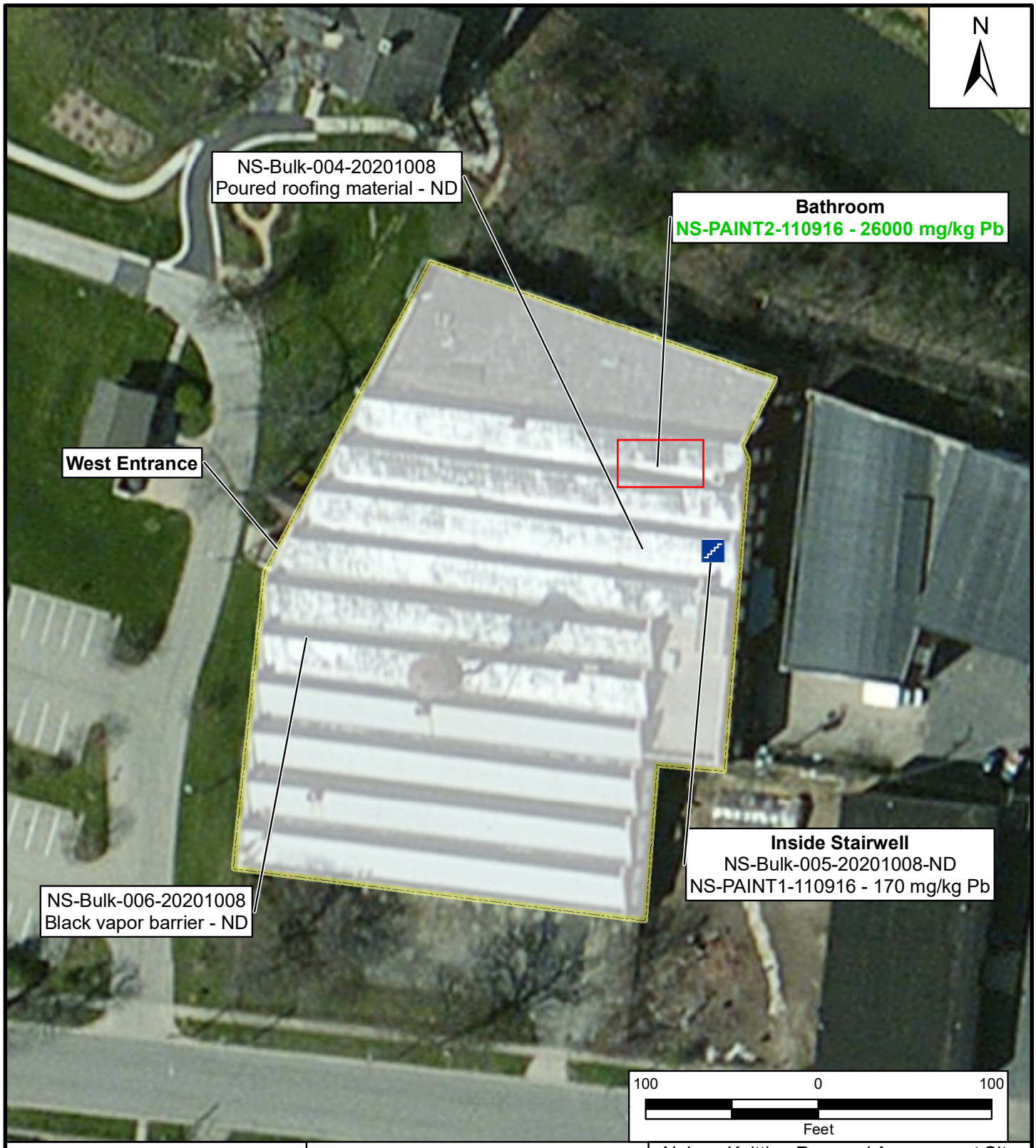
Figure 3
Ambient Air Sample Locations

TETRA TECH

Prepared For: EPA | Prepared By: Tetra Tech, Inc.

File Path: G:\G\G9031-START V\Illinois\Nelson Knitting Site\mxd\Fig2_SiteLayout.mxd

Date Saved: 10/1/2020 EPA Contract No.: 68-HE-0519-D005 TO-TOLIN: F0032-0001BI104 Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere Projection: Mercator Auxiliary Sphere Datum:WGS 1984 Units: Meter



Reference Map

Legend

Approximate Site Boundary

Exceeds Action Levels

Nelson Knitting Removal Assessment Site
909 South Main Street
Rockford, Winnebago County, Illinois

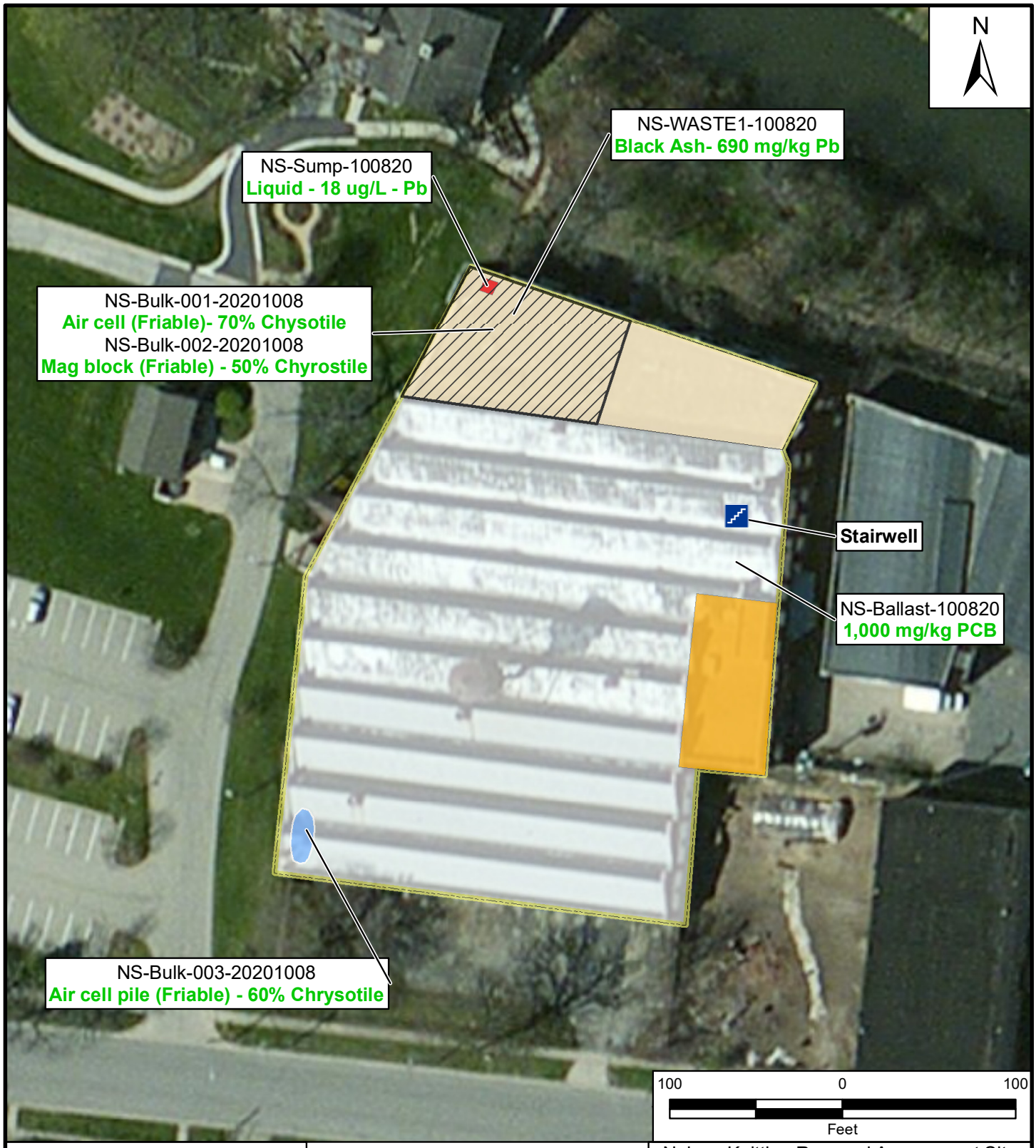
Figure 4A
Main Floor Site Layout/Sample Location

TETRA TECH

Prepared For: EPA | Prepared By: Tetra Tech, Inc.

File Path: G:\G\G9031-START V\Illinois\Nelson Knitting Site\mxd\Fig4A-MainFloorSampleLocation.mxd

Date Saved: 11/24/2020 EPA Contract No.: 68-HE-0519-D005 TO-TOLIN: F0032-0001BI104 Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere Projection: Mercator Auxiliary Sphere Datum:WGS 1984 Units: Meter



Reference Map

Legend

- Asbestos Pile
- Ash Pile
- Boiler Room
- Loading Dock
- Sump
- Approximate Site Boundary

Exceeds Action Levels

Nelson Knitting Removal Assessment Site
909 South Main Street
Rockford, Winnebago County, Illinois

Figure 4B

Layout/Sample Location Map

TETRA TECH

Prepared For: EPA | Prepared By: Tetra Tech, Inc.

File Path: G:\G\G9031-START V\Illinois\Nelson Knitting Site\mxd\Fig4B-BasementSampleLocation.mxd

Date Saved: 11/24/2020 EPA Contract No.: 68-HE-0519-D005 TO-TOLIN: F0032-0001BI104 Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere Projection: Mercator Auxiliary Sphere Datum:WGS 1984 Units: Meter

APPENDIX B
START FIELD NOTES

INCH

MADE IN TACOMA
SINCE 1916
Rite in the Rain
DEFYING MOTHER NATURE

Name

START FIELD LOGBOOK

Logbook Tracking Number

Site Name Nelson Knitting Site RS

Issue to Andre Baker

Date Issued

TO-TOLIN # F0032 - 0001B; 104

MADE IN USA RITE GREEN Archival paper

RiteintheRain.com

CONTENTS

PAGE	REFERENCE	DATE

2 10/8/20

0650 START Houle + Baker, OSC Reusch, and Rockford Rep onsite.
Weather: 43°, high 71°, clear, wind light + variable, 87%.
Per Rockford Rep, trespassing is an issue. Commonly use side entrance.

0720 Plan is to conduct site walk, then set up air monitoring and collect samples

0825 Completed site walk. Evidence of trespassing. 8-10 ACM samples identified. 2 Nalco 20 gal drums and 1 sump identified. Paint in stairwell identified for sampling. 2 places where bonfires were attempted.

0840 2 outdoor spots, ~~south~~ West RH entrance and east access point. Prepping aircons for sampling, calibrating.

0915 Calibrating Gillians

10/8/20

Hi-Vol

Unit	Start Flow	Start Time	Stop Flow	Stop Time
05-AC2003	15.1	0932	12.6	1212
05-AC2009	15.5	0935	14.8	1228
AC2005	10.0	0940	7.31	1217
AC2002	10.3	~~0954~~ 1004 RH	10.2	1227
AC2007	10.1	1003	8.73	1223
AC2001	10.1	0954	9.97	1219

05-AC2 003 - West entrance - PSP 024
05-AC2 009 - East access point
AC2 005 - Main Floor ~~Center~~ RH - PSP023
AC2 002 - Basement main - PSP 025
AC2 007 - Boiler Room - PSP 022
AC2 001 - Main Floor South - PSP 021

Lo-Vol

Unit	Start Flow	Start time	End Flow	End Time
PSP-024	5.04	09 32	3.78	1212
PSP-023	5.00	09 ~~35~~ 49 RH	4.14	1217
PSP-022	4.95	1003	3.71	1223
PSP-025	4.96	1000	3.59	1221
PSP-021	4.95	0954	5.04	1219

1008 Calibrating Lumex, D=3%. Bauergrand on Iodium 5 mREM/hr
1015 Lifting to do screening
- lumpy air 14 mg/m³
- room w/ bubs 38

Rite in the Rain

10/8/20

Main room 40ng
Broken light drum: 30ng
Basement main: 18 ng
Firebrick: 10 mR/hr
- Boiler Rm: peak 1697,
avg 600

1100 Sump sample collected,
collecting ACM samples

1136 sample notes:
- paint 1 is from stairwell,
same paint on walls, stairs 11:10
- Paint 2 is from bathroom 11:35
- waste is from boiler room floor 11:05

1210 Collecting air samples, calibrating
samplers
Securing site, START offsite

1300 Site secured

10/8/20

Rite in the Rain

APPENDIX C
PHOTOGRAPHIC DOCUMENTATION

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 1 **Date:** 10/8/2020 **Description:** Exterior of the former Nelson Knitting Facility. **Direction:** Northeast	
Photograph No. 2 **Date:** 10/8/2020 **Description:** Example of deterioration on the exterior of the former Nelson Knitting Facility. Access point for illegal trespassing evidence. **Direction:** West	

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 3 **Date:** 10/8/2020 **Description:** Debris and refuse scattered inside the building on the main floor as evidence of trespassing. **Direction:** Southwest	
Photograph No. 4 **Date:** 10/8/2020 **Description:** Debris and refuse scattered inside the building as evidence of trespassing. **Direction:** South	

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 5 **Date:** 10/8/2020 **Description:** Firebrick debris and ash located in the boiler room. **Direction:** North	
Photograph No. 6 **Date:** 10/8/2020 **Description:** Deteriorated ceiling insulation. **Direction:** West	

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

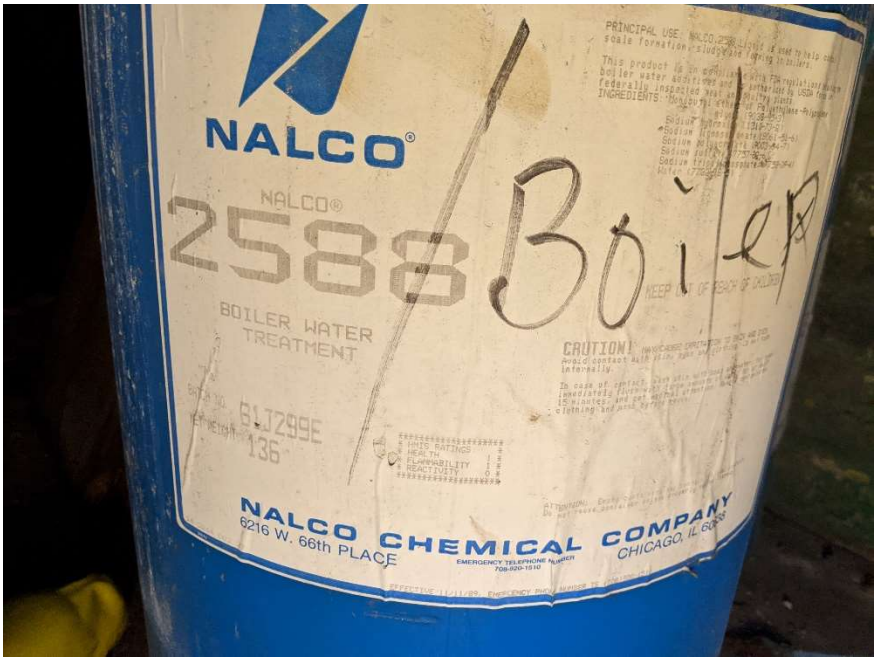
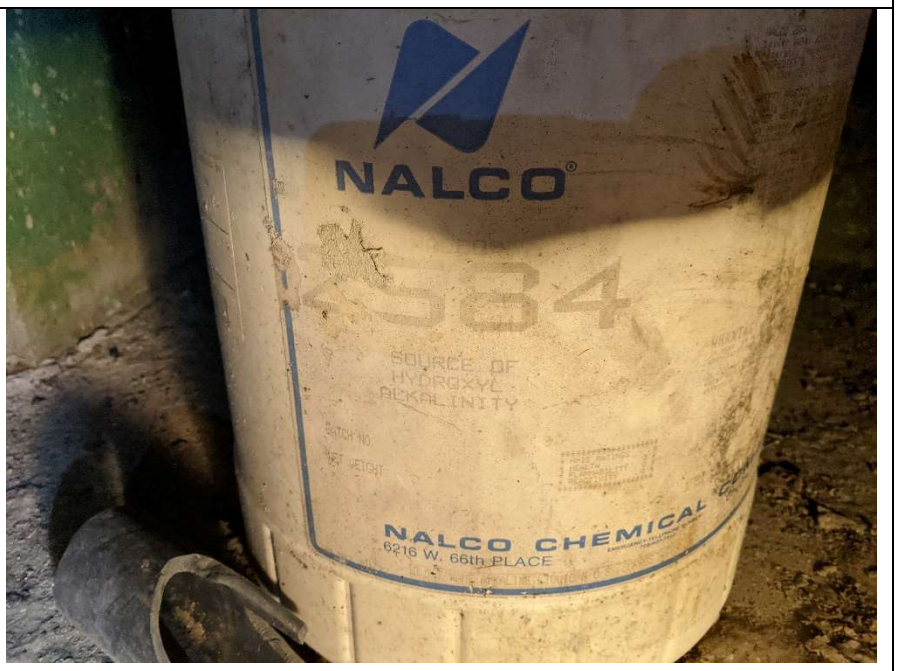
Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 7 **Date:** 10/8/2020 **Description:** Air samples in the Boiler room NS-AA-010-20201008 NS-AA-005-20201008 **Direction:** Northeast	
Photograph No. 8 **Date:** 10/8/2020 **Description:** compromised ballast sample NS-Ballast-100820. **Direction:** West	

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

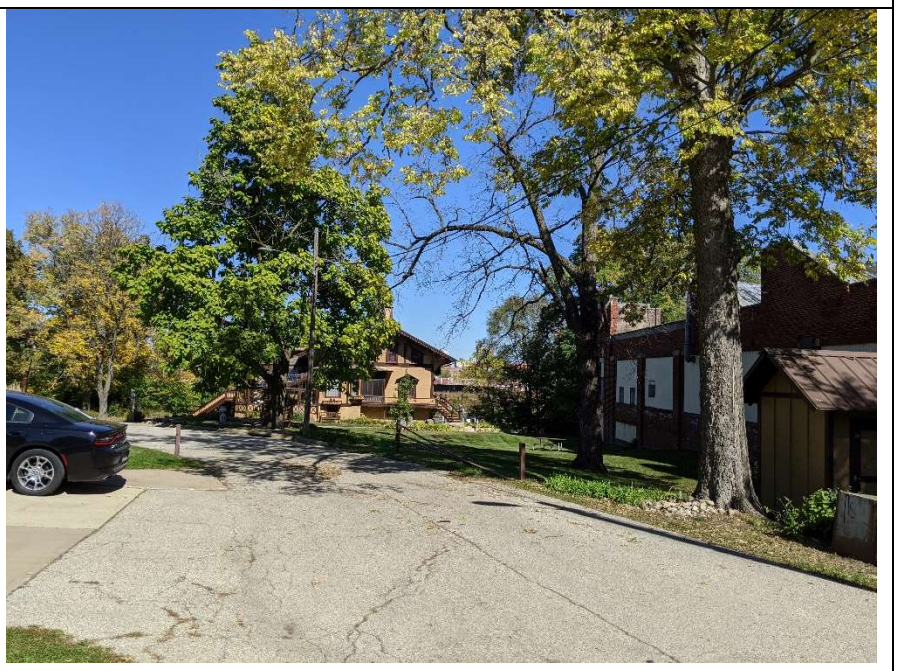
Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 9 **Date:** 10/8/2020 **Description:** 25% full medium sized barrels inside the building. **Direction:** East	
Photograph No. 10 **Date:** 10/8/2020 **Description:** 25% full medium sized barrels inside the building **Direction:** East	

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 11 **Date:** 10/8/2020 **Description:** Area surrounding the former Nelson Knitting Facility. **Direction:** Southeast	
Photograph No. 12 **Date:** 10/8/2020 **Description:** Area surrounding the former Nelson Knitting Facility. **Direction:** North	

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 13 **Date:** 10/8/2020 **Description:** Bulk asbestos sample 001 taken of an air cell in the boiler room. Facing south. **Direction:** East	
Photograph No. 14 **Date:** 10/8/2020 **Description:** Bulk asbestos sample 002 taken of a mag block in the boiler room. **Direction**: west	

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 15 **Date:** 10/8/2020 **Description:** Bulk asbestos sample 003 taken of a destroyed air cell in the basement. Facing south. **Direction:** Northwest	
Photograph No. 16 **Date:** 10/8/2020 **Description:** Bulk asbestos sample 004 taken of poured roofing material on the main floor. **Direction:** East	

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

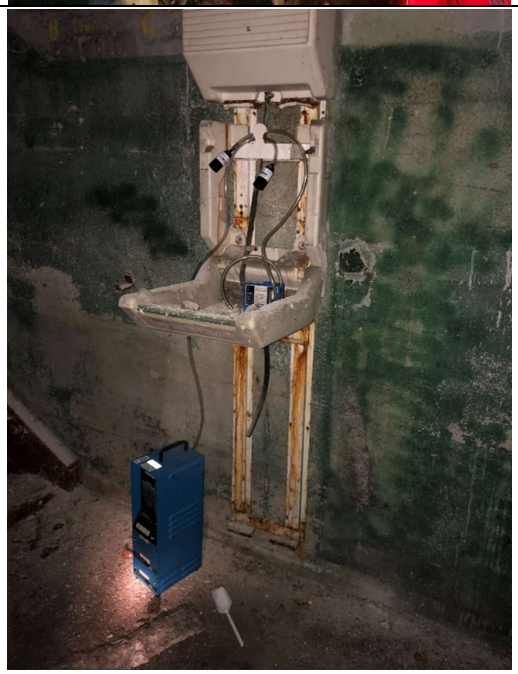
Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 17 **Date:** 10/8/2020 **Description:** Bulk asbestos sample 005 taken of the plaster stairwell in the stairwell. east. **Direction:** East	
Photograph No. 18 **Date:** 10/8/2020 **Description:** Bulk asbestos sample 006 taken of the floor in the main area. **Direction:** West	

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

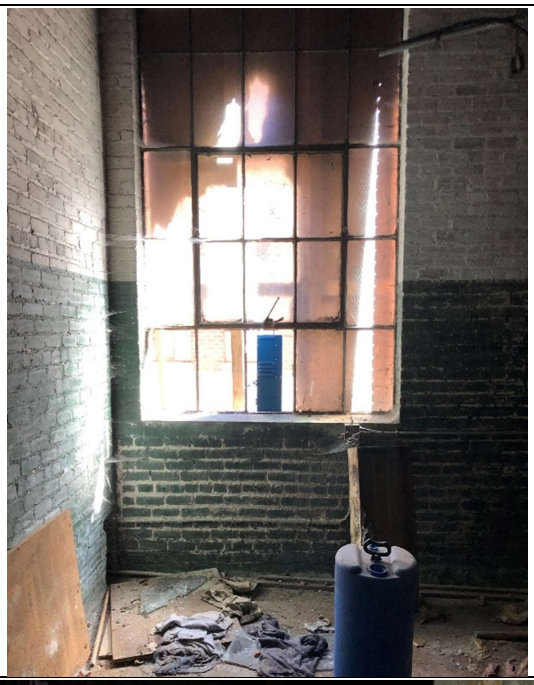
Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 19 **Date:** 10/8/2020 **Description:** Bulk asbestos sample 007 taken in the boiler room. south. **Direction:** South	
Photograph No. 20 **Date:** 10/8/2020 **Description:** Air samples in the Boiler room NS-AA-010-20201008 NS-AA-005-20201008 **Direction:** Northeast	

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

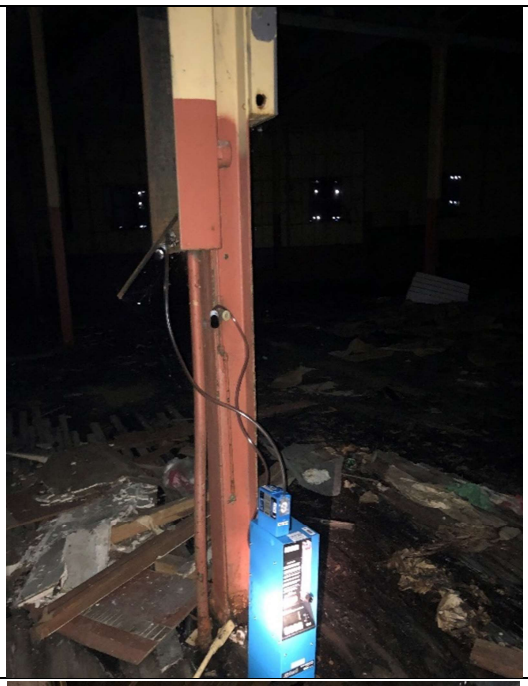
Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 21 **Date:** 10/8/2020 **Description:** Outdoor air sample NS-AA-002-20201008 **Direction:** East	
Photograph No. 23 **Date:** 10/8/2020 **Description:** indoor air samples NS-AA-004-20201008 NS-AA-009-20201008 **Direction:** Northwest	

Photographic Documentation

Client: U.S. EPA
Site Name: Nelson Knitting Site RS
Location: Rockford, Winnebago County, Illinois

Prepared by: Caeli Cleary
TO-TOLIN: F0032-0001BI104
Date: 10/8/2020

Photograph No. 24 **Date:** 10/8/2020 **Description:** Indoor Air sample NS-AA-003-20201008 NS-AA-008-20201008 **Direction:** Northeast	
Photograph No. 26 **Date:** 10/8/2020 **Description:** Evidence of fire due to trespassing on the main floor. **Direction:** South	

APPENDIX D

TABLES

Table D-1
Mercury and Radiation Screening Results
Nelson Knitting Site
Rockford, Winnebago County, Illinois

Location	Mercury ($\mu g/m^3$)			Gamma ($\mu R/hr$)	
	On-site Background Reading 0.040 (µg/m3)	[1]Acceptable level for normal occupancy - most sensitive persons 1 $\mu g/m^3$	[2] Normal Occupancy for commercial setting < 3.0 $\mu g/m^3$	On-site Background Reading 5 (µR/hr)	[3] Typical External Background (U.S. Average) between 6 and 10 µR/hr
Entryway	0.014			5.0	
Room with bulbs	0.038			5.0	
Main room	0.04			5.0	
Broken light drum	0.03			5.0	
Basement Main	0.018			5.0	
Firebrick	N/A			10 [4]	
Boiler Room	average 0.60 peak of 1.697			5.0	

Notes:

[1] USEPA National Elemental Mercury Response Guidebook (March 2019), "Acceptable level for normal occupancy for the most sensitive persons".

[2] USEPA National Elemental Mercury Response Guidebook (March 2019), "Normal Occupancy for commercial settings… of <3.0 ug/m3".

[3] Specialist of Radiation Protection - Typical external background radiation (U.S. Average).

[4] Center for Disease Control and Prevention (CDC), Firebrick typically exhibit elevated radiation readings. These low levels are unlikely to harm human health.

µg/m3 - micrograms per cubic meter

µR/hr - microroentgens per hour

Table D-2
Non-Bulk Asbestos Sample Locations
Nelson Knitting Site
Rockford, Winnebago County, Illinois

Sample ID	Location	Description	Laboratory Analysis
NS-Sump-100820	Boiler Room	Accumulated water in sump located in the boiler room	PCBs, Metals, SVOCs, VOCs, pH
NS-Waste-110916	Boiler Room	Black ash dust on the floor of the boiler room	TAL metals and PCB
NS-Paint-1-100820	Interior Stairwell	Green paint with beige backing	Lead, PCBs
NS-Paint-2-100820	Main Floor Bathroom	White paint with beige backing	Lead, PCBs
NS-Ballast-100820	Basement	Light fixture ballast	PCBs

Notes:
PCBs = Polychlorinated Biphenyls
TAL = Target Analyte List
SVOCs = Semi-Volatile Organic Compounds
VOCs = Volatile Organic Compounds
NS = Nelson Knitting Site

Table D-3
Asbestos Sample Locations
Nelson Knitting Site
Rockford, Winnebago County, Illinois

Sample ID[1]	Location[2]	Description	Laboratory Analysis
NS-Bulk-001-20201008	Boiler room basement air cell **Friable**	Air cell pipe insulation located in the boiler room and throughout the building	PLM EPA 600/R-93/116 PLM
NS-Bulk-002-20201008	Boil room mag block **Friable**	Mag block insulation located in the boiler room	PLM EPA 600/R-93/116 PLM
NS-Bulk-003-20201008	Basement air cell pile **Friable**	Cell pile pipe insulation located in the basement and throughout the building	PLM EPA 600/R-93/116 PLM
NS-Bulk-004-20201008	Poured roofing material	Poured roofing located throughout the building	PLM EPA 600/R-93/116 PLM
NS-Bulk-005-20201008	Plaster stairwell	Plaster located throughout the building	PLM EPA 600/R-93/116 PLM
NS-Bulk-006-20201008	Black vapor barrier	Black vapor located throughout the building on the main floor under the wood flooring	PLM EPA 600/R-93/116 PLM
NS-Bulk-007-20201008	Firebrick	Yellow firebrick located in the boiler room	PLM EPA 600/R-93/116 PLM

Notes:
1 = multiple analysis were performed on one sample due to the presence of different materials
2 = Generalized locations
PLM = Polarized Light Miscroscopy
Friable - Defined by the Asbestos NESHAP as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure

Table D-4
Asbestos Air Sampling Result Summary
Nelson Knitting Site
Rockford, Winnebago County, Illinois

Sample Number	Location	Volume (Liters)	Fibers Detected	Fibers/mm^2	Fibers Detected/cc	
					[1] OSHA PEL (8-Hour) 0.1 f/cc	[2] Asbestos in Schools Rule 0.01 f/cc
NS-AA-001-20201008	West entrance (HF)	2,216	<5.5	<7.0	<0.001	
NS-AA-002-20201008	East access point (HF)	2,620.95	6.0	7.64	0.001	
NS-AA-003-20201008	Main floor (HF)	1280.94	<5.5	<7.0	<0.002	
NS-AA-004-20201008	Basement main floor (HF)	1404.25	<5.5	<7.0	<0.002	
NS-AA-005-20201008	Boiler (HF)	1,318.10	32	40.76	0.012	
NS-AA-006-20201008	Main floor south (HF)	1,455.10	<5.5	<7.0	<0.002	
NS-AA-007-20201008	West entrance (LF)	705.6	<5.5	<7.0	<0.004	
NS-AA-008-20201008	Main floor (LF)	676.36	<5.5	<7.0	<0.004	
NS-AA-009-20201008	Basement main floor (LF)	601.87	<5.5	<7.0	<0.004	
NS-AA-010-20201008	Boiler (LF)	598.5	19.5	24.84	0.016	
NS-AA-011-20201008	Main floor south (LF)	724.2	<5.5	<7.0	<0.004	
NS-AA-012-20201008	Field blank	0.0	<5.5	<7.0	0.0	

Notes:

[1] OSHA Permissible Exposure Limit (PEL) for asbestos is 0.1 fiber per cubic centimeter of air as an eight-hour time-weighted average (TWA)

[2] USEPA 40 CFR Part 763, Subpart E, Asbestos in Schools Rule.

<	Less than
cc	cubic centimeter
mm^2	millimeters squared
HF	High flow
LF	Low flow

Table D-5
Summary of Detected Ash Waste Sample Analytes
Nelson Knitting Site
Rockford, Winnebago County, Illinois

Analyte	Action Level[1]	Units	NS-WASTE1-100820
Metals			
Arsenic	67	mg/kg	7 J
Lead	400	mg/kg	690 J

Notes

Green highlighted cells indicate detection above action level

[1] - EPA Removal Management Level (RML) for Residential Soil with Hazard Quotient of 3 and Target Cancer Risk of 10E-04 used as action level.

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

Table D-6
Summary of Detected Sump Water Sample Analytes
Nelson Knitting Site
Rockford, Winnebago County, Illinois

Analyte	Action Level[1]	Units	NS-Sump-100820
Physical Chemistry			
pH	≤ 2 or ≥ 12.5	S.U.	7.4
Flashpoint	99	degrees	>174
Metals			
Aluminum	6,000	ug/L	97 J
Antimony	23	ug/L	2.5 J
Arsenic	5	ug/L	1.4 J
Barium	11,000	ug/L	38 J
Cadmium	28	ug/L	0.38 J+
Calcium	NA	ug/L	18,000 J
Copper	2,400	ug/L	130 J
Iron	42,000	ug/L	360 J
Lead	15	ug/L	18 J
Magnesium	NA	ug/L	10,000 J
Manganese	1,300	ug/L	290 J
Mercury	1.9	ug/L	ND J
Nickel	9	ug/L	3.7 J
Potassium	NA	ug/L	3,300 J+
Selenium	300	ug/L	2.5 U
Silver	280	ug/L	0.5 U
Sodium	4,000	ug/L	6,900 J
Vanadium	260	ug/L	9.1 J
Zinc	18,000	ug/L	100 J
Polychlorinated Biphenyls (PCBs)			
No dectections			
Volatile Organic Compounds (VOCs)			
Acetone*	42,000	ug/L	8.2
Semi-Volatile Organic Compounds (SVOCs)			
No detections			

Notes

Green highlighted cells indicate detection above action level

[1] = Physical Chemistry Action Level are based on 40 CFR 261; Metals, VOCs, and SVOCs based on EPA RML for Residential Tapwater (HQ = 3, Ca = 10^{-4})

Ca = Cancer risk for carcinogens

HQ = Hazard Quotient for Non-carcinogens

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+ = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

NL = Not listed

U = The analyte was analyzed for, but was not detected at or above the associated value (reporting limit)

ug/L = micrograms per liter

UJ = The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

RML = Removal Management Levels

* - Acetone was the only detectable VOC present and is a common laboratory contaminant.

Table D-7
Summary of Detected Paint Chip Sample Analytes
Nelson Knitting Site
Rockford, Winnebago County, Illinois

Analyte	Action Level[1] (mg/kg)	Units	Sample ID		
			NS-PAINT1-100820	NS-PAINT2-100820	NS-Ballast-100820
Metals					
Lead	5,000	mg/kg	170 J	26,000 J	NA
Polychlorinated Biphenyls (PCBs)					
Total PCBs[2]	50	mg/kg	0.380	0.950	1,000

Notes

Green highlighted cells indicate detection above action level

[1] - Lead action level based on lead-based paint hazard as defined by 40 CFR Part 745; PCBs action level based on PCB bulk product wa

[2] - Total PCBs is the sum of all positive detected Aroclors

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

mg/kg - milligram per kilogram

NA - Not applicable

Table D-8
Asbestos Bulk Sampling Analytical Results
EPA Method 600/R-93/116 Polarized Light Microscopy (PLM)
Nelson Knitting Site
Rockford, Winnebago County, Illinois

Sample Number (Components)[1]	Description	Asbestos Concentration	Estimated Volume
NS-Bulk-001-20201008	Boiler room basement air cell friable	70% Chrysotile	200 LF
NS-Bulk-002-20201008	Boiler room mag block friable	50% Chrysotile	50 SF
NS-Bulk-003-20201008	Basement air cell pile friable	60% Chrysotile	300 LF
NS-Bulk-004-20201008	Poured roofing material	ND	NA
NS-Bulk-005-20201008	Plaster stairwell	ND	NA
NS-Bulk-006-20201008	Black vapor barrier	ND	NA
NS-Bulk-007-20201008	Fire brick	ND	NA

Notes:
[1]-Friable - Defined by the Asbestos NESHAP as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure
LF - Linear Feet
NA - Not Applicable
ND- Non-Detect
SF- Square Feet

ATTACHMENT 1

LABORATORY REPORTS

Eurofins TestAmerica Report No. 500-189062-1

Eurofins TestAmerica Report No. 500-189063-1

Eurofins TestAmerica Report No. 500-189383-1

Eurofins TestAmerica Report No. 500-189474-1

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-189062-1
Client Project/Site: Nelson Knitting

For:
Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Andre Baker

Authorized for release by:
10/22/2020 3:52:20 PM

Jim Knapp, Project Manager II
(630)758-0262
Jim.Knapp@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-189062-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-189062-1

Comments
No additional comments.

Receipt
The samples were received on 10/8/2020 4:47 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 11.4º C.

GC Semi VOA
Method 8082A: The following sample required a dilution due to the nature of the sample matrix: NS-Ballast-100820 (500-189062-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: DCB Decachlorobiphenyl Surrogate recovery for the following sample was outside control limits: NS-Paint 2-100820 (500-189062-2). Tetrachloro-m-xylene Surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following sample(s) contained more than one Aroclor with insufficient separation to quantify individually. The PCBs present are quantified as the predominant Aroclor PCB- 1016 : NS-Ballast-100820 (500-189062-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010C: The following sample was diluted due to the abundance of non-target analytes: NS-Waste-100820 (500-189062-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

Client Sample ID: NS-Ballast-100820 — Lab Sample ID: 500-189062-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	1000		250	87	mg/Kg	1000		8082A	Total/NA

Client Sample ID: NS-Paint 2-100820 — Lab Sample ID: 500-189062-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1262	0.95		0.23	0.047	mg/Kg	1		8082A	Total/NA
Lead	26000		2.2	1.0	mg/Kg	5		6010C	Total/NA

Client Sample ID: NS-Paint 1-100820 — Lab Sample ID: 500-189062-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1262	0.38		0.049	0.010	mg/Kg	1		8082A	Total/NA
Lead	170		0.43	0.20	mg/Kg	1		6010C	Total/NA

Client Sample ID: NS-Waste-100820 — Lab Sample ID: 500-189062-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	690		2.2	1.0	mg/Kg	5		6010C	Total/NA
Arsenic	7.0		0.89	0.30	mg/Kg	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-189062-1	NS-Ballast-100820	Solid	10/08/20 14:15	10/08/20 16:47	
500-189062-2	NS-Paint 2-100820	Solid	10/08/20 11:35	10/08/20 16:47	
500-189062-3	NS-Paint 1-100820	Solid	10/08/20 11:10	10/08/20 16:47	
500-189062-4	NS-Waste-100820	Solid	10/08/20 11:05	10/08/20 16:47	

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

Client Sample ID: NS-Ballast-100820

Lab Sample ID: 500-189062-1

Date Collected: 10/08/20 14:15
Matrix: Solid
Date Received: 10/08/20 16:47

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	**1000**		250	87	mg/Kg		10/20/20 16:54	10/21/20 10:03	1000
PCB-1221	250	U	250	110	mg/Kg		10/20/20 16:54	10/21/20 10:03	1000
PCB-1232	250	U	250	110	mg/Kg		10/20/20 16:54	10/21/20 10:03	1000
PCB-1242	250	U	250	81	mg/Kg		10/20/20 16:54	10/21/20 10:03	1000
PCB-1248	250	U	250	97	mg/Kg		10/20/20 16:54	10/21/20 10:03	1000
PCB-1254	250	U	250	53	mg/Kg		10/20/20 16:54	10/21/20 10:03	1000
PCB-1260	250	U	250	120	mg/Kg		10/20/20 16:54	10/21/20 10:03	1000
PCB-1262	250	U	250	51	mg/Kg		10/20/20 16:54	10/21/20 10:03	1000
PCB-1268	250	U	250	47	mg/Kg		10/20/20 16:54	10/21/20 10:03	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*49 - 129*	*10/20/20 16:54*	*10/21/20 10:03*	*1000*
DCB Decachlorobiphenyl	*0*	*D*	*37 - 121*	*10/20/20 16:54*	*10/21/20 10:03*	*1000*

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

Client Sample ID: NS-Paint 2-100820

Lab Sample ID: 500-189062-2

Date Collected: 10/08/20 11:35
Matrix: Solid
Date Received: 10/08/20 16:47

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.23	U	0.23	0.080	mg/Kg		10/20/20 16:54	10/21/20 10:34	1
PCB-1221	0.23	U	0.23	0.099	mg/Kg		10/20/20 16:54	10/21/20 10:34	1
PCB-1232	0.23	U	0.23	0.098	mg/Kg		10/20/20 16:54	10/21/20 10:34	1
PCB-1242	0.23	U	0.23	0.074	mg/Kg		10/20/20 16:54	10/21/20 10:34	1
PCB-1248	0.23	U	0.23	0.089	mg/Kg		10/20/20 16:54	10/21/20 10:34	1
PCB-1254	0.23	U	0.23	0.049	mg/Kg		10/20/20 16:54	10/21/20 10:34	1
PCB-1260	0.23	U	0.23	0.11	mg/Kg		10/20/20 16:54	10/21/20 10:34	1
PCB-1262	**0.95**		0.23	0.047	mg/Kg		10/20/20 16:54	10/21/20 10:34	1
PCB-1268	0.23	U	0.23	0.043	mg/Kg		10/20/20 16:54	10/21/20 10:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*49 - 129*	*10/20/20 16:54*	*10/21/20 10:34*	*1*
DCB Decachlorobiphenyl	*421*	*X*	*37 - 121*	*10/20/20 16:54*	*10/21/20 10:34*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**26000**		2.2	1.0	mg/Kg		10/16/20 07:28	10/19/20 11:39	5

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

Client Sample ID: NS-Paint 1-100820

Lab Sample ID: 500-189062-3

Date Collected: 10/08/20 11:10
Matrix: Solid
Date Received: 10/08/20 16:47

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.049	U	0.049	0.017	mg/Kg		10/20/20 16:54	10/21/20 10:49	1
PCB-1221	0.049	U	0.049	0.021	mg/Kg		10/20/20 16:54	10/21/20 10:49	1
PCB-1232	0.049	U	0.049	0.021	mg/Kg		10/20/20 16:54	10/21/20 10:49	1
PCB-1242	0.049	U	0.049	0.016	mg/Kg		10/20/20 16:54	10/21/20 10:49	1
PCB-1248	0.049	U	0.049	0.019	mg/Kg		10/20/20 16:54	10/21/20 10:49	1
PCB-1254	0.049	U	0.049	0.010	mg/Kg		10/20/20 16:54	10/21/20 10:49	1
PCB-1260	0.049	U	0.049	0.024	mg/Kg		10/20/20 16:54	10/21/20 10:49	1
PCB-1262	**0.38**		0.049	0.010	mg/Kg		10/20/20 16:54	10/21/20 10:49	1
PCB-1268	0.049	U	0.049	0.0093	mg/Kg		10/20/20 16:54	10/21/20 10:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*49 - 129*	*10/20/20 16:54*	*10/21/20 10:49*	*1*
DCB Decachlorobiphenyl	*88*		*37 - 121*	*10/20/20 16:54*	*10/21/20 10:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**170**		0.43	0.20	mg/Kg		10/16/20 07:28	10/16/20 15:47	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

Client Sample ID: NS-Waste-100820

Lab Sample ID: 500-189062-4

Date Collected: 10/08/20 11:05
Matrix: Solid
Date Received: 10/08/20 16:47

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.082	U	0.082	0.029	mg/Kg		10/20/20 16:54	10/21/20 11:05	1
PCB-1221	0.082	U	0.082	0.036	mg/Kg		10/20/20 16:54	10/21/20 11:05	1
PCB-1232	0.082	U	0.082	0.036	mg/Kg		10/20/20 16:54	10/21/20 11:05	1
PCB-1242	0.082	U	0.082	0.027	mg/Kg		10/20/20 16:54	10/21/20 11:05	1
PCB-1248	0.082	U	0.082	0.032	mg/Kg		10/20/20 16:54	10/21/20 11:05	1
PCB-1254	0.082	U	0.082	0.018	mg/Kg		10/20/20 16:54	10/21/20 11:05	1
PCB-1260	0.082	U	0.082	0.040	mg/Kg		10/20/20 16:54	10/21/20 11:05	1
PCB-1262	0.082	U	0.082	0.017	mg/Kg		10/20/20 16:54	10/21/20 11:05	1
PCB-1268	0.082	U	0.082	0.016	mg/Kg		10/20/20 16:54	10/21/20 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*49 - 129*	*10/20/20 16:54*	*10/21/20 11:05*	*1*
DCB Decachlorobiphenyl	*63*		*37 - 121*	*10/20/20 16:54*	*10/21/20 11:05*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**690**		2.2	1.0	mg/Kg		10/16/20 07:28	10/19/20 11:42	5
Arsenic	**7.0**		0.89	0.30	mg/Kg		10/16/20 07:28	10/16/20 15:50	1

Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

GC Semi VOA

Prep Batch: 567583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189062-1	NS-Ballast-100820	Total/NA	Solid	3541	
500-189062-2	NS-Paint 2-100820	Total/NA	Solid	3541	
500-189062-3	NS-Paint 1-100820	Total/NA	Solid	3541	
500-189062-4	NS-Waste-100820	Total/NA	Solid	3541	
MB 500-567583/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-567583/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 567646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189062-1	NS-Ballast-100820	Total/NA	Solid	8082A	567583
500-189062-2	NS-Paint 2-100820	Total/NA	Solid	8082A	567583
500-189062-3	NS-Paint 1-100820	Total/NA	Solid	8082A	567583
500-189062-4	NS-Waste-100820	Total/NA	Solid	8082A	567583
MB 500-567583/1-A	Method Blank	Total/NA	Solid	8082A	567583
LCS 500-567583/2-A	Lab Control Sample	Total/NA	Solid	8082A	567583

Metals

Prep Batch: 566880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189062-2	NS-Paint 2-100820	Total/NA	Solid	3050B	
500-189062-3	NS-Paint 1-100820	Total/NA	Solid	3050B	
500-189062-4	NS-Waste-100820	Total/NA	Solid	3050B	
MB 500-566880/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-566880/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 567158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189062-3	NS-Paint 1-100820	Total/NA	Solid	6010C	566880
500-189062-4	NS-Waste-100820	Total/NA	Solid	6010C	566880
MB 500-566880/1-A	Method Blank	Total/NA	Solid	6010C	566880
LCS 500-566880/2-A	Lab Control Sample	Total/NA	Solid	6010C	566880

Analysis Batch: 567297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189062-2	NS-Paint 2-100820	Total/NA	Solid	6010C	566880
500-189062-4	NS-Waste-100820	Total/NA	Solid	6010C	566880

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-189062-1	NS-Ballast-100820	0 D	0 D
500-189062-2	NS-Paint 2-100820	88	421 X
500-189062-3	NS-Paint 1-100820	78	88
500-189062-4	NS-Waste-100820	71	63
LCS 500-567583/2-A	Lab Control Sample	81	75
MB 500-567583/1-A	Method Blank	78	73

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-567583/1-A
Matrix: Solid
Analysis Batch: 567646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.017	U	0.017	0.0059	mg/Kg		10/20/20 16:54	10/21/20 02:52	1
PCB-1221	0.017	U	0.017	0.0073	mg/Kg		10/20/20 16:54	10/21/20 02:52	1
PCB-1232	0.017	U	0.017	0.0073	mg/Kg		10/20/20 16:54	10/21/20 02:52	1
PCB-1242	0.017	U	0.017	0.0055	mg/Kg		10/20/20 16:54	10/21/20 02:52	1
PCB-1248	0.017	U	0.017	0.0066	mg/Kg		10/20/20 16:54	10/21/20 02:52	1
PCB-1254	0.017	U	0.017	0.0036	mg/Kg		10/20/20 16:54	10/21/20 02:52	1
PCB-1260	0.017	U	0.017	0.0082	mg/Kg		10/20/20 16:54	10/21/20 02:52	1
PCB-1262	0.017	U	0.017	0.0035	mg/Kg		10/20/20 16:54	10/21/20 02:52	1
PCB-1268	0.017	U	0.017	0.0032	mg/Kg		10/20/20 16:54	10/21/20 02:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*49 - 129*	*10/20/20 16:54*	*10/21/20 02:52*	*1*
DCB Decachlorobiphenyl	*73*		*37 - 121*	*10/20/20 16:54*	*10/21/20 02:52*	*1*

Lab Sample ID: LCS 500-567583/2-A
Matrix: Solid
Analysis Batch: 567646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.167	0.162		mg/Kg		97	57 - 120
PCB-1260	0.167	0.165		mg/Kg		99	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*49 - 129*
DCB Decachlorobiphenyl	*75*		*37 - 121*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-566880/1-A
Matrix: Solid
Analysis Batch: 567158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.50	U	0.50	0.23	mg/Kg		10/16/20 07:28	10/16/20 14:51	1
Arsenic	1.0	U	1.0	0.34	mg/Kg		10/16/20 07:28	10/16/20 14:51	1

Lab Sample ID: LCS 500-566880/2-A
Matrix: Solid
Analysis Batch: 567158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.0	9.25		mg/Kg		92	80 - 120
Arsenic	10.0	9.03		mg/Kg		90	80 - 120

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

Client Sample ID: NS-Ballast-100820

Lab Sample ID: 500-189062-1
Matrix: Solid
Date Collected: 10/08/20 14:15
Date Received: 10/08/20 16:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			567583	10/20/20 16:54	ACK	TAL CHI
Total/NA	Analysis	8082A		1000	567646	10/21/20 10:03	JBJ	TAL CHI

Client Sample ID: NS-Paint 2-100820

Lab Sample ID: 500-189062-2
Matrix: Solid
Date Collected: 10/08/20 11:35
Date Received: 10/08/20 16:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			567583	10/20/20 16:54	ACK	TAL CHI
Total/NA	Analysis	8082A		1	567646	10/21/20 10:34	JBJ	TAL CHI
Total/NA	Prep	3050B			566880	10/16/20 07:28	LMN	TAL CHI
Total/NA	Analysis	6010C		5	567297	10/19/20 11:39	JEF	TAL CHI

Client Sample ID: NS-Paint 1-100820

Lab Sample ID: 500-189062-3
Matrix: Solid
Date Collected: 10/08/20 11:10
Date Received: 10/08/20 16:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			567583	10/20/20 16:54	ACK	TAL CHI
Total/NA	Analysis	8082A		1	567646	10/21/20 10:49	JBJ	TAL CHI
Total/NA	Prep	3050B			566880	10/16/20 07:28	LMN	TAL CHI
Total/NA	Analysis	6010C		1	567158	10/16/20 15:47	JEF	TAL CHI

Client Sample ID: NS-Waste-100820

Lab Sample ID: 500-189062-4
Matrix: Solid
Date Collected: 10/08/20 11:05
Date Received: 10/08/20 16:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			567583	10/20/20 16:54	ACK	TAL CHI
Total/NA	Analysis	8082A		1	567646	10/21/20 11:05	JBJ	TAL CHI
Total/NA	Prep	3050B			566880	10/16/20 07:28	LMN	TAL CHI
Total/NA	Analysis	6010C		5	567297	10/19/20 11:42	JEF	TAL CHI
Total/NA	Prep	3050B			566880	10/16/20 07:28	LMN	TAL CHI
Total/NA	Analysis	6010C		1	567158	10/16/20 15:50	JEF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189062-1

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	PCB-1262
8082A	3541	Solid	PCB-1268

Indiana	State	C-IL-02	06-29-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6010C	3050B	Solid	Arsenic
6010C	3050B	Solid	Lead
8082A	3541	Solid	PCB-1016
8082A	3541	Solid	PCB-1221
8082A	3541	Solid	PCB-1232
8082A	3541	Solid	PCB-1242
8082A	3541	Solid	PCB-1248
8082A	3541	Solid	PCB-1254
8082A	3541	Solid	PCB-1260
8082A	3541	Solid	PCB-1262
8082A	3541	Solid	PCB-1268

Wisconsin	State	999580010	08-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	PCB-1262
8082A	3541	Solid	PCB-1268

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s)	COC No: 500-85900-38821.1
Client Contact: Andre Baker	Phone:	E-Mail: Jim.Knapp@Eurofinset.com		Page: Page 1 of 2
Company: Tetra Tech EM Inc.				Job #: 500-189062
Address: 1 South Wacker Drive 37 Floor Ste. 3700	Due Date Requested:			
City: Chicago	TAT Requested (days): ~~[illegible]~~ Standard			
State, Zip: IL, 60606				
Phone:	PO #: 1168715/ETA-17			
Email: Andre.Baker@tetratech.com	WO #:			
Project Name: Nelson Knitting	Project #: 50018128			
Site:	SSOW#:			

500-189062 COC

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RB	Lead	Arsenic	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
1 NS-Ballast-100820	10-8-20	1415	G	Solid			X				
2 NS-Paint2-100820		11:35	G	Solid			X	X			
3 NS-Paint1-100820		11:10	G	Solid			X	X			
4 NS-Waste-100820 (Ash)		11:05	G	Solid			X	X	X		
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10-08-2020 16:47		[signature]	10/8/20 1647	TTA CHI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 16.4 client drop off

Ver: 01/16/2019

10/22/2020

Login Sample Receipt Checklist

Client: Tetra Tech EM Inc.

Job Number: 500-189062-1

Login Number: 189062
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	11.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-189063-1
Client Project/Site: Nelson Knitting

For:
Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Andre Baker

Authorized for release by:
10/23/2020 11:00:20 AM

Jim Knapp, Project Manager II
(630)758-0262
Jim.Knapp@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-189063-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-189063-1

Comments
No additional comments.

Receipt
The sample was received on 10/8/2020 4:47 PM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 11.4º C.

GC/MS VOA
Method 8260B: The method blank for 566660 contained Methylene chloride above the method detection limit and above the reporting limit (RL). This target analytes concentration was less than the reporting limit (RL) in the sample; therefore, re-analysis of sample was not performed. Methylene chloride result had been flagged in the associated sample with a "B" flag denote the presence in the blank and possible lab contamination.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) analyzed in 500-566131 was outside the method criteria for the following analyte(s): Caprolactam and Atrazine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-566131 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane]. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-566131 was outside the method criteria for the following analyte(s): Benzo[b]fluoranthene, Di-n-octyl phthalate, Indeno[1,2,3-cd]pyrene and 2,4,6-Tribromophenol (Surr). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Methods 200.8, 6020A: The continuing calibration verification (CCV) associated with batch 500-567498 recovered above the upper control limit for Selenium. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

Client Sample ID: NS-SUMP-100820 — Lab Sample ID: 500-189063-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0082	J	0.010	0.0017	mg/L	1		8260B	Total/NA
Methylene Chloride	0.0029	J B	0.0050	0.0016	mg/L	1		8260B	Total/NA
Benzo[a]anthracene	0.000078	J	0.00019	0.000053	mg/L	1		8270D	Total/NA
Benzo[a]pyrene	0.00020		0.00019	0.000093	mg/L	1		8270D	Total/NA
Aluminum	0.097	J	0.10	0.025	mg/L	1		6020A	Total/NA
Antimony	0.0025	J	0.0030	0.0013	mg/L	1		6020A	Total/NA
Arsenic	0.0014	B	0.0010	0.00023	mg/L	1		6020A	Total/NA
Barium	0.038		0.0025	0.00073	mg/L	1		6020A	Total/NA
Cadmium	0.00038	J	0.00050	0.00017	mg/L	1		6020A	Total/NA
Calcium	18	B	0.20	0.044	mg/L	1		6020A	Total/NA
Copper	0.013	B	0.0020	0.00050	mg/L	1		6020A	Total/NA
Iron	0.36		0.10	0.047	mg/L	1		6020A	Total/NA
Lead	0.018		0.00050	0.00019	mg/L	1		6020A	Total/NA
Magnesium	10		0.20	0.049	mg/L	1		6020A	Total/NA
Manganese	0.029		0.0025	0.00079	mg/L	1		6020A	Total/NA
Nickel	0.0037		0.0020	0.00063	mg/L	1		6020A	Total/NA
Potassium	3.3	B	0.50	0.11	mg/L	1		6020A	Total/NA
Sodium	6.9		0.20	0.077	mg/L	1		6020A	Total/NA
Vanadium	0.0091		0.0050	0.0022	mg/L	1		6020A	Total/NA
Zinc	0.10		0.020	0.0069	mg/L	1		6020A	Total/NA
Flashpoint	>176		99.0	99.0	Degrees F	1		1010A	Total/NA
corrosivity by pH	7.4	HF	0.2	0.2	SU	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9040C	pH	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-189063-1	NS-SUMP-100820	Water	10/08/20 11:00	10/08/20 16:47	

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

Client Sample ID: NS-SUMP-100820

Lab Sample ID: 500-189063-1

Date Collected: 10/08/20 11:00
Matrix: Water
Date Received: 10/08/20 16:47

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.0030	U	0.0030	0.00067	mg/L			10/15/20 17:55	1
Chloromethane	0.0010	U	0.0010	0.00032	mg/L			10/15/20 17:55	1
Vinyl chloride	0.0010	U	0.0010	0.00020	mg/L			10/15/20 17:55	1
Bromomethane	0.0030	U	0.0030	0.00080	mg/L			10/15/20 17:55	1
Chloroethane	0.0010	U	0.0010	0.00051	mg/L			10/15/20 17:55	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00043	mg/L			10/15/20 17:55	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00039	mg/L			10/15/20 17:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00046	mg/L			10/15/20 17:55	1
Acetone	**0.0082**	**J**	0.010	0.0017	mg/L			10/15/20 17:55	1
Carbon disulfide	0.0020	U	0.0020	0.00045	mg/L			10/15/20 17:55	1
Methyl acetate	0.0050	U	0.0050	0.0020	mg/L			10/15/20 17:55	1
Methylene Chloride	**0.0029**	**J B**	0.0050	0.0016	mg/L			10/15/20 17:55	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00035	mg/L			10/15/20 17:55	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00039	mg/L			10/15/20 17:55	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00041	mg/L			10/15/20 17:55	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00041	mg/L			10/15/20 17:55	1
Methyl Ethyl Ketone	0.0050	U	0.0050	0.0021	mg/L			10/15/20 17:55	1
Chloroform	0.0020	U	0.0020	0.00037	mg/L			10/15/20 17:55	1
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00038	mg/L			10/15/20 17:55	1
Cyclohexane	0.0010	U	0.0010	0.00049	mg/L			10/15/20 17:55	1
Carbon tetrachloride	0.0010	U	0.0010	0.00038	mg/L			10/15/20 17:55	1
Benzene	0.00050	U	0.00050	0.00015	mg/L			10/15/20 17:55	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00039	mg/L			10/15/20 17:55	1
Trichloroethene	0.00050	U	0.00050	0.00016	mg/L			10/15/20 17:55	1
Methylcyclohexane	0.0010	U	0.0010	0.00032	mg/L			10/15/20 17:55	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00043	mg/L			10/15/20 17:55	1
Bromodichloromethane	0.0010	U	0.0010	0.00037	mg/L			10/15/20 17:55	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00042	mg/L			10/15/20 17:55	1
methyl isobutyl ketone	0.0050	U	0.0050	0.0022	mg/L			10/15/20 17:55	1
Toluene	0.00050	U	0.00050	0.00015	mg/L			10/15/20 17:55	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00036	mg/L			10/15/20 17:55	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00035	mg/L			10/15/20 17:55	1
Tetrachloroethene	0.0010	U	0.0010	0.00037	mg/L			10/15/20 17:55	1
2-Hexanone	0.0050	U	0.0050	0.0016	mg/L			10/15/20 17:55	1
Dibromochloromethane	0.0010	U	0.0010	0.00049	mg/L			10/15/20 17:55	1
1,2-Dibromoethane	0.0010	U	0.0010	0.00039	mg/L			10/15/20 17:55	1
Chlorobenzene	0.0010	U	0.0010	0.00039	mg/L			10/15/20 17:55	1
Ethylbenzene	0.00050	U	0.00050	0.00018	mg/L			10/15/20 17:55	1
Xylenes, Total	0.0010	U	0.0010	0.00022	mg/L			10/15/20 17:55	1
Styrene	0.0010	U	0.0010	0.00039	mg/L			10/15/20 17:55	1
Bromoform	0.0010	U	0.0010	0.00048	mg/L			10/15/20 17:55	1
Isopropylbenzene	0.0010	U	0.0010	0.00039	mg/L			10/15/20 17:55	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00040	mg/L			10/15/20 17:55	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00040	mg/L			10/15/20 17:55	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/L			10/15/20 17:55	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00033	mg/L			10/15/20 17:55	1
1,2-Dibromo-3-Chloropropane	0.0050	U	0.0050	0.0020	mg/L			10/15/20 17:55	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00034	mg/L			10/15/20 17:55	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

Client Sample ID: NS-SUMP-100820

Lab Sample ID: 500-189063-1

Date Collected: 10/08/20 11:00
Matrix: Water
Date Received: 10/08/20 16:47

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*10/15/20 17:55*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*10/15/20 17:55*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*10/15/20 17:55*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*10/15/20 17:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	0.038	U	0.038	0.014	mg/L		10/11/20 07:35	10/13/20 02:30	1
Phenol	0.0047	U	0.0047	0.00063	mg/L		10/11/20 07:35	10/13/20 02:30	1
Bis(2-chloroethyl)ether	0.0019	U	0.0019	0.00027	mg/L		10/11/20 07:35	10/13/20 02:30	1
2-Chlorophenol	0.0047	U	0.0047	0.00052	mg/L		10/11/20 07:35	10/13/20 02:30	1
2-Methylphenol	0.0019	U	0.0019	0.00029	mg/L		10/11/20 07:35	10/13/20 02:30	1
2,2'-oxybis[1-chloropropane]	0.0019	U	0.0019	0.00036	mg/L		10/11/20 07:35	10/13/20 02:30	1
Acetophenone	0.0047	U	0.0047	0.00062	mg/L		10/11/20 07:35	10/13/20 02:30	1
N-Nitrosodi-n-propylamine	0.00047	U	0.00047	0.00014	mg/L		10/11/20 07:35	10/13/20 02:30	1
Hexachloroethane	0.0047	U	0.0047	0.00056	mg/L		10/11/20 07:35	10/13/20 02:30	1
Nitrobenzene	0.00094	U	0.00094	0.00042	mg/L		10/11/20 07:35	10/13/20 02:30	1
Isophorone	0.0019	U	0.0019	0.00035	mg/L		10/11/20 07:35	10/13/20 02:30	1
2-Nitrophenol	0.0094	U	0.0094	0.0023	mg/L		10/11/20 07:35	10/13/20 02:30	1
2,4-Dimethylphenol	0.0094	U	0.0094	0.0017	mg/L		10/11/20 07:35	10/13/20 02:30	1
Bis(2-chloroethoxy)methane	0.0019	U	0.0019	0.00027	mg/L		10/11/20 07:35	10/13/20 02:30	1
2,4-Dichlorophenol	0.0094	U	0.0094	0.0024	mg/L		10/11/20 07:35	10/13/20 02:30	1
Naphthalene	0.00094	U	0.00094	0.00029	mg/L		10/11/20 07:35	10/13/20 02:30	1
4-Chloroaniline	0.0094	U	0.0094	0.0019	mg/L		10/11/20 07:35	10/13/20 02:30	1
Hexachlorobutadiene	0.0047	U	0.0047	0.00048	mg/L		10/11/20 07:35	10/13/20 02:30	1
Caprolactam	0.0094	U	0.0094	0.0014	mg/L		10/11/20 07:35	10/13/20 02:30	1
4-Chloro-3-methylphenol	0.0094	U	0.0094	0.0022	mg/L		10/11/20 07:35	10/13/20 02:30	1
2-Methylnaphthalene	0.0019	U	0.0019	0.000061	mg/L		10/11/20 07:35	10/13/20 02:30	1
Hexachlorocyclopentadiene	0.019	U	0.019	0.0060	mg/L		10/11/20 07:35	10/13/20 02:30	1
2,4,6-Trichlorophenol	0.0047	U	0.0047	0.00067	mg/L		10/11/20 07:35	10/13/20 02:30	1
2,4,5-Trichlorophenol	0.0094	U	0.0094	0.0024	mg/L		10/11/20 07:35	10/13/20 02:30	1
1,1'-Biphenyl	0.0047	U	0.0047	0.00034	mg/L		10/11/20 07:35	10/13/20 02:30	1
2-Chloronaphthalene	0.0019	U	0.0019	0.00022	mg/L		10/11/20 07:35	10/13/20 02:30	1
2-Nitroaniline	0.0047	U	0.0047	0.0012	mg/L		10/11/20 07:35	10/13/20 02:30	1
Dimethyl phthalate	0.0047	U	0.0047	0.00029	mg/L		10/11/20 07:35	10/13/20 02:30	1
2,6-Dinitrotoluene	0.00094	U	0.00094	0.000069	mg/L		10/11/20 07:35	10/13/20 02:30	1
Acenaphthylene	0.00094	U	0.00094	0.00025	mg/L		10/11/20 07:35	10/13/20 02:30	1
3-Nitroaniline	0.0094	U	0.0094	0.0017	mg/L		10/11/20 07:35	10/13/20 02:30	1
Acenaphthene	0.00094	U	0.00094	0.00029	mg/L		10/11/20 07:35	10/13/20 02:30	1
2,4-Dinitrophenol	0.019	U	0.019	0.0081	mg/L		10/11/20 07:35	10/13/20 02:30	1
4-Nitrophenol	0.019	U	0.019	0.0070	mg/L		10/11/20 07:35	10/13/20 02:30	1
Dibenzofuran	0.0019	U	0.0019	0.00025	mg/L		10/11/20 07:35	10/13/20 02:30	1
2,4-Dinitrotoluene	0.00094	U	0.00094	0.00023	mg/L		10/11/20 07:35	10/13/20 02:30	1
Diethyl phthalate	0.0047	U	0.0047	0.00034	mg/L		10/11/20 07:35	10/13/20 02:30	1
Fluorene	0.00094	U	0.00094	0.00023	mg/L		10/11/20 07:35	10/13/20 02:30	1
4-Chlorophenyl phenyl ether	0.0047	U	0.0047	0.00060	mg/L		10/11/20 07:35	10/13/20 02:30	1
4-Nitroaniline	0.0094	U	0.0094	0.0016	mg/L		10/11/20 07:35	10/13/20 02:30	1
4,6-Dinitro-2-methylphenol	0.019	U	0.019	0.0055	mg/L		10/11/20 07:35	10/13/20 02:30	1
N-Nitrosodiphenylamine	0.0019	U	0.0019	0.00035	mg/L		10/11/20 07:35	10/13/20 02:30	1
4-Bromophenyl phenyl ether	0.0047	U	0.0047	0.00051	mg/L		10/11/20 07:35	10/13/20 02:30	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

Client Sample ID: NS-SUMP-100820

Lab Sample ID: 500-189063-1

Date Collected: 10/08/20 11:00
Date Received: 10/08/20 16:47

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	0.00047	U	0.00047	0.000074	mg/L		10/11/20 07:35	10/13/20 02:30	1
Atrazine	0.0047	U	0.0047	0.00059	mg/L		10/11/20 07:35	10/13/20 02:30	1
Pentachlorophenol	0.019	U	0.019	0.0037	mg/L		10/11/20 07:35	10/13/20 02:30	1
Phenanthrene	0.00094	U	0.00094	0.00028	mg/L		10/11/20 07:35	10/13/20 02:30	1
Anthracene	0.00094	U	0.00094	0.00031	mg/L		10/11/20 07:35	10/13/20 02:30	1
Carbazole	0.0047	U	0.0047	0.00033	mg/L		10/11/20 07:35	10/13/20 02:30	1
Di-n-butyl phthalate	0.0047	U	0.0047	0.00068	mg/L		10/11/20 07:35	10/13/20 02:30	1
Fluoranthene	0.00094	U	0.00094	0.00043	mg/L		10/11/20 07:35	10/13/20 02:30	1
Pyrene	0.00094	U	0.00094	0.00040	mg/L		10/11/20 07:35	10/13/20 02:30	1
Butyl benzyl phthalate	0.0019	U	0.0019	0.00045	mg/L		10/11/20 07:35	10/13/20 02:30	1
3,3'-Dichlorobenzidine	0.0047	U	0.0047	0.0016	mg/L		10/11/20 07:35	10/13/20 02:30	1
Benzo[a]anthracene	**0.000078**	**J**	0.00019	0.000053	mg/L		10/11/20 07:35	10/13/20 02:30	1
Chrysene	0.00019	U	0.00019	0.000064	mg/L		10/11/20 07:35	10/13/20 02:30	1
Bis(2-ethylhexyl) phthalate	0.0094	U	0.0094	0.0016	mg/L		10/11/20 07:35	10/13/20 02:30	1
Di-n-octyl phthalate	0.0094	U	0.0094	0.00098	mg/L		10/11/20 07:35	10/13/20 02:30	1
Benzo[b]fluoranthene	0.00019	U	0.00019	0.000076	mg/L		10/11/20 07:35	10/13/20 02:30	1
Benzo[k]fluoranthene	0.00019	U	0.00019	0.000060	mg/L		10/11/20 07:35	10/13/20 02:30	1
Benzo[a]pyrene	**0.00020**		0.00019	0.000093	mg/L		10/11/20 07:35	10/13/20 02:30	1
Indeno[1,2,3-cd]pyrene	0.00019	U	0.00019	0.000070	mg/L		10/11/20 07:35	10/13/20 02:30	1
Dibenz(a,h)anthracene	0.00028	U	0.00028	0.000048	mg/L		10/11/20 07:35	10/13/20 02:30	1
Benzo[g,h,i]perylene	0.00094	U	0.00094	0.00035	mg/L		10/11/20 07:35	10/13/20 02:30	1
3 & 4 Methylphenol	0.0019	U	0.0019	0.00042	mg/L		10/11/20 07:35	10/13/20 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*50*		*27 - 110*	*10/11/20 07:35*	*10/13/20 02:30*	*1*
Phenol-d5 (Surr)	*29*		*20 - 110*	*10/11/20 07:35*	*10/13/20 02:30*	*1*
Nitrobenzene-d5 (Surr)	*63*		*36 - 120*	*10/11/20 07:35*	*10/13/20 02:30*	*1*
2-Fluorobiphenyl	*67*		*34 - 110*	*10/11/20 07:35*	*10/13/20 02:30*	*1*
2,4,6-Tribromophenol (Surr)	*99*		*40 - 145*	*10/11/20 07:35*	*10/13/20 02:30*	*1*
Terphenyl-d14	*83*		*40 - 145*	*10/11/20 07:35*	*10/13/20 02:30*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00044	U	0.00044	0.000073	mg/L		10/09/20 09:12	10/10/20 04:05	1
PCB-1221	0.00044	U	0.00044	0.00022	mg/L		10/09/20 09:12	10/10/20 04:05	1
PCB-1232	0.00044	U	0.00044	0.00022	mg/L		10/09/20 09:12	10/10/20 04:05	1
PCB-1242	0.00044	U	0.00044	0.00022	mg/L		10/09/20 09:12	10/10/20 04:05	1
PCB-1248	0.00044	U	0.00044	0.00022	mg/L		10/09/20 09:12	10/10/20 04:05	1
PCB-1254	0.00044	U	0.00044	0.00022	mg/L		10/09/20 09:12	10/10/20 04:05	1
PCB-1260	0.00044	U	0.00044	0.000077	mg/L		10/09/20 09:12	10/10/20 04:05	1
PCB-1262	0.00044	U	0.00044	0.00022	mg/L		10/09/20 09:12	10/10/20 04:05	1
PCB-1268	0.00044	U	0.00044	0.00022	mg/L		10/09/20 09:12	10/10/20 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*30 - 120*	*10/09/20 09:12*	*10/10/20 04:05*	*1*
DCB Decachlorobiphenyl	*111*		*30 - 140*	*10/09/20 09:12*	*10/10/20 04:05*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.097**	**J**	0.10	0.025	mg/L		10/14/20 08:12	10/19/20 15:09	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

Client Sample ID: NS-SUMP-100820

Lab Sample ID: 500-189063-1

Date Collected: 10/08/20 11:00
Date Received: 10/08/20 16:47

Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0025	J	0.0030	0.0013	mg/L		10/14/20 08:12	10/19/20 16:57	1
Arsenic	0.0014	B	0.0010	0.00023	mg/L		10/14/20 08:12	10/20/20 17:22	1
Barium	0.038		0.0025	0.00073	mg/L		10/14/20 08:12	10/19/20 15:09	1
Beryllium	0.0010	U	0.0010	0.00053	mg/L		10/14/20 08:12	10/19/20 16:57	1
Cadmium	0.00038	J	0.00050	0.00017	mg/L		10/14/20 08:12	10/19/20 16:57	1
Calcium	18	B	0.20	0.044	mg/L		10/14/20 08:12	10/19/20 15:09	1
Chromium	0.0050	U	0.0050	0.0011	mg/L		10/14/20 08:12	10/19/20 15:09	1
Cobalt	0.0010	U	0.0010	0.00040	mg/L		10/14/20 08:12	10/19/20 15:09	1
Copper	0.013	B	0.0020	0.00050	mg/L		10/14/20 08:12	10/19/20 15:09	1
Iron	0.36		0.10	0.047	mg/L		10/14/20 08:12	10/19/20 15:09	1
Lead	0.018		0.00050	0.00019	mg/L		10/14/20 08:12	10/19/20 15:09	1
Magnesium	10		0.20	0.049	mg/L		10/14/20 08:12	10/19/20 15:09	1
Manganese	0.029		0.0025	0.00079	mg/L		10/14/20 08:12	10/19/20 15:09	1
Nickel	0.0037		0.0020	0.00063	mg/L		10/14/20 08:12	10/19/20 15:09	1
Potassium	3.3	B	0.50	0.11	mg/L		10/14/20 08:12	10/19/20 15:09	1
Selenium	0.0025	U ^	0.0025	0.00098	mg/L		10/14/20 08:12	10/19/20 15:09	1
Silver	0.00050	U	0.00050	0.00012	mg/L		10/14/20 08:12	10/19/20 15:09	1
Sodium	6.9		0.20	0.077	mg/L		10/14/20 08:12	10/19/20 15:09	1
Thallium	0.0020	U	0.0020	0.00057	mg/L		10/14/20 08:12	10/19/20 15:09	1
Vanadium	0.0091		0.0050	0.0022	mg/L		10/14/20 08:12	10/19/20 15:09	1
Zinc	0.10		0.020	0.0069	mg/L		10/14/20 08:12	10/19/20 16:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000098	mg/L		10/19/20 09:10	10/20/20 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		99.0	99.0	Degrees F			10/22/20 12:50	1
corrosivity by pH	7.4	HF	0.2	0.2	SU			10/12/20 14:59	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

GC/MS VOA

Analysis Batch: 566660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	8260B	
MB 500-566660/6	Method Blank	Total/NA	Water	8260B	
LCS 500-566660/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 565923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	3510C	
MB 500-565923/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-565923/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 566131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	8270D	565923
MB 500-565923/1-A	Method Blank	Total/NA	Water	8270D	565923
LCS 500-565923/2-A	Lab Control Sample	Total/NA	Water	8270D	565923

GC Semi VOA

Prep Batch: 565773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	3510C	
MB 500-565773/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-565773/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-565773/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 565874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	8082A	565773
MB 500-565773/1-A	Method Blank	Total/NA	Water	8082A	565773
LCS 500-565773/4-A	Lab Control Sample	Total/NA	Water	8082A	565773
LCSD 500-565773/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	565773

Metals

Prep Batch: 566446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	3010A	
MB 500-566446/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-566446/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 500-566446/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Prep Batch: 567230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	7470A	
MB 500-567230/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-567230/25-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 567494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	7470A	567230

Metals (Continued)

Analysis Batch: 567494 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-567230/12-A	Method Blank	Total/NA	Water	7470A	567230
LCS 500-567230/25-A	Lab Control Sample	Total/NA	Water	7470A	567230

Analysis Batch: 567498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	6020A	566446
MB 500-566446/1-A	Method Blank	Total/NA	Water	6020A	566446
LCS 500-566446/2-A	Lab Control Sample	Total/NA	Water	6020A	566446
LCSD 500-566446/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	566446

Analysis Batch: 567501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	6020A	566446
MB 500-566446/1-A	Method Blank	Total/NA	Water	6020A	566446
LCS 500-566446/2-A	Lab Control Sample	Total/NA	Water	6020A	566446
LCSD 500-566446/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	566446

Analysis Batch: 567754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	6020A	566446
MB 500-566446/1-A	Method Blank	Total/NA	Water	6020A	566446
LCS 500-566446/2-A	Lab Control Sample	Total/NA	Water	6020A	566446
LCSD 500-566446/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	566446

General Chemistry

Analysis Batch: 566213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	9040C	
LCS 500-566213/2	Lab Control Sample	Total/NA	Water	9040C	
LCSD 500-566213/3	Lab Control Sample Dup	Total/NA	Water	9040C	
500-189063-1 DU	NS-SUMP-100820	Total/NA	Water	9040C	

Analysis Batch: 568068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189063-1	NS-SUMP-100820	Total/NA	Water	1010A	

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-126)	(75-120)	(72-124)	(75-120)
500-189063-1	NS-SUMP-100820	103	95	96	106
LCS 500-566660/4	Lab Control Sample	98	101	94	100
MB 500-566660/6	Method Blank	99	94	99	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(27-110)	(20-110)	(36-120)	(34-110)	(40-145)	(40-145)
500-189063-1	NS-SUMP-100820	50	29	63	67	99	83
LCS 500-565923/2-A	Lab Control Sample	50	36	61	61	103	89
MB 500-565923/1-A	Method Blank	52	31	60	61	99	93

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(30-120)	(30-140)
500-189063-1	NS-SUMP-100820	59	111
LCS 500-565773/4-A	Lab Control Sample	62	44
LCSD 500-565773/5-A	Lab Control Sample Dup	62	49
MB 500-565773/1-A	Method Blank	60	52

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-566660/6
Matrix: Water
Analysis Batch: 566660

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.0030	U	0.0030	0.00067	mg/L			10/15/20 11:13	1
Chloromethane	0.0010	U	0.0010	0.00032	mg/L			10/15/20 11:13	1
Vinyl chloride	0.0010	U	0.0010	0.00020	mg/L			10/15/20 11:13	1
Bromomethane	0.0030	U	0.0030	0.00080	mg/L			10/15/20 11:13	1
Chloroethane	0.0010	U	0.0010	0.00051	mg/L			10/15/20 11:13	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00043	mg/L			10/15/20 11:13	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00039	mg/L			10/15/20 11:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00046	mg/L			10/15/20 11:13	1
Acetone	0.010	U	0.010	0.0017	mg/L			10/15/20 11:13	1
Carbon disulfide	0.0020	U	0.0020	0.00045	mg/L			10/15/20 11:13	1
Methyl acetate	0.0050	U	0.0050	0.0020	mg/L			10/15/20 11:13	1
Methylene Chloride	0.00770		0.0050	0.0016	mg/L			10/15/20 11:13	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00035	mg/L			10/15/20 11:13	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00039	mg/L			10/15/20 11:13	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00041	mg/L			10/15/20 11:13	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00041	mg/L			10/15/20 11:13	1
Methyl Ethyl Ketone	0.0050	U	0.0050	0.0021	mg/L			10/15/20 11:13	1
Chloroform	0.0020	U	0.0020	0.00037	mg/L			10/15/20 11:13	1
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00038	mg/L			10/15/20 11:13	1
Cyclohexane	0.0010	U	0.0010	0.00049	mg/L			10/15/20 11:13	1
Carbon tetrachloride	0.0010	U	0.0010	0.00038	mg/L			10/15/20 11:13	1
Benzene	0.00050	U	0.00050	0.00015	mg/L			10/15/20 11:13	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00039	mg/L			10/15/20 11:13	1
Trichloroethene	0.00050	U	0.00050	0.00016	mg/L			10/15/20 11:13	1
Methylcyclohexane	0.0010	U	0.0010	0.00032	mg/L			10/15/20 11:13	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00043	mg/L			10/15/20 11:13	1
Bromodichloromethane	0.0010	U	0.0010	0.00037	mg/L			10/15/20 11:13	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00042	mg/L			10/15/20 11:13	1
methyl isobutyl ketone	0.0050	U	0.0050	0.0022	mg/L			10/15/20 11:13	1
Toluene	0.00050	U	0.00050	0.00015	mg/L			10/15/20 11:13	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00036	mg/L			10/15/20 11:13	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00035	mg/L			10/15/20 11:13	1
Tetrachloroethene	0.0010	U	0.0010	0.00037	mg/L			10/15/20 11:13	1
2-Hexanone	0.0050	U	0.0050	0.0016	mg/L			10/15/20 11:13	1
Dibromochloromethane	0.0010	U	0.0010	0.00049	mg/L			10/15/20 11:13	1
1,2-Dibromoethane	0.0010	U	0.0010	0.00039	mg/L			10/15/20 11:13	1
Chlorobenzene	0.0010	U	0.0010	0.00039	mg/L			10/15/20 11:13	1
Ethylbenzene	0.00050	U	0.00050	0.00018	mg/L			10/15/20 11:13	1
Xylenes, Total	0.0010	U	0.0010	0.00022	mg/L			10/15/20 11:13	1
Styrene	0.0010	U	0.0010	0.00039	mg/L			10/15/20 11:13	1
Bromoform	0.0010	U	0.0010	0.00048	mg/L			10/15/20 11:13	1
Isopropylbenzene	0.0010	U	0.0010	0.00039	mg/L			10/15/20 11:13	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00040	mg/L			10/15/20 11:13	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00040	mg/L			10/15/20 11:13	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00036	mg/L			10/15/20 11:13	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00033	mg/L			10/15/20 11:13	1
1,2-Dibromo-3-Chloropropane	0.0050	U	0.0050	0.0020	mg/L			10/15/20 11:13	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00034	mg/L			10/15/20 11:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-566660/6
Matrix: Water
Analysis Batch: 566660

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 126		10/15/20 11:13	1
Toluene-d8 (Surr)	94		75 - 120		10/15/20 11:13	1
4-Bromofluorobenzene (Surr)	99		72 - 124		10/15/20 11:13	1
Dibromofluoromethane	101		75 - 120		10/15/20 11:13	1

Lab Sample ID: LCS 500-566660/4
Matrix: Water
Analysis Batch: 566660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.0533		mg/L		107	40 - 159
Chloromethane	0.0500	0.0369		mg/L		74	56 - 152
Vinyl chloride	0.0500	0.0420		mg/L		84	64 - 126
Bromomethane	0.0500	0.0331		mg/L		66	40 - 152
Chloroethane	0.0500	0.0382		mg/L		76	48 - 136
Trichlorofluoromethane	0.0500	0.0403		mg/L		81	55 - 128
1,1-Dichloroethene	0.0500	0.0419		mg/L		84	67 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0417		mg/L		83	70 - 123
Acetone	0.0500	0.0358		mg/L		72	40 - 143
Carbon disulfide	0.0500	0.0386		mg/L		77	66 - 120
Methyl acetate	0.100	0.0722		mg/L		72	56 - 150
Methylene Chloride	0.0500	0.0494		mg/L		99	69 - 125
trans-1,2-Dichloroethene	0.0500	0.0438		mg/L		88	70 - 125
Methyl tert-butyl ether	0.0500	0.0376		mg/L		75	55 - 123
1,1-Dichloroethane	0.0500	0.0395		mg/L		79	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0434		mg/L		87	70 - 125
Methyl Ethyl Ketone	0.0500	0.0351		mg/L		70	46 - 144
Chloroform	0.0500	0.0413		mg/L		83	70 - 120
1,1,1-Trichloroethane	0.0500	0.0430		mg/L		86	70 - 125
Cyclohexane	0.0500	0.0387		mg/L		77	69 - 142
Carbon tetrachloride	0.0500	0.0431		mg/L		86	59 - 133
Benzene	0.0500	0.0425		mg/L		85	70 - 120
1,2-Dichloroethane	0.0500	0.0433		mg/L		87	68 - 127
Trichloroethene	0.0500	0.0508		mg/L		102	70 - 125
Methylcyclohexane	0.0500	0.0427		mg/L		85	70 - 120
1,2-Dichloropropane	0.0500	0.0423		mg/L		85	67 - 130
Bromodichloromethane	0.0500	0.0424		mg/L		85	69 - 120
cis-1,3-Dichloropropene	0.0500	0.0417		mg/L		83	64 - 127
methyl isobutyl ketone	0.0500	0.0337		mg/L		67	55 - 139
Toluene	0.0500	0.0454		mg/L		91	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0411		mg/L		82	62 - 128
1,1,2-Trichloroethane	0.0500	0.0467		mg/L		93	71 - 130
Tetrachloroethene	0.0500	0.0492		mg/L		98	70 - 128
2-Hexanone	0.0500	0.0386		mg/L		77	54 - 146
Dibromochloromethane	0.0500	0.0461		mg/L		92	68 - 125
1,2-Dibromoethane	0.0500	0.0471		mg/L		94	70 - 125
Chlorobenzene	0.0500	0.0470		mg/L		94	70 - 120
Ethylbenzene	0.0500	0.0435		mg/L		87	70 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-566660/4
Matrix: Water
Analysis Batch: 566660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	0.100	0.0835		mg/L		84	70 - 125
Styrene	0.0500	0.0487		mg/L		97	70 - 120
Bromoform	0.0500	0.0497		mg/L		99	56 - 132
Isopropylbenzene	0.0500	0.0433		mg/L		87	70 - 126
1,1,2,2-Tetrachloroethane	0.0500	0.0418		mg/L		84	62 - 140
1,3-Dichlorobenzene	0.0500	0.0462		mg/L		92	70 - 125
1,4-Dichlorobenzene	0.0500	0.0469		mg/L		94	70 - 120
1,2-Dichlorobenzene	0.0500	0.0450		mg/L		90	70 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0447		mg/L		89	56 - 123
1,2,4-Trichlorobenzene	0.0500	0.0428		mg/L		86	57 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 120*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-565923/1-A
Matrix: Water
Analysis Batch: 566131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565923

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	0.032	U	0.032	0.012	mg/L		10/11/20 07:35	10/13/20 01:34	1
Phenol	0.0040	U	0.0040	0.00054	mg/L		10/11/20 07:35	10/13/20 01:34	1
Bis(2-chloroethyl)ether	0.0016	U	0.0016	0.00023	mg/L		10/11/20 07:35	10/13/20 01:34	1
2-Chlorophenol	0.0040	U	0.0040	0.00045	mg/L		10/11/20 07:35	10/13/20 01:34	1
2-Methylphenol	0.0016	U	0.0016	0.00024	mg/L		10/11/20 07:35	10/13/20 01:34	1
2,2'-oxybis[1-chloropropane]	0.0016	U	0.0016	0.00030	mg/L		10/11/20 07:35	10/13/20 01:34	1
Acetophenone	0.0040	U	0.0040	0.00053	mg/L		10/11/20 07:35	10/13/20 01:34	1
N-Nitrosodi-n-propylamine	0.00040	U	0.00040	0.00012	mg/L		10/11/20 07:35	10/13/20 01:34	1
Hexachloroethane	0.0040	U	0.0040	0.00048	mg/L		10/11/20 07:35	10/13/20 01:34	1
Nitrobenzene	0.00080	U	0.00080	0.00036	mg/L		10/11/20 07:35	10/13/20 01:34	1
Isophorone	0.0016	U	0.0016	0.00030	mg/L		10/11/20 07:35	10/13/20 01:34	1
2-Nitrophenol	0.0080	U	0.0080	0.0020	mg/L		10/11/20 07:35	10/13/20 01:34	1
2,4-Dimethylphenol	0.0080	U	0.0080	0.0014	mg/L		10/11/20 07:35	10/13/20 01:34	1
Bis(2-chloroethoxy)methane	0.0016	U	0.0016	0.00023	mg/L		10/11/20 07:35	10/13/20 01:34	1
2,4-Dichlorophenol	0.0080	U	0.0080	0.0021	mg/L		10/11/20 07:35	10/13/20 01:34	1
Naphthalene	0.00080	U	0.00080	0.00025	mg/L		10/11/20 07:35	10/13/20 01:34	1
4-Chloroaniline	0.0080	U	0.0080	0.0016	mg/L		10/11/20 07:35	10/13/20 01:34	1
Hexachlorobutadiene	0.0040	U	0.0040	0.00041	mg/L		10/11/20 07:35	10/13/20 01:34	1
Caprolactam	0.0080	U	0.0080	0.0012	mg/L		10/11/20 07:35	10/13/20 01:34	1
4-Chloro-3-methylphenol	0.0080	U	0.0080	0.0018	mg/L		10/11/20 07:35	10/13/20 01:34	1
2-Methylnaphthalene	0.0016	U	0.0016	0.000052	mg/L		10/11/20 07:35	10/13/20 01:34	1
Hexachlorocyclopentadiene	0.016	U	0.016	0.0051	mg/L		10/11/20 07:35	10/13/20 01:34	1
2,4,6-Trichlorophenol	0.0040	U	0.0040	0.00057	mg/L		10/11/20 07:35	10/13/20 01:34	1
2,4,5-Trichlorophenol	0.0080	U	0.0080	0.0021	mg/L		10/11/20 07:35	10/13/20 01:34	1
1,1'-Biphenyl	0.0040	U	0.0040	0.00029	mg/L		10/11/20 07:35	10/13/20 01:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-565923/1-A
Matrix: Water
Analysis Batch: 566131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565923

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	0.0016	U	0.0016	0.00019	mg/L		10/11/20 07:35	10/13/20 01:34	1
2-Nitroaniline	0.0040	U	0.0040	0.0010	mg/L		10/11/20 07:35	10/13/20 01:34	1
Dimethyl phthalate	0.0040	U	0.0040	0.00025	mg/L		10/11/20 07:35	10/13/20 01:34	1
2,6-Dinitrotoluene	0.00080	U	0.00080	0.000059	mg/L		10/11/20 07:35	10/13/20 01:34	1
Acenaphthylene	0.00080	U	0.00080	0.00021	mg/L		10/11/20 07:35	10/13/20 01:34	1
3-Nitroaniline	0.0080	U	0.0080	0.0014	mg/L		10/11/20 07:35	10/13/20 01:34	1
Acenaphthene	0.00080	U	0.00080	0.00025	mg/L		10/11/20 07:35	10/13/20 01:34	1
2,4-Dinitrophenol	0.016	U	0.016	0.0069	mg/L		10/11/20 07:35	10/13/20 01:34	1
4-Nitrophenol	0.016	U	0.016	0.0059	mg/L		10/11/20 07:35	10/13/20 01:34	1
Dibenzofuran	0.0016	U	0.0016	0.00021	mg/L		10/11/20 07:35	10/13/20 01:34	1
2,4-Dinitrotoluene	0.00080	U	0.00080	0.00020	mg/L		10/11/20 07:35	10/13/20 01:34	1
Diethyl phthalate	0.0040	U	0.0040	0.00029	mg/L		10/11/20 07:35	10/13/20 01:34	1
Fluorene	0.00080	U	0.00080	0.00020	mg/L		10/11/20 07:35	10/13/20 01:34	1
4-Chlorophenyl phenyl ether	0.0040	U	0.0040	0.00051	mg/L		10/11/20 07:35	10/13/20 01:34	1
4-Nitroaniline	0.0080	U	0.0080	0.0013	mg/L		10/11/20 07:35	10/13/20 01:34	1
4,6-Dinitro-2-methylphenol	0.016	U	0.016	0.0047	mg/L		10/11/20 07:35	10/13/20 01:34	1
N-Nitrosodiphenylamine	0.0016	U	0.0016	0.00030	mg/L		10/11/20 07:35	10/13/20 01:34	1
4-Bromophenyl phenyl ether	0.0040	U	0.0040	0.00043	mg/L		10/11/20 07:35	10/13/20 01:34	1
Hexachlorobenzene	0.00040	U	0.00040	0.000064	mg/L		10/11/20 07:35	10/13/20 01:34	1
Atrazine	0.0040	U	0.0040	0.00050	mg/L		10/11/20 07:35	10/13/20 01:34	1
Pentachlorophenol	0.016	U	0.016	0.0032	mg/L		10/11/20 07:35	10/13/20 01:34	1
Phenanthrene	0.00080	U	0.00080	0.00024	mg/L		10/11/20 07:35	10/13/20 01:34	1
Anthracene	0.00080	U	0.00080	0.00027	mg/L		10/11/20 07:35	10/13/20 01:34	1
Carbazole	0.0040	U	0.0040	0.00028	mg/L		10/11/20 07:35	10/13/20 01:34	1
Di-n-butyl phthalate	0.0040	U	0.0040	0.00058	mg/L		10/11/20 07:35	10/13/20 01:34	1
Fluoranthene	0.00080	U	0.00080	0.00036	mg/L		10/11/20 07:35	10/13/20 01:34	1
Pyrene	0.00080	U	0.00080	0.00034	mg/L		10/11/20 07:35	10/13/20 01:34	1
Butyl benzyl phthalate	0.0016	U	0.0016	0.00038	mg/L		10/11/20 07:35	10/13/20 01:34	1
3,3'-Dichlorobenzidine	0.0040	U	0.0040	0.0014	mg/L		10/11/20 07:35	10/13/20 01:34	1
Benzo[a]anthracene	0.00016	U	0.00016	0.000045	mg/L		10/11/20 07:35	10/13/20 01:34	1
Chrysene	0.00016	U	0.00016	0.000055	mg/L		10/11/20 07:35	10/13/20 01:34	1
Bis(2-ethylhexyl) phthalate	0.0080	U	0.0080	0.0014	mg/L		10/11/20 07:35	10/13/20 01:34	1
Di-n-octyl phthalate	0.0080	U	0.0080	0.00084	mg/L		10/11/20 07:35	10/13/20 01:34	1
Benzo[b]fluoranthene	0.00016	U	0.00016	0.000065	mg/L		10/11/20 07:35	10/13/20 01:34	1
Benzo[k]fluoranthene	0.00016	U	0.00016	0.000051	mg/L		10/11/20 07:35	10/13/20 01:34	1
Benzo[a]pyrene	0.00016	U	0.00016	0.000079	mg/L		10/11/20 07:35	10/13/20 01:34	1
Indeno[1,2,3-cd]pyrene	0.00016	U	0.00016	0.000060	mg/L		10/11/20 07:35	10/13/20 01:34	1
Dibenz(a,h)anthracene	0.00024	U	0.00024	0.000041	mg/L		10/11/20 07:35	10/13/20 01:34	1
Benzo[g,h,i]perylene	0.00080	U	0.00080	0.00030	mg/L		10/11/20 07:35	10/13/20 01:34	1
3 & 4 Methylphenol	0.0016	U	0.0016	0.00036	mg/L		10/11/20 07:35	10/13/20 01:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*52*		*27 - 110*	*10/11/20 07:35*	*10/13/20 01:34*	*1*
Phenol-d5 (Surr)	*31*		*20 - 110*	*10/11/20 07:35*	*10/13/20 01:34*	*1*
Nitrobenzene-d5 (Surr)	*60*		*36 - 120*	*10/11/20 07:35*	*10/13/20 01:34*	*1*
2-Fluorobiphenyl	*61*		*34 - 110*	*10/11/20 07:35*	*10/13/20 01:34*	*1*
2,4,6-Tribromophenol (Surr)	*99*		*40 - 145*	*10/11/20 07:35*	*10/13/20 01:34*	*1*
Terphenyl-d14	*93*		*40 - 145*	*10/11/20 07:35*	*10/13/20 01:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-565923/2-A
Matrix: Water
Analysis Batch: 566131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	0.0320	0.0133		mg/L		42	33 - 100
Bis(2-chloroethyl)ether	0.0320	0.0201		mg/L		63	54 - 112
2-Chlorophenol	0.0320	0.0207		mg/L		65	59 - 110
2-Methylphenol	0.0320	0.0197		mg/L		61	53 - 115
2,2'-oxybis[1-chloropropane]	0.0320	0.0153		mg/L		48	38 - 140
Acetophenone	0.0320	0.0220		mg/L		69	55 - 118
N-Nitrosodi-n-propylamine	0.0320	0.0217		mg/L		68	47 - 131
Hexachloroethane	0.0320	0.0146		mg/L		46	20 - 100
Nitrobenzene	0.0320	0.0206		mg/L		64	54 - 121
Isophorone	0.0320	0.0239		mg/L		75	54 - 127
2-Nitrophenol	0.0320	0.0245		mg/L		77	59 - 115
2,4-Dimethylphenol	0.0320	0.0216		mg/L		68	51 - 115
Bis(2-chloroethoxy)methane	0.0320	0.0227		mg/L		71	59 - 118
2,4-Dichlorophenol	0.0320	0.0244		mg/L		76	58 - 120
Naphthalene	0.0320	0.0167		mg/L		52	36 - 110
4-Chloroaniline	0.0320	0.0249		mg/L		78	35 - 128
Hexachlorobutadiene	0.0320	0.0158		mg/L		49	20 - 100
Caprolactam	0.0320	0.0172		mg/L		54	32 - 100
4-Chloro-3-methylphenol	0.0320	0.0256		mg/L		80	64 - 128
2-Methylnaphthalene	0.0320	0.0174		mg/L		54	34 - 110
Hexachlorocyclopentadiene	0.0320	0.0153	J	mg/L		48	10 - 105
2,4,6-Trichlorophenol	0.0320	0.0264		mg/L		82	62 - 121
2,4,5-Trichlorophenol	0.0320	0.0277		mg/L		86	63 - 124
1,1'-Biphenyl	0.0320	0.0186		mg/L		58	40 - 110
2-Chloronaphthalene	0.0320	0.0177		mg/L		55	39 - 110
2-Nitroaniline	0.0320	0.0247		mg/L		77	59 - 138
Dimethyl phthalate	0.0320	0.0288		mg/L		90	63 - 122
2,6-Dinitrotoluene	0.0320	0.0298		mg/L		93	63 - 129
Acenaphthylene	0.0320	0.0202		mg/L		63	47 - 113
3-Nitroaniline	0.0320	0.0236		mg/L		74	47 - 123
Acenaphthene	0.0320	0.0201		mg/L		63	46 - 110
2,4-Dinitrophenol	0.0640	0.0545		mg/L		85	37 - 130
4-Nitrophenol	0.0640	0.0328		mg/L		51	20 - 110
Dibenzofuran	0.0320	0.0212		mg/L		66	51 - 110
2,4-Dinitrotoluene	0.0320	0.0317		mg/L		99	63 - 129
Diethyl phthalate	0.0320	0.0298		mg/L		93	62 - 123
Fluorene	0.0320	0.0233		mg/L		73	53 - 120
4-Chlorophenyl phenyl ether	0.0320	0.0224		mg/L		70	48 - 116
4-Nitroaniline	0.0320	0.0226		mg/L		71	35 - 110
4,6-Dinitro-2-methylphenol	0.0640	0.0579		mg/L		91	50 - 129
N-Nitrosodiphenylamine	0.0320	0.0247		mg/L		77	66 - 120
4-Bromophenyl phenyl ether	0.0320	0.0235		mg/L		73	58 - 120
Hexachlorobenzene	0.0320	0.0252		mg/L		79	61 - 126
Atrazine	0.0320	0.0347		mg/L		108	50 - 120
Pentachlorophenol	0.0640	0.0553		mg/L		86	42 - 148
Phenanthrene	0.0320	0.0251		mg/L		78	65 - 120
Anthracene	0.0320	0.0261		mg/L		82	67 - 118
Carbazole	0.0320	0.0277		mg/L		87	61 - 145

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-565923/2-A
Matrix: Water
Analysis Batch: 566131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-butyl phthalate	0.0320	0.0307		mg/L		96	69 - 129
Fluoranthene	0.0320	0.0312		mg/L		98	68 - 126
Pyrene	0.0320	0.0275		mg/L		86	70 - 126
Butyl benzyl phthalate	0.0320	0.0315		mg/L		98	68 - 135
3,3'-Dichlorobenzidine	0.0320	0.0225		mg/L		70	60 - 132
Benzo[a]anthracene	0.0320	0.0303		mg/L		95	70 - 126
Chrysene	0.0320	0.0304		mg/L		95	68 - 129
Bis(2-ethylhexyl) phthalate	0.0320	0.0316		mg/L		99	69 - 136
Di-n-octyl phthalate	0.0320	0.0376		mg/L		117	68 - 137
Benzo[b]fluoranthene	0.0320	0.0355		mg/L		111	69 - 136
Benzo[k]fluoranthene	0.0320	0.0348		mg/L		109	70 - 133
Benzo[a]pyrene	0.0320	0.0305		mg/L		95	70 - 135
Indeno[1,2,3-cd]pyrene	0.0320	0.0348		mg/L		109	65 - 133
Dibenz(a,h)anthracene	0.0320	0.0350		mg/L		109	70 - 134
Benzo[g,h,i]perylene	0.0320	0.0328		mg/L		103	70 - 135
3 & 4 Methylphenol	0.0320	0.0211		mg/L		66	50 - 116

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*50*		*27 - 110*
Phenol-d5 (Surr)	*36*		*20 - 110*
Nitrobenzene-d5 (Surr)	*61*		*36 - 120*
2-Fluorobiphenyl	*61*		*34 - 110*
2,4,6-Tribromophenol (Surr)	*103*		*40 - 145*
Terphenyl-d14	*89*		*40 - 145*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-565773/1-A
Matrix: Water
Analysis Batch: 565874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00040	U	0.00040	0.000067	mg/L		10/09/20 09:12	10/09/20 20:50	1
PCB-1221	0.00040	U	0.00040	0.00020	mg/L		10/09/20 09:12	10/09/20 20:50	1
PCB-1232	0.00040	U	0.00040	0.00020	mg/L		10/09/20 09:12	10/09/20 20:50	1
PCB-1242	0.00040	U	0.00040	0.00020	mg/L		10/09/20 09:12	10/09/20 20:50	1
PCB-1248	0.00040	U	0.00040	0.00020	mg/L		10/09/20 09:12	10/09/20 20:50	1
PCB-1254	0.00040	U	0.00040	0.00020	mg/L		10/09/20 09:12	10/09/20 20:50	1
PCB-1260	0.00040	U	0.00040	0.000070	mg/L		10/09/20 09:12	10/09/20 20:50	1
PCB-1262	0.00040	U	0.00040	0.00020	mg/L		10/09/20 09:12	10/09/20 20:50	1
PCB-1268	0.00040	U	0.00040	0.00020	mg/L		10/09/20 09:12	10/09/20 20:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 120*	*10/09/20 09:12*	*10/09/20 20:50*	*1*
DCB Decachlorobiphenyl	*52*		*30 - 140*	*10/09/20 09:12*	*10/09/20 20:50*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-565773/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 565874 — **Prep Batch: 565773**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.00400	0.00331		mg/L		83	56 - 120		
PCB-1260			0.00400	0.00395		mg/L		99	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*30 - 120*
DCB Decachlorobiphenyl	*44*		*30 - 140*

Lab Sample ID: LCSD 500-565773/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 565874 — **Prep Batch: 565773**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.00400	0.00343		mg/L		86	56 - 120	3	20
PCB-1260			0.00400	0.00405		mg/L		101	53 - 137	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*30 - 120*
DCB Decachlorobiphenyl	*49*		*30 - 140*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-566446/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 567498 — **Prep Batch: 566446**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.10	U	0.10	0.025	mg/L		10/14/20 08:12	10/19/20 14:59	1
Barium	0.0025	U	0.0025	0.00073	mg/L		10/14/20 08:12	10/19/20 14:59	1
Calcium	0.0550	J	0.20	0.044	mg/L		10/14/20 08:12	10/19/20 14:59	1
Chromium	0.0050	U	0.0050	0.0011	mg/L		10/14/20 08:12	10/19/20 14:59	1
Cobalt	0.0010	U	0.0010	0.00040	mg/L		10/14/20 08:12	10/19/20 14:59	1
Copper	0.000706	J	0.0020	0.00050	mg/L		10/14/20 08:12	10/19/20 14:59	1
Iron	0.10	U	0.10	0.047	mg/L		10/14/20 08:12	10/19/20 14:59	1
Lead	0.00050	U	0.00050	0.00019	mg/L		10/14/20 08:12	10/19/20 14:59	1
Magnesium	0.20	U	0.20	0.049	mg/L		10/14/20 08:12	10/19/20 14:59	1
Manganese	0.0025	U	0.0025	0.00079	mg/L		10/14/20 08:12	10/19/20 14:59	1
Nickel	0.0020	U	0.0020	0.00063	mg/L		10/14/20 08:12	10/19/20 14:59	1
Potassium	0.447	J	0.50	0.11	mg/L		10/14/20 08:12	10/19/20 14:59	1
Selenium	0.0025	U ^	0.0025	0.00098	mg/L		10/14/20 08:12	10/19/20 14:59	1
Silver	0.00050	U	0.00050	0.00012	mg/L		10/14/20 08:12	10/19/20 14:59	1
Sodium	0.20	U	0.20	0.077	mg/L		10/14/20 08:12	10/19/20 14:59	1
Thallium	0.0020	U	0.0020	0.00057	mg/L		10/14/20 08:12	10/19/20 14:59	1
Vanadium	0.0050	U	0.0050	0.0022	mg/L		10/14/20 08:12	10/19/20 14:59	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-566446/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 567501 — **Prep Batch: 566446**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0030	U	0.0030	0.0013	mg/L		10/14/20 08:12	10/19/20 16:47	1
Beryllium	0.0010	U	0.0010	0.00053	mg/L		10/14/20 08:12	10/19/20 16:47	1
Cadmium	0.00050	U	0.00050	0.00017	mg/L		10/14/20 08:12	10/19/20 16:47	1
Zinc	0.020	U	0.020	0.0069	mg/L		10/14/20 08:12	10/19/20 16:47	1

Lab Sample ID: MB 500-566446/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 567754 — **Prep Batch: 566446**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000905	J	0.0010	0.00023	mg/L		10/14/20 08:12	10/20/20 17:12	1

Lab Sample ID: LCS 500-566446/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 567498 — **Prep Batch: 566446**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2.00	2.38		mg/L		119	80 - 120
Barium	2.00	2.11		mg/L		105	80 - 120
Calcium	10.0	9.62		mg/L		96	80 - 120
Chromium	0.200	0.186		mg/L		93	80 - 120
Cobalt	0.500	0.474		mg/L		95	80 - 120
Copper	0.250	0.279		mg/L		111	80 - 120
Iron	1.00	1.01		mg/L		101	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Magnesium	10.0	11.3		mg/L		113	80 - 120
Manganese	0.500	0.520		mg/L		104	80 - 120
Nickel	0.500	0.474		mg/L		95	80 - 120
Potassium	10.0	11.3		mg/L		113	80 - 120
Selenium	0.100	0.0950	^	mg/L		95	80 - 120
Silver	0.0500	0.0523		mg/L		105	80 - 120
Sodium	10.0	11.3		mg/L		113	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120
Vanadium	0.500	0.478		mg/L		96	80 - 120

Lab Sample ID: LCS 500-566446/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 567501 — **Prep Batch: 566446**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0531		mg/L		106	80 - 120
Cadmium	0.0500	0.0571		mg/L		114	80 - 120
Zinc	0.500	0.564		mg/L		113	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-566446/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 567754 — **Prep Batch: 566446**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCSD 500-566446/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 567498 — **Prep Batch: 566446**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	2.00	2.07		mg/L		103	80 - 120	14	20
Barium	2.00	1.90		mg/L		95	80 - 120	10	20
Calcium	10.0	8.60		mg/L		86	80 - 120	11	20
Chromium	0.200	0.166		mg/L		83	80 - 120	11	20
Cobalt	0.500	0.421		mg/L		84	80 - 120	12	20
Copper	0.250	0.255		mg/L		102	80 - 120	9	20
Iron	1.00	0.891		mg/L		89	80 - 120	12	20
Lead	0.100	0.0926		mg/L		93	80 - 120	11	20
Magnesium	10.0	10.1		mg/L		101	80 - 120	11	20
Manganese	0.500	0.475		mg/L		95	80 - 120	9	20
Nickel	0.500	0.417		mg/L		83	80 - 120	13	20
Potassium	10.0	9.99		mg/L		100	80 - 120	12	20
Selenium	0.100	0.0860	^	mg/L		86	80 - 120	10	20
Silver	0.0500	0.0486		mg/L		97	80 - 120	7	20
Sodium	10.0	10.2		mg/L		102	80 - 120	10	20
Thallium	0.100	0.0942		mg/L		94	80 - 120	10	20
Vanadium	0.500	0.432		mg/L		86	80 - 120	10	20

Lab Sample ID: LCSD 500-566446/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 567501 — **Prep Batch: 566446**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.500	0.438		mg/L		88	80 - 120	17	20
Beryllium	0.0500	0.0453		mg/L		91	80 - 120	16	20
Cadmium	0.0500	0.0474		mg/L		95	80 - 120	19	20
Zinc	0.500	0.475		mg/L		95	80 - 120	17	20

Lab Sample ID: LCSD 500-566446/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 567754 — **Prep Batch: 566446**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.100	0.0964		mg/L		96	80 - 120	9	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-567230/12-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 567494 — **Prep Batch: 567230**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000098	mg/L		10/19/20 09:10	10/20/20 08:03	1

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 500-567230/25-A
Matrix: Water
Analysis Batch: 567494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567230

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00200	0.00168		mg/L		84	80 - 120		

Method: 9040C - pH

Lab Sample ID: 500-189063-1 DU
Matrix: Water
Analysis Batch: 566213

Client Sample ID: NS-SUMP-100820
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
corrosivity by pH	7.4	HF		7.4		SU				0.3	

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

Client Sample ID: NS-SUMP-100820

Date Collected: 10/08/20 11:00
Date Received: 10/08/20 16:47

Lab Sample ID: 500-189063-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	566660	10/15/20 17:55	PMF	TAL CHI
Total/NA	Prep	3510C			565923	10/11/20 07:35	CMC	TAL CHI
Total/NA	Analysis	8270D		1	566131	10/13/20 02:30	SS	TAL CHI
Total/NA	Prep	3510C			565773	10/09/20 09:12	CLL	TAL CHI
Total/NA	Analysis	8082A		1	565874	10/10/20 04:05	SS	TAL CHI
Total/NA	Prep	3010A			566446	10/14/20 08:12	LMN	TAL CHI
Total/NA	Analysis	6020A		1	567501	10/19/20 16:57	FXG	TAL CHI
Total/NA	Prep	3010A			566446	10/14/20 08:12	LMN	TAL CHI
Total/NA	Analysis	6020A		1	567754	10/20/20 17:22	FXG	TAL CHI
Total/NA	Prep	3010A			566446	10/14/20 08:12	LMN	TAL CHI
Total/NA	Analysis	6020A		1	567498	10/19/20 15:09	FXG	TAL CHI
Total/NA	Prep	7470A			567230	10/19/20 09:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	567494	10/20/20 09:01	MJG	TAL CHI
Total/NA	Analysis	1010A		1	568068		MS	TAL CHI
					(Start)	10/22/20 12:50		
					(End)	10/22/20 14:11		
Total/NA	Analysis	9040C		1	566213	10/12/20 14:59	SMO	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Nelson Knitting

Job ID: 500-189063-1

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1010A		Water	Flashpoint
8082A	3510C	Water	PCB-1262
8082A	3510C	Water	PCB-1268
8260B		Water	Cyclohexane
8260B		Water	Methyl acetate
8260B		Water	Methylcyclohexane
8270D	3510C	Water	1,1'-Biphenyl
8270D	3510C	Water	Atrazine
8270D	3510C	Water	Benzaldehyde
8270D	3510C	Water	Caprolactam

Indiana	State	C-IL-02	06-29-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1010A		Water	Flashpoint
6020A	3010A	Water	Aluminum
6020A	3010A	Water	Antimony
6020A	3010A	Water	Arsenic
6020A	3010A	Water	Barium
6020A	3010A	Water	Beryllium
6020A	3010A	Water	Cadmium
6020A	3010A	Water	Calcium
6020A	3010A	Water	Chromium
6020A	3010A	Water	Cobalt
6020A	3010A	Water	Copper
6020A	3010A	Water	Iron
6020A	3010A	Water	Lead
6020A	3010A	Water	Magnesium
6020A	3010A	Water	Manganese
6020A	3010A	Water	Nickel
6020A	3010A	Water	Potassium
6020A	3010A	Water	Selenium
6020A	3010A	Water	Silver
6020A	3010A	Water	Sodium
6020A	3010A	Water	Thallium
6020A	3010A	Water	Vanadium
6020A	3010A	Water	Zinc
7470A	7470A	Water	Mercury
8082A	3510C	Water	PCB-1016
8082A	3510C	Water	PCB-1221
8082A	3510C	Water	PCB-1232
8082A	3510C	Water	PCB-1242
8082A	3510C	Water	PCB-1248
8082A	3510C	Water	PCB-1254
8082A	3510C	Water	PCB-1260

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Indiana	State	C-IL-02	06-29-21

8082A	3510C	Water	PCB-1262
8082A	3510C	Water	PCB-1268
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,4-Dichlorobenzene
8260B		Water	2-Hexanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Cyclohexane
8260B		Water	Dibromochloromethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Isopropylbenzene
8260B		Water	Methyl acetate
8260B		Water	Methyl Ethyl Ketone
8260B		Water	methyl isobutyl ketone
8260B		Water	Methyl tert-butyl ether
8260B		Water	Methylcyclohexane
8260B		Water	Methylene Chloride
8260B		Water	Styrene
8260B		Water	Tetrachloroethene
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
Indiana		State	C-IL-02	06-29-21
8260B		Water	Xylenes, Total	
8270D	3510C	Water	1,1'-Biphenyl	
8270D	3510C	Water	2,2'-oxybis[1-chloropropane]	
8270D	3510C	Water	2,4,5-Trichlorophenol	
8270D	3510C	Water	2,4,6-Trichlorophenol	
8270D	3510C	Water	2,4-Dichlorophenol	
8270D	3510C	Water	2,4-Dimethylphenol	
8270D	3510C	Water	2,4-Dinitrophenol	
8270D	3510C	Water	2,4-Dinitrotoluene	
8270D	3510C	Water	2,6-Dinitrotoluene	
8270D	3510C	Water	2-Chloronaphthalene	
8270D	3510C	Water	2-Chlorophenol	
8270D	3510C	Water	2-Methylnaphthalene	
8270D	3510C	Water	2-Methylphenol	
8270D	3510C	Water	2-Nitroaniline	
8270D	3510C	Water	2-Nitrophenol	
8270D	3510C	Water	3 & 4 Methylphenol	
8270D	3510C	Water	3,3'-Dichlorobenzidine	
8270D	3510C	Water	3-Nitroaniline	
8270D	3510C	Water	4,6-Dinitro-2-methylphenol	
8270D	3510C	Water	4-Bromophenyl phenyl ether	
8270D	3510C	Water	4-Chloro-3-methylphenol	
8270D	3510C	Water	4-Chloroaniline	
8270D	3510C	Water	4-Chlorophenyl phenyl ether	
8270D	3510C	Water	4-Nitroaniline	
8270D	3510C	Water	4-Nitrophenol	
8270D	3510C	Water	Acenaphthene	
8270D	3510C	Water	Acenaphthylene	
8270D	3510C	Water	Acetophenone	
8270D	3510C	Water	Anthracene	
8270D	3510C	Water	Atrazine	
8270D	3510C	Water	Benzaldehyde	
8270D	3510C	Water	Benzo[a]anthracene	
8270D	3510C	Water	Benzo[a]pyrene	
8270D	3510C	Water	Benzo[b]fluoranthene	
8270D	3510C	Water	Benzo[g,h,i]perylene	
8270D	3510C	Water	Benzo[k]fluoranthene	
8270D	3510C	Water	Bis(2-chloroethoxy)methane	
8270D	3510C	Water	Bis(2-chloroethyl)ether	
8270D	3510C	Water	Bis(2-ethylhexyl) phthalate	
8270D	3510C	Water	Butyl benzyl phthalate	
8270D	3510C	Water	Caprolactam	
8270D	3510C	Water	Carbazole	
8270D	3510C	Water	Chrysene	
8270D	3510C	Water	Dibenz(a,h)anthracene	
8270D	3510C	Water	Dibenzofuran	
8270D	3510C	Water	Diethyl phthalate	
8270D	3510C	Water	Dimethyl phthalate	
8270D	3510C	Water	Di-n-butyl phthalate	

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Indiana	State	C-IL-02	06-29-21

8270D	3510C	Water	Di-n-octyl phthalate
8270D	3510C	Water	Fluoranthene
8270D	3510C	Water	Fluorene
8270D	3510C	Water	Hexachlorobenzene
8270D	3510C	Water	Hexachlorobutadiene
8270D	3510C	Water	Hexachlorocyclopentadiene
8270D	3510C	Water	Hexachloroethane
8270D	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D	3510C	Water	Isophorone
8270D	3510C	Water	Naphthalene
8270D	3510C	Water	Nitrobenzene
8270D	3510C	Water	N-Nitrosodi-n-propylamine
8270D	3510C	Water	N-Nitrosodiphenylamine
8270D	3510C	Water	Pentachlorophenol
8270D	3510C	Water	Phenanthrene
8270D	3510C	Water	Phenol
8270D	3510C	Water	Pyrene
9040C		Water	corrosivity by pH

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1010A		Water	Flashpoint
8082A	3510C	Water	PCB-1262
8082A	3510C	Water	PCB-1268
8260B		Water	Cyclohexane
8260B		Water	Methyl acetate
8260B		Water	Methylcyclohexane
8270D	3510C	Water	1,1'-Biphenyl
8270D	3510C	Water	Atrazine
8270D	3510C	Water	Benzaldehyde
8270D	3510C	Water	Caprolactam

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-85900-38821.2
Client Contact: Andre Baker	Phone:	E-Mail: Jim.Knapp@Eurofinset.com		Page: Page 2 of 2
Company: Tetra Tech EM Inc.				Job #: 500 - 189063
Address: 1 South Wacker Drive 37 Floor Ste. 3700	Due Date Requested:			
City: Chicago	TAT Requested (days): STANDARD			
State, Zip: IL, 60606				
Phone:	PO #: 1168715/ETA-17			
Email: Andre.Baker@tetratech.com	WO #:			
Project Name: Nelson Knitting	Project #: 50018128			
Site	SSOW#:			

Analysis Requested

500-189063 COC

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SVOC's	PCB's	TAL metals	VOC's	PH/Flash	Total Number of containers	Special Instructions/Note:
					Preservation Code:									
					Solid									
1	NS-Sump-100820	10-8-20	1100		Water			X	+	+	+	+		4 Bottle, 1 plastic, 3 vocs
					Water									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10-08-2020 16:47		Paula Buckley	10/8/20 1647	TA
Relinquished by	Date/Time:	Company	Received by.	Date/Time:	Company
Relinquished by.	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 11.4 client drop off 4898

Login Sample Receipt Checklist

Client: Tetra Tech EM Inc.

Job Number: 500-189063-1

Login Number: 189063
List Number: 1
Creator: Buckley, Paula M

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	11.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-189383-1
Client Project/Site: Nelson Knitting

For:
Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Andre Baker

Authorized for release by:
10/15/2020 5:02:51 PM

Jim Knapp, Project Manager II
(630)758-0262
Jim.Knapp@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Report for:

Jim Knapp
TestAmerica-University Park, IL
2417 Bond St.
University Park, IL 60466

Regarding: Project: Nelson Knitting RS; Nelson Knitting RS; 500-189383
EML ID: 2500188

Approved by:

Approved Signatory
Balu Krishnan

Dates of Analysis:
Asbestos-airborne fiber count (NIOSH 7400): 10-15-2020

Service SOPs: Asbestos-airborne fiber count (NIOSH 7400) (EM-AS-S-1260)
AIHA-LAP, LLC accredited service, Lab ID #173067

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received. Sample air volume is supplied by the client.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Eurofins EMLab P&K
6301 NW 5th way, Suite#: 1410, Ft. Lauderdale, FL 33309
(866) 871-1984 Fax (954) 776-8485 www.emlab.com

Client: TestAmerica-University Park, IL
C/O: Jim Knapp
Re: Nelson Knitting RS; Nelson Knitting RS; 500-189383

Date of Sampling: 10-08-2020
Date of Receipt: 10-12-2020
Date of Report: 10-15-2020

ASBESTOS AND OTHER FIBERS BY PCM: NIOSH 7400 METHOD

Lab ID-Version‡	Volume (liters)	Fibers Detected	Fields Read	Fibers/mm²	95% UCL*	Fibers per CC
Location: NS-AA-001-20201008, West Entrance HF			Comments:			
11912569-1	2,216	< 5.5	100	< 7	< 0.001 (Sr = N/A)	< 0.001
Location: NS-AA-002-20201008, East Access Point HF			Comments:			
11912570-1	2,620.95	6	100	7.64	0.004 (Sr = 0.45)	0.001
Location: NS-AA-003-20201008, Main Floor			Comments:			
11912571-1	1,280.94	< 5.5	100	< 7	< 0.002 (Sr = N/A)	< 0.002
Location: NS-AA-004-20201008, Basement Main Floor HF			Comments:			
11912572-1	1,404.25	< 5.5	100	< 7	< 0.002 (Sr = N/A)	< 0.002
Location: NS-AA-005-20201008, Boiler HF			Comments:			
11912573-1	1,318.1	32	100	40.76	0.039 (Sr = 0.45)	0.012
Location: NS-AA-006-20201008, Main Floor South HF			Comments:			
11912574-1	1,455.075	< 5.5	100	< 7	< 0.002 (Sr = N/A)	< 0.002
Location: NS-AA-007-20201008, West Entrance LF			Comments:			
11912575-1	705.6	< 5.5	100	< 7	< 0.004 (Sr = N/A)	< 0.004
Location: NS-AA-008-20201008, Main Floor LF			Comments:			
11912576-1	676.36	< 5.5	100	< 7	< 0.004 (Sr = N/A)	< 0.004
Location: NS-AA-009-20201008, Basement Main Floor LF			Comments:			
11912577-1	601.87	< 5.5	100	< 7	< 0.004 (Sr = N/A)	< 0.004
Location: NS-AA-010-20201008, Boiler LF			Comments:			
11912578-1	598.5	19.5	100	24.84	0.053 (Sr = 0.45)	0.016

Interpretation is left to the company and/or persons who conducted the field work.
Field blanks, if submitted with the project, have been used to correct the data. Omission of 2 field blank samples should be considered a deviation from the NIOSH 7400 method.
Reporting limit is calculated using a minimum detection limit of 7 fibers/mm2.
* Upper 95% Confidence Limit for fibers/cc, calculated using a relative standard deviation value (intralaboratory Sr) mentioned above.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
6301 NW 5th way, Suite#: 1410, Ft. Lauderdale, FL 33309
(866) 871-1984 Fax (954) 776-8485 www.emlab.com

Client: TestAmerica-University Park, IL
C/O: Jim Knapp
Re: Nelson Knitting RS; Nelson Knitting RS; 500-189383

Date of Sampling: 10-08-2020
Date of Receipt: 10-12-2020
Date of Report: 10-15-2020

ASBESTOS AND OTHER FIBERS BY PCM: NIOSH 7400 METHOD

Lab ID-Version‡	Volume (liters)	Fibers Detected	Fields Read	Fibers/mm²	95% UCL*	Fibers per CC
Location: NS-AA-011-20201008, Main Floor South LF					Comments:	
11912579-1	724.275	< 5.5	100	< 7	< 0.004 (Sr = N/A)	< 0.004
Location: NS-AA-012-20201008, Field Blank					Comments:	
11912725-1	0	< 5.5	100	< 7	N/A (Sr = N/A)	N/A

Interpretation is left to the company and/or persons who conducted the field work.
Field blanks, if submitted with the project, have been used to correct the data. Omission of 2 field blank samples should be considered a deviation from the NIOSH 7400 method.
Reporting limit is calculated using a minimum detection limit of 7 fibers/mm2.
* Upper 95% Confidence Limit for fibers/cc, calculated using a relative standard deviation value (intralaboratory Sr) mentioned above.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

ASBESTOS

eurofins | CEI

CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	
ECEI Lab Code:	002500188
ECEI Lab I.D. Range:	

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Ande Baker
Company: Tetra Tech	Email / Tel: 630.379.3749
Address: 1 South Wacker Drive Suite 3700	Project Name: Nelson Knitting RS
	Project ID#:
Email: Andre.baker@tetratech.com	PO #:
Tel: 312.201.7700 Fax:	STATE SAMPLES COLLECTED IN: IL

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PCM AIR*	NIOSH 7400	☐	☐		☐	X	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

Blanks should be taken from the same sample lot as field samples.

REMARKS / SPECIAL INSTRUCTIONS: IF above .05 F/cc please Email to confirm TEM analysis

☐ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	10-09-2020		10/9/20 14:30
	10/9/20 17:00		

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

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10/12/20
10:15

Version: CCOC.01.20.1/4.LD

ASBESTOS

eurofins | CEI

SAMPLING FORM

002500188

COMPANY CONTACT INFORMATION	
Company: Tetra Tech	Job Contact: Andre Baker
Project Name: Nelson Knitting	
Project ID #:	Email / Tel: 630.379.3749

Sample I.D.	pump	area	Start Time	Stop Time	Total Min.	Pump Died?	Start Flow Rate (L/min)	Stop Flow Rate (L/min)	Corrected Flow Rate
NS-AA-001-20201008	Ac-003	West entrance HF	9:32:00 AM	12:12:00 PM	160.00		15.1	12.6	13.85
NS-AA-002-20201008	ac-009	East access point HF	9:35:00 AM	12:28:00 PM	173.00		15.5	14.8	15.15
NS-AA-003-20201008	ac-005	main floor HF	9:49:00 AM	12:17:00 PM	148.00		10	7.31	8.655
NS-AA-004-20201008	ac-002	Basement main floor HF	10:04:00 AM	12:21:00 PM	137.00		10.3	10.2	10.25
NS-AA-005-20201008	ac-007	boiler HF	10:03:00 AM	12:23:00 PM	140.00		10.1	8.73	9.415
NS-AA-006-20201008	ac-001	main floor south HF	9:54:00 AM	12:19:00 PM	145.00		10.1	9.97	10.035
NS-AA-007-20201008	psp-024	West entrance LF	9:32:00 AM	12:12:00 PM	160.00		5.04	3.78	4.41
NS-AA-008-20201008	psp-023	main floor LF	9:49:00 AM	12:17:00 PM	148.00		5	4.14	4.57
NS-AA-009-20201008	psp-025	Basement main floor LF	10:04:00 AM	12:23:00 PM	139.00		4.95	3.71	4.33
NS-AA-010-20201008	psp-022	boiler LF	10:03:00 AM	12:23:00 PM	140.00		4.96	3.59	4.275
NS-AA-011-20201008	psp-021	main floor south LF	9:54:00 AM	12:19:00 PM	145.00		4.95	5.04	4.995

AP 10/12/20

10/15

Version: CCOC.01.20.2/4.LD

ASBESTOS

002500188

Total Volume (liters)	
2216	1
2620.95	2
1280.94	3
1404.25	4
1318.1	5
1455.075	6
705.6	7
676.36	8
601.87	9
598.5	10
724.275	11

10/12/20

Version: CCOC.01.20.4/4.LD

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-189474-1
Client Project/Site: Nelson Knitting

For:
Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Andre Baker

Authorized for release by:
10/15/2020 5:05:14 PM

Jim Knapp, Project Manager II
(630)758-0262
Jim.Knapp@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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eurofins | EMLab P&K

Report for:

Jim Knapp
TestAmerica-University Park, IL
2417 Bond St.
University Park, IL 60466

Regarding: Project: Nelson Knitting; Nelson Knitting; 500-189474
EML ID: 2499991

Approved by:

Cluster Leader
Dr. Kamash Pillai

Dates of Analysis:
Asbestos PLM: 10-14-2020

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 600194-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K
1815 West Diehl Road, Suite 800, Naperville, IL 60563
(866) 871-1984 Fax (856) 334-1040 www.emlab.com

Client: TestAmerica-University Park, IL
C/O: Jim Knapp
Re: Nelson Knitting; Nelson Knitting; 500-189474

Date of Receipt: 10-12-2020
Date of Report: 10-15-2020

ASBESTOS PLM REPORT

Total Samples Submitted:	7
Total Samples Analyzed:	7
Total Samples with Layer Asbestos Content > 1%:	3

Location: NS-Bulk-001-20201008, Boiler room basement air cell

Lab ID-Version‡: 11911750-1

Sample Layers	Asbestos Content
White Wrap	70% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: NS-Bulk-002-20201008, Boil room mag block

Lab ID-Version‡: 11911751-1

Sample Layers	Asbestos Content
White Boiler Insulation	50% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: NS-Bulk-003-20201008, Basement air cell pile

Lab ID-Version‡: 11911752-1

Sample Layers	Asbestos Content
Off-White Wrap	60% Chrysotile
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: NS-Bulk-004-20201008, Poured roofing material

Lab ID-Version‡: 11911753-1

Sample Layers	Asbestos Content
Tan Roofing Material	ND
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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ASBESTOS PLM REPORT

Location: NS-Bulk-005-20201008, Plaster stairwell Lab ID-Version‡: 11911754-1

Sample Layers	Asbestos Content
Light Gray Plaster	ND
Sample Composite Homogeneity:	Moderate

Location: NS-Bulk-006-20201008, Black vapor barrier Lab ID-Version‡: 11911755-1

Sample Layers	Asbestos Content
Black Vapor Barrier	ND
Composite Non-Asbestos Content:	25% Cellulose
Sample Composite Homogeneity:	Moderate

Location: NS-Bulk-007-20201008, Fire brick basement Lab ID-Version‡: 11911756-1

Sample Layers	Asbestos Content
Yellow Brick	ND
Sample Composite Homogeneity:	Moderate

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CHAIN OF CUSTODY

LAB USE ONLY
ECEI Lab Code:
ECEI Lab I.D. Range:
002499991

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Andre Baker
Company: Tetra Tech	Email / Tel: 630.379.3749
Address: 1 South Wacker Drive Suite 3700	Project Name: Nelson Knitting
	Project ID#:
Email: Andre.Baker@tetratech.com	PO #:
Tel: Fax:	STATE SAMPLES COLLECTED IN: IL

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURNAROUND TIME 4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600/R-93/116	☐	☐	☐	☐	X	☐
PLM POINT COUNT (400)	EPA 600/R-93/116	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600/R-93/116	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600/R-93/116		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-16	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD / EPA 600/R-93/116 Sec. 2.5.5.1		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-19	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS:

☐ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time:	Received By:	Date/Time
	10/9/2020		10/9/20 14:30
	10/9/20 17:00		10/12 9:06

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

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SAMPLING FORM

002499991

COMPANY CONTACT INFORMATION	
Company: Tetra Tech	Job Contact: Cordell Renner / Andre Baker
Project Name: Ortek Removal Site	
Project ID #:	Tel:

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST			
NS-Bulk-001-20201008	Boiler room Basement Air cell		PLM	X	TEM	
NS-Bulk-002-20201008	Boiler room mag block		PLM	X	TEM	
NS-Bulk-003-20201008	Basement air cell pile		PLM	X	TEM	
NS-Bulk-004-20201008	poured roofing material		PLM	X	TEM	
NS-Bulk-005-20201008	plaster stairwell		PLM	X	TEM	
NS-Bulk-006-20201008	Black vapor barrier		PLM	X	TEM	
NS-Bulk-007-20201008	Fire Brick Basement		PLM	X	TEM	
			PLM	X	TEM	
			PLM	X	TEM	

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