

**MMG JOB # 4092 JFP**

**November 30, 2020**

**TO PROVIDE LEAD-BASED PAINT HAZARD  
INSPECTIONS AND RELATED SERVICES  
FOR THE PARISH OF JEFFERSON  
RESIDENTIAL AND COMMERCIAL  
REHABILITATION PROJECTS**

**Proposal No. RFP0414**

**TECHNICAL PROPOSAL**

*Prepared for:*



**The Jefferson Parish Department of Community  
Development**

**Jefferson Parish Department of Purchasing  
P.O. Box 9  
Gretna, Louisiana 70054**

*By:*

**Materials Management Group, Inc.**



**2401 Westbend Parkway, Suite 3010  
New Orleans, Louisiana, 70114  
Office: (504) 368-0568**

**Contact: Dr. Richard Lo, CIH, Vice President  
[richardl@mmgnola.com](mailto:richardl@mmgnola.com)**

## Request for Proposals #0414

### Project Description

### SIGNATURE PAGE

The Jefferson Parish Department of Purchasing is soliciting Request for Proposals (RFP'S) from qualified proposers who are interested in **conducting an assessment of fair housing** in Jefferson Parish for the Jefferson Parish Department of Community Development.

**Request for Proposals will be received until 4:30 p.m. Local Time on: November 30, 2020**

Acknowledge Receipt of Addenda: Number: \_\_\_\_\_  
Number: \_\_\_\_\_  
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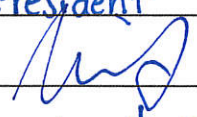
Name of Proposer: Materials Management Group, Inc.

Address: 2401 Westbend Parkway, Suite 3010  
New Orleans, LA 70114

Phone Number: (504) 368-0568 Fax Number N/A

Type Name of Person Authorized to Sign: Dr. Richard Lo

Title of Person Authorized to Sign: Vice President

Signature of Person Authorized to Sign: 

Email Address of Person Authorized to Sign: richardL@mmgnola.com

Date: 11/30/20

This RFP signature page must be signed by an authorized Representative of the Company/Firm for proposal to be valid. Signing indicates you have read and comply with the Instructions and Conditions.





## Section A — Cover Letter



November 30, 2020

Ms. Sidney Duffy, Buyer II  
Jefferson Parish Purchasing Department  
200 Derbigny Street, Suite 4400  
Gretna, Louisiana 70053

**RE: Letter of Interest to Provide Lead-Based Paint Hazard Inspections &  
Related Services for the Parish of Jefferson Residential and Commercial  
Rehabilitation Projects (JFP RFP No. 0414)  
MMG File #: 4092 JFP**

Dear Ms. Duffy:

Materials Management Group, Inc. (MMG) is pleased to submit the enclosed proposal in response to the Request for Proposal (RFP) No. 0414 for Lead-Based Paint Hazard Inspections and Related Services advertised by the Jefferson Parish Department of Community Development (Parish).

As demonstrated in our proposal, MMG is qualified and expresses sincere interest in providing the services outlined in the RFP Documents. MMG has prepared this proposal with an understanding of the scope of work to be performed as required by the Parish and is willing to negotiate a contract with the Parish. MMG further states that this proposal will satisfy the requirements outlined by the Parish as follows:

- MMG has the necessary experience, organizational structure, technical qualifications, skills, and facilities to perform all lead-based paint services requested;
- MMG is able to comply with the proposed performance schedule;
- MMG has the adequate financial resources to perform the services described in this RFP;
- MMG has an excellent record of integrity, judgment, and performance; and
- MMG is qualified and eligible to receive an award from the Parish.

MMG would like to thank the Jefferson Parish Department of Community Development for taking the time to review this submittal. Should you have any questions regarding our proposal, please contact us at (504) 368-0568.

Sincerely,

**Materials Management Group, Inc.**

A handwritten signature in blue ink, appearing to read 'Richard Lo', is positioned above the printed name and title.

Richard Lo, PhD, CIH  
Vice President/Senior Technical Manager



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## Section C — Technical Proposal



## SECTION C - TECHNICAL PROPOSAL

### 1.0 PROJECT MANAGEMENT

Between 2018 and 2020, Materials Management Group, Inc. (MMG) was the lead contractor of record for the Jefferson Parish Department of Community Development (Parish). In this capacity, MMG performed lead inspections, risk assessments, abatement specification and management plan development, and Housing Quality Standards inspections for the Parish. MMG has consistently provided all lead services on-time, on schedule, and within budget to meet the client's performance demands. More detailed descriptions of MMG's work for Jefferson Parish and other clients can be found in "Section D – Qualifications and Experience".

To satisfy the Parish's needs and contractual requirements, MMG has put forth an integrated and comprehensive project management system that includes:

- A well-defined organizational structure and open lines of communication at corporate and project levels;
- An internal contract and subcontract administration system;
- Reasonable and transparent cost estimation and cost control procedures;
- A responsive and flexible work scheduling and coordination program;
- OSHA compliant health and safety procedures;
- Quality Assurance/ Quality Control (QA/QC) system; and
- Multi-faceted record-keeping procedures that include hard and soft data management systems.

This management system, in conjunction with MMG's experience and dedication, has allowed MMG to develop a proven method for project tracking and cost control which, when implemented on various Time and Materials and Not to Exceed contracts, has been beneficial to the clients by fostering the timely completion of work coupled with the most efficient possible use of resources.

#### 1.1 Project Coordination

Ms. Mimi Lo, MSPH, is the Program Manager. She has been and will continue to serve as the primary point of contact for the Parish during all phases of the program and her contact information is listed below:

Email: [mimil@mmgnola.com](mailto:mimil@mmgnola.com)

Phone Number: (504) 368-0568

Address: 2401 Westbend Parkway, Suite 3010, New Orleans, Louisiana, 70114





Ms. Lo is responsible for:

- Picking the project team that best serves the interests of the Parish;
- Committing MMG resources to implement assigned tasks;
- Finalizing obligatory aspects of the contract;
- Performing all project administration duties as required; and
- Overall tracking of work completed.

The Program Manager ensures that work schedules are developed and provided to the Parish for approval. This upfront work helps all parties understand the work to be performed, the cost of completing the task, personnel requirements, and the schedule for dealing with the environmental issues.

### 1.2 Cost Control

To ensure that project costs are maintained within the budget, each project is assigned an individual tracking number. MMG has developed daily cost tracking sheets that are completed by site supervisors or the Project Manager. These sheets are then provided to MMG's accounting staff for processing. This allows the Program Manager to track the individual project costs against the total estimated costs. Once all field activities and deliverable are complete, projects are invoiced on a per-project basis for easy tracking and internal/client review, as needed.

### 1.3 Quality Control System

MMG maintains a quality control system to ensure that the quality objectives for each project are met. MMG has prepared, and modifies as necessary, a Quality Management Plan for quality assurance during all projects. A Quality Manager is designated for each project to determine the specific quality objectives and to ensure those objectives are met from start to finish. Random field audits are conducted to evaluate quality performance in the field. Corrective action is enforced as necessary and documented for project files. There are also duplicate samples, blank samples and spike samples included in the testing protocol to ensure the QA/QC procedure at the testing laboratory meets applicable regulatory requirements.

### 1.4 Final Reports

Upon completion of the field work, a report will be prepared and developed in accordance with the appropriate regulatory requirements and submitted to the Parish. MMG will also provide interim or regular reports to the Parish, if so desired. These reports could be highly technical or suitable for the general public. Reports will be provided in electronic PDF format; hard copies can also be provided if requested by the Parish.



### 1.5 Project Documentation and Record Archiving

All documentation pertaining to a project, including field notes, laboratory analytical reports, and final deliverables are held by MMG on a dedicated in-house server. MMG will archive the project documentation and reports for a period of no less than five (5) years.

## **2.0 LEAD-BASED PAINT SERVICES PROVIDED**

MMG's LDEQ certified Risk Assessors and Inspectors will conduct lead-based paint (LBP) risk assessments and inspections by performing a visual inspection of the property, testing deteriorated and intact painted surfaces with an X-ray Fluorescence Spectrophotometer (XRF), and collecting both dust and soil samples to analyze for lead content, as applicable. LBP inspections and risk assessments will be performed according to state, local, and federal regulations, using the documented methodologies contained in the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (2012 Edition), hereinafter referred to as the HUD Guidelines. To this end, only those properties built before 1978 will be assessed. The methodologies and procedures for each component of LBP inspections and risk assessments, as well as additional LBP related services, are delineated below.

MMG will provide all labor, tools, equipment, and materials needed to perform all LBP related services listed in the RFP. Whenever possible, or when required by the Parish, MMG will complete the inspections, risk assessments, and work specifications within one (1) week of receiving the Notice to Proceed.

### 2.1 Visual Inspection

A visual inspection of the interior and exterior of the building will be conducted. The visual inspection will locate the presence of deteriorating paint, assess the extent and causes of the deterioration, and determine whether other potential lead-based paint hazards exist. This information will serve to focus the efforts of the inspectors performing the paint survey, as well as to locate areas where dust and/or soil sampling will be conducted.

### 2.2 Lead-Based Paint Inspection and Risk Assessment Methodology

Combination LBP inspection and risk assessments will be performed in a manner consistent with commonly accepted regulatory standards. Paint testing for risk assessments, per HUD Guidelines, requires that deteriorated painted surfaces as well as intact paint on friction, impact, and/or chewable surfaces be tested for LBP. Paint testing for a lead inspection includes the representative testing of all accessible painted surfaces beyond those designated by the HUD/EPA risk assessment guidelines. By combining measurements of lead in dust and soil with a surface-by-surface paint analysis, LBP hazards can be identified and addressed in a comprehensive fashion.



MMG will determine the relative levels of risk based on the test results of the various matrices and provide recommendations for interim control and abatement strategies.

### 2.3 Sampling Methodology - Paint

MMG's LDEQ certified Lead Risk Assessors and Lead Inspectors will conduct LBP inspections and risk assessments using an X-ray Fluorescence Spectrometer (XRF) - Niton XLP-300A Spectrum Analyzer. The personnel on site will conduct each survey using the procedures dictated by the Louisiana Administrative Code, Title 33 (Environmental Quality), Part III (Air), Chapter 28 (Lead-Based Paint Activities), Section 2803 (Definitions), (LAC 33:III.2811B) in accordance with the HUD Guidelines. Standard quality control procedures will be followed and documented according to the HUD Guidelines and the XRF manufacturer's instruction.

For the purposes of the XRF survey, "Lead-Based Paint" is defined as "paint or other surface coatings that contain a lead concentration equal to or in excess of 1.0 milligram per square centimeter (mg/cm<sup>2</sup>).” This definition was taken from the Louisiana Administrative Code (LAC), Title 33 (Environmental Quality), Part III (Air), Chapter 28 (Lead-Based Paint Activities), Section 2803 (Definitions). The Niton XLP-300A instrument used to conduct the XRF survey measures in milligrams per square centimeter (mg/cm<sup>2</sup>); therefore, the evaluation of lead content involves comparing all XRF survey readings directly to the 1.0 mg/cm<sup>2</sup> regulatory standard. Documentation collected by MMG throughout the XRF survey includes pictures of all positive XRF readings and components which test positive for LBP. Photographs of LBP positive components will be included in each report; all photographs taken at a given property will be available for the Parish staff upon request.

Under special situations, paint chip samples may be taken. These paint chip samples will be collected by the certified Lead Inspector and sent to an appropriately accredited laboratory for analysis.

### 2.4 Sampling Methodology - Dust

MMG conducts all dust sampling activities in accordance with Chapter 5 of the HUD guidelines. MMG's LDEQ certified Inspectors and Risk Assessors will collect dust samples from floors, windowsills, and troughs as appropriate throughout the property. One-foot by one-foot areas of the floors and representative areas of the windowsills or troughs will be sampled near areas of deteriorating paint, high foot traffic areas, or other areas of special concern.



### 2.5 Sampling Methodology - Soil

MMG conducts all soil sampling activities in accordance with Chapter 5 of the HUD guidelines. MMG's certified Inspectors and Risk Assessors will collect soil samples from the yards and driplines where bare soil in excess of 9 ft<sup>2</sup> is present. Soil will be collected from four to six locations and combined into one composite soil sample per each sampling area. Composite samples will be collected for each bare dripline, general yard, and/or play area, as applicable. The samples are collected using a disposal soil plug inserted to a depth of 1/2 inch.

### 2.6 Sampling Methodology – Water

If applicable, MMG's certified Inspectors and Risk Assessors will collect drinking water samples using the protocols and recommendations outlined in the U.S. Environmental Protection Agency (USEPA) document "Suggested Directions for Homeowner Tap Sample Collection Procedures" or "Sampling for Lead in Drinking Water in Nursery Schools and Day Care Facilities". Although water sampling is not part of MMG's standard LBP inspection/risk assessment protocol, MMG's LDEQ certified Lead Inspectors and Risk Assessors are fully qualified to perform lead-in-water sampling and assessments as required based on individual site conditions, client needs, and/or Parish concerns.

### 2.7 Analysis Procedures

MMG utilizes two analytical laboratories for the analysis of all dust, soil, and/or water samples, Waypoint Analytical and EMSL. Please refer to laboratory certifications listed in Appendix 4 – Laboratory Certifications.

Waypoint Analytical is a LELAP laboratory certified by the Louisiana Department of Environmental Quality (LDEQ). Waypoint is located at 5041 Taravella Road, Marrero, LA 70072. Samples will be sent to Waypoint via courier service.

EMSL is a LELAP laboratory certified by the Louisiana Department of Environmental Quality (LDEQ). EMSL is located at 18369 Petroleum Drive, Baton Rouge, LA 70809. Samples will be sent to EMSL via Fed-Ex Overnight.

Samples collected for analysis of lead content in dust (for LBP clearance investigations) and soil will be analyzed by using Atomic Absorption Spectroscopy (AAS). Samples collected for analysis of lead content in dust (for LBP risk assessments) will be analyzed by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) and water samples collected by be analyzed by Inductively Couple Plasma-Mass Spectrometry (ICP-MS).



### 2.8 LBP Inspection and Risk Assessment Final Report Submission

The following information for each property will be included in a final LBP inspection/risk assessment report and submitted to the Parish:

- The date of the LBP inspection and risk assessment, the name and signature of the person(s) performing the assessment, state of certification, and his or her certification number;
- Identifying property information, year of construction and owner information;
- Tabulation of all XRF results to indicate the presence of LBP and deteriorated LBP hazards;
- If samples were collected, the exact locations where the samples were collected, a description of the manner used to choose sampling locations, the name and signature of each certified Inspector who collected the samples, state of certification, and his or her certification number;
- Analytical results of dust and soil to indicate the presence of dust-lead and soil-lead hazards; and
- Recommended interim or permanent control measures for the identified LBP hazards at each actionable location.

An example of a LBP Inspection and Risk Assessment report is included in Appendix 3 - Sample Report.

### 2.9 Work Specification Development and Bidding Support

At the request of the Parish, following the identification and documentation of LBP hazards at the property in the Lead-Based Paint Inspection and Risk Assessment report produced by MMG, specifications for the lead hazard control work will be completed by MMG. The specifications will serve as a guide for the contractor and the Parish regarding the scope and extent of lead hazard control work to be performed at a given property. Specifications produced by MMG will include paperwork requirements, recommendations for interim or permanent lead hazard control measure specific to the property, a detailed scope of work for LBP hazard reduction, waste disposal requirements, and bidding solicitation guidelines for contractors. MMG will also provide costs estimates of the lead-hazard control work dependent on the control method utilized. MMG will serve as the intermediary for this important step in removing lead hazards and will act in the best interest of the Parish and its citizens. MMG will attend bid conferences and consult with the Parish to ensure quality work and answer any questions.

### 2.10 On-Site Monitoring and Supervision of Lead-Hazard Reduction Work

Throughout the lead hazard reduction work, MMG personnel will provide on-site air monitoring of the work zone and the surrounding area for quality assurance purposes. MMG will monitor the air in and around the work zone for lead dust contamination. The



air samples will be taken in the areas immediately affected by the lead hazard reduction work, as well as outside of this area to ensure all lead best management practices are being followed in order to prevent the movement of lead particles outside of the work zone. Air samples will be taken daily for the entirety of the lead hazard control work project. All air samples collected will be sent for lead analysis via Federal Express to a LELAP laboratory certified by the Louisiana Department of Environmental Quality (LDEQ). A final report will be submitted to the Parish detailing the lead-hazard reduction activities and the results of the air monitoring.

By providing on-site project monitoring services for all lead hazard reduction work activities, MMG can ensure the use of proper lead-safe work practices, confirm the certification of contractors conducting the work, streamline the clearance process, and best protect the health and safety of neighbors and community partners involved in the project. MMG will also notify the Parish of any potential regulatory or specifications violations that become apparent during the on-site monitoring.

#### 2.11 Post-Abatement Clearance Inspection Work

Once the lead hazard control work has been completed at the property, MMG's LDEQ certified Inspectors and Risk Assessors will mobilize on-site to conduct the clearance examination. The clearance examination is designed to ensure all lead hazards documented in the LBP inspection and risk assessment report have been rectified and that no hazards remain in or around the work area. This is accomplished through a visual inspection, in which all hazards previously identified are confirmed as being mitigated according to the specification.

Documentation of hazard mitigation collected during the visual inspection will include pictures of all areas previously identified as containing LBP hazards in order to verify the completion of lead hazard reduction work. Dust wipe samples will be taken in areas where dust-lead hazards were previously identified, as well as in all areas where lead hazard reduction work was conducted. If necessary, soil samples will be collected.

All dust, soil, and/or water samples collected will be sent for lead analysis via Federal Express to a LELAP laboratory certified by the Louisiana Department of Environmental Quality (LDEQ). If any item fails the clearance examination, additional work will be required followed by another clearance investigation until all hazards have been rectified and the property meets the clearance standards. MMG will also maintain a site-specific field log for all clearance activities and notes will be taken every day that monitoring activities take place.

Once all items have passed the clearance examination, a final clearance report will be submitted to the Parish for their records. The report will detail the clearance examination activities and the results of all tests performed, as well as recommendations for ongoing monitoring of surfaces mitigated using interim controls if that option was pursued.





### 2.12 Housing Quality Standards Inspection

As MMG receives Housing Quality Standards Inspection (HQS) referrals, inspections will be scheduled, and the fieldwork completed within 24 hours, when deemed necessary. During the fieldwork, the checklist will be followed which includes an evaluation of painted surfaces. All surfaces must be free of deteriorated paint in order for the home to meet HUD's standards. After the checklist is completed, the form along with photos of the home will be submitted to the Parish.

### 2.13 Environmental Consultation

Communication between the Parish and MMG will be vital in resolving any lead issues of concern to the Parish, contractors and the residents. In addition to qualified lead professionals, MMG's highly trained and educated staff includes members specializing in asbestos, mold, and indoor air quality issues commonly of concern to home owners and residents. In conjunction with responding to questions from the Parish, MMG can also support the Parish in public meetings dealing with lead, asbestos, and other environmental concerns. In the past, MMG has successfully helped the City of New Orleans and the Orleans Parish School Board to deal with environmental concerns at their public meeting forums.

## **3.0 TESTING EQUIPMENT AND SAMPLING SUPPLIES**

The MMG lead team is equipped with two (2) X-ray Fluorescence Spectrophotometer (XRF) - Niton XLP-300A Spectrum Analyzers. As required by the U.S. Nuclear Regulatory Commission and the Louisiana Department of Environmental Quality – Radiation Protection Division, all MMG personnel handling the XRF have required Radiation Safety Training and equipment specific training. MMG maintains the Radiation Material License (LA-806-L01) necessary to operate the XRF in Louisiana.

In addition, MMG also maintains an ample stock of sampling wipes and tubes for collecting both dust and soil samples. After collection, all dust and soil samples are documented with proper Chain of Custody forms and sent to either EMSL or Waypoint Analytical.

## **4.0 TESTING LABORATORY**

At this time, MMG proposes to utilize the analytical services of EMSL Analytical Laboratory, located at 18369 Petroleum Drive, Baton Rouge, LA 70809 and of Waypoint Analytical, located at 5041 Taravella Road, Marrero, LA 70072. EMSL and Waypoint are LELAP laboratories certified by LDEQ. Please refer to laboratory certifications listed in Appendix 4 – Laboratory Certifications.

MMG is also able and willing to work with other laboratories pre-approved or chosen by the Parish, as applicable to this contract or Parish requirements.



## Section D — Qualifications and Experience



## SECTION D – QUALIFICATIONS AND EXPERIENCE

### 1.0 MMG BACKGROUND

Materials Management Group, Inc. (MMG) has been in business in the Greater New Orleans area for over thirty (30) years and provides a wide variety of environmental consulting services. MMG has the staff, experience, and systems in place to provide the services and expertise required to meet the needs of the Parish as presented in the RFP. All certifications required for the RFP are listed in Appendix 1 including:

- Appendix 1.1 – Certificate of Debarment
- Appendix 1.2 – Anti-Lobbying Certificate
- Appendix 1.3 – DBE Form and Certificate
- Appendix 1.4 – Corporate Resolution
- Appendix 1.5 – Affidavit Instructions and Affidavit Form

#### 1.1 Over 30 Years of Excellent Performance

In April 1990, MMG was founded in New Orleans as a chemical emergency response firm to provide clients with site remediation, tank cleaning, drum sampling/disposal, and waste management services. In 1991, MMG was approved by the Louisiana Department of Environmental Quality (LDEQ) as a Response Action Contractor to perform underground storage tank cleanup/closure services and LDEQ Trust Fund activities. In 1993, MMG expanded its environmental consulting services to assist clients in the following areas:

- Lead-based paint, asbestos, and mold investigations, assessments and abatement support;
- Phase I and II Environmental Site Assessments;
- Field sampling, testing, and data validation for environmental media;
- Drilling and soil characterization and monitoring well installation;
- Environmental site remediation and waste management; and
- Regulatory support in dealing with LDEQ, EPA, and HUD.

MMG's satisfied clients include entities in both the government and private sectors. Organizations such as the Jefferson Parish, City of Kenner, City of New Orleans, the U.S. Army Corps of Engineers, Orleans Parish School Board/NOLA Public Schools, and a diverse group of housing non-governmental organizations appear among MMG's list of satisfied, recurring customers.



### 1.2 Certified Disadvantaged Business Enterprise (DBE)

MMG is certified as a State and Local DBE (SLDBE) by the New Orleans Aviation Board. Please refer to this certification in Appendix 1.3 – DBE Form and Certificate.

### 1.3 Project Principal Contact

Ms. Mimi Lo, MSPH, is the Program Manager. She has been and will continue to serve as the primary point of contact for the Parish during all phases of the program. Ms. Lo is very familiar with the departmental process in project assignment, scheduling, reporting, and invoicing. Due to her previous work with the Parish, there would be no learning curve with her involvement in facilitating the requested services. Her resume can be found in Appendix 5 – Staff Resumes. Her contact information is listed below:

Email: [mimil@mmgnola.com](mailto:mimil@mmgnola.com)  
Phone: (504) 368-0568  
Address: 2401 Westbend Parkway, Suite 3010  
New Orleans, Louisiana, 70114

## **2.0 MMG QUALIFICATIONS AND PROFESSIONAL EXPERIENCE**

Since 2004, Materials Management Group, Inc. (MMG) has been providing lead-based paint related services including inspections, risk assessments, and clearances in the Greater New Orleans Area. MMG has served a variety of clientele including government, non-profit, and private groups. MMG maintains an excellent record with clients in accomplishing projects while controlling cost, meeting quality and regulatory requirements, and maintaining an efficient work environment.

Lead inspection, risk assessment, and clearance activities are conducted based on 24 CFR 35, including HUD's Lead Safe Housing Rule (Subpart B-R). The investigation procedures are conducted in accordance with the Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. In addition, the Louisiana DEQ (LDEQ) lead regulation (LAC III.33 Chapter 28) is also followed.

### 2.1 MMG LBP Staffing

MMG maintains a full-time project management team composed of highly educated and appropriately licensed environmental health scientists. This team includes two (2) staff members with doctorate degrees and four (4) staff members with master's degrees, all in the environmental health sciences field. MMG also has on staff two (2) environmental assessment specialists that are highly experienced in conducting lead-based paint inspections, risk assessments, and clearances.



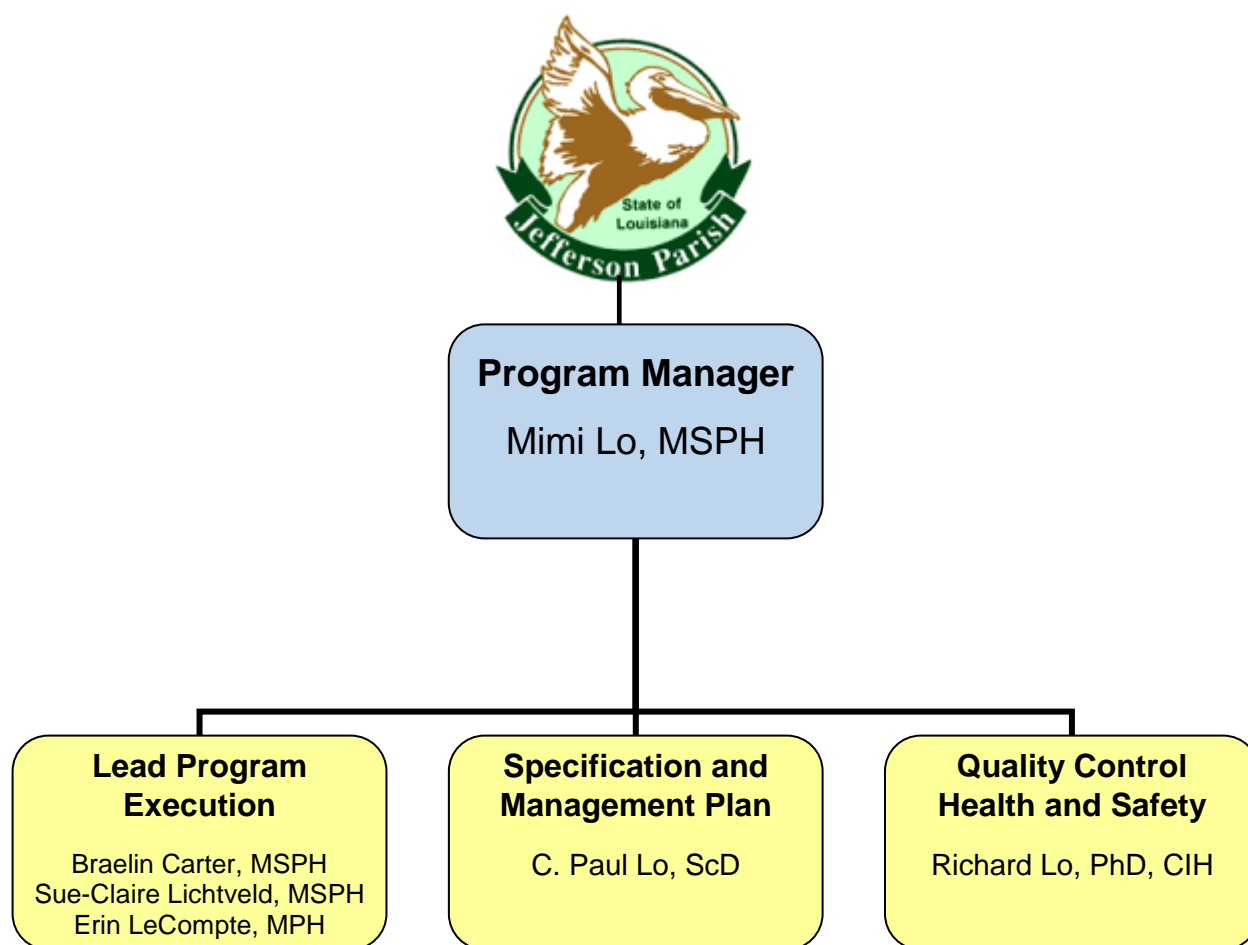
MMG's full-time staff is certified by LDEQ to provide lead services. In total, the team includes eight (8) Lead Inspectors, eight (8) Lead Risk Assessors, two (2) Lead Project Supervisors, and one (1) Lead Project Designer. The LDEQ license numbers of these team members are included in Table 2.1 below. A detailed resume for each team member is included in Appendix 5 – Staff Resumes. Copies of current LDEQ lead certifications are included in Appendix 6 – Staff Certifications.

**Table 2.1 – LDEQ Lead Certifications of MMG Staff**

<b>Name</b>	<b>Certificate</b>	<b>Cert. Number</b>	<b>Exp. Date</b>
Mimi Lo	LDEQ Lead Inspector	JI155140	7/9/2021
	LDEQ Lead Risk Assessor	JR155140	7/10/2021
	LDEQ Lead Project Supervisor	JS155140	7/11/2021
C. Paul Lo	LDEQ Lead Inspector	JI121486	1/7/2021
	LDEQ Lead Risk Assessor	JR121486	1/8/2021
	LDEQ Lead Project Designer	JD121486	1/9/2021
	LDEQ Lead Project Supervisor	JS121486	1/9/2021
Braelin Carter	LDEQ Lead Inspector	OI193973	10/15/2021
	LDEQ Lead Risk Assessor	OR193973	10/16/2021
Sue-Claire Lichtveld	LDEQ Lead Inspector	JI210196	7/9/2021
	LDEQ Lead Risk Assessor	JR210196	7/10/2021
Erin LeCompte	LDEQ Lead Inspector	O1217986	10/13/2021
	LDEQ Lead Risk Assessor	OR217986	10/14/2021
Richard Lo	LDEQ Lead Inspector	AI192398	8/18/2021
	LDEQ Lead Risk Assessor	AR192398	8/24/2021
Jeff Camus	LDEQ Lead Inspector	MI182306	3/5/2021
	LDEQ Lead Risk Assessor	MR182306	3/6/2021
Justin Crochet	LDEQ Lead Inspector	MI184257	3/5/2021
	LDEQ Lead Risk Assessor	MR184257	3/6/2021

## 2.2 MMG LBP Project Organization

In service to the Parish, MMG has devised a project organizational method designed to maintain stream-lined communication and ensure effective job performance. An organizational flow chart is included on the following page:



Name	Project Assignment
Mimi Lo, MSPH	<ul style="list-style-type: none"> <li>Overall Project Management and Administration, Remedial Design, Specification Development, Regulatory Interface, Legal and Expert Testimony Support</li> </ul>
Braelin Carter, MSPH	<ul style="list-style-type: none"> <li>Lead Inspections/Risk Assessments/Clearances</li> </ul>
Sue-Claire Lichtveld, MSPH	<ul style="list-style-type: none"> <li>Lead Inspections/Risk Assessments/Clearances</li> </ul>
Erin LeCompte, MPH	<ul style="list-style-type: none"> <li>Lead Inspections/Risk Assessments/Clearances</li> </ul>
Dr. C. Paul Lo, ScD	<ul style="list-style-type: none"> <li>Lead Related Activities, Remedial Design, Specification Development, Regulatory Interface, Legal and Expert Testimony Support</li> </ul>
Dr. Richard Lo, PhD, CIH	<ul style="list-style-type: none"> <li>Industrial Hygiene, Health and Safety, Indoor Air Quality</li> <li>Lead Related Activities</li> </ul>





### 2.3 Descriptions of MMG's Previous Projects

The following are brief descriptions of twelve (12) projects that MMG has completed which highlight the full range of clients MMG has partnered with and the depth and breadth of experience that MMG can bring to lead projects. These projects include individual residential units, partnering with non-profit organizations participating in the HOME, ESG, and CDBG programs, as well as work performing large-scale investigations of public buildings. MMG's experience in southeast Louisiana is quite extensive and is summarized below:

#### **2.3.1 Jefferson Parish Department of Community Development (2013-Present)**

Jefferson Parish contracted MMG to perform all lead inspections and risk assessments for their Department of Community Development. To date, MMG has performed over 150 such investigations in preparation for abatement activities in private residences. MMG also performed 36 lead-based paint clearances after completion of the abatement activities.

#### **2.3.2 City of New Orleans (2005-2018)**

In the years since Hurricane Katrina, MMG has performed over 225 lead-based paint risk assessments of private homes in the Greater New Orleans area for the City's NOLEAD and DE-OOR programs. This was carried out in tandem with other large- and small-scale projects, resulting in excellent time management skills and unique experience necessary for seamless project execution. In addition to private home investigations, MMG has performed large-scale lead inspections and lead risk assessments for public facilities in southeast Louisiana; in many instances, MMG also provided post-investigation abatement and renovation consultation for these buildings. There have been over 38 investigations of public spaces and facilities under the City of New Orleans' Recovery Program, including post-abatement clearance testing and air monitoring activities. This included playgrounds, parks, municipal buildings, and areas of public congregation. The Morris F. X. Jeff, Sr. Municipal Auditorium located in Armstrong Park and Lafitte Greenway Shelter (former Brake Tag Station) in Mid-City have been put under the management and direction of MMG for lead hazard assessment services.

#### **2.3.3 Louisiana Housing Corporation – Small Rental Property Program (2015-2018)**

MMG supported the Small Rental Property Program for the Louisiana Housing Corporation by performing 45 lead risk assessments and 11 lead clearances after completion of lead abatement by other contractors.



**2.3.4 St. Charles Parish Department of Community Development  
(2013-Present)**

St. Charles Parish Department of Community Service contracted MMG to conduct lead inspections and risk assessments for its HUD affiliated property rehabilitation program. MMG completed inspections and risk assessments for over 15 properties.

**2.3.5 City of Kenner Department of Community Development  
(2014-Present)**

City of Kenner requested that MMG conduct lead inspections and risk assessments for its HUD grant to promote affordable housing opportunities, principally for persons of low to moderate income. To date, MMG has performed over 20 lead inspections and risk assessments for the City of Kenner.

**2.3.6 Orleans Parish School Board (2012-Present)**

MMG has completed lead inspections and risk assessments at four schools controlled by the Orleans Parish School Board. MMG also prepared specifications for lead abatement at two schools.

**2.3.7 Recovery School District (2016-2018)**

MMG conducted lead-based paint risk assessments on all schools located within Orleans Parish that were built before 1978. 35 large-scale risk assessments on schools were conducted. Based on the findings, MMG prepared the abatement specifications for 5 schools and performed clearances at these schools after the abatement was completed.

**2.3.8 Preservation Resource Center of New Orleans (2013-Present)**

MMG has served as an environmental consultant for the New Orleans' Preservation Resource Center to assist in lead-based paint investigations and risk assessments, asbestos inspections, and Phase I Environmental Site Assessments. To date, MMG has completed 27 lead inspections/risk assessments for the Center.

**2.3.9 St. Bernard Project (2013-Present)**

MMG has been contracted by the St. Bernard Project to perform lead inspections and lead risk assessments for its housing rehabilitation program. To date, 226 lead inspections/risk assessments have been completed, in addition to 98 completed lead clearances. MMG also provided lead and asbestos training to the volunteers working for the rehabilitation program.



#### **2.3.10 Rebuilding Together New Orleans (2012-Present)**

MMG has been working with Rebuilding Together New Orleans since 2012 to support its housing rehabilitation program. To date, 127 lead inspections and risk assessments have been completed thus far.

#### **2.3.11 Ramboll (formerly ENVIRON International Corporation) (2014-Present)**

MMG partnered with Ramboll to perform lead inspections and risk assessments for the Louisiana State Office of Community Development Disaster Recovery Unit. All lead work is related to HUD CDBG funded activities. To date, MMG has completed 268 lead inspections/risk assessments and 94 clearances of residential properties under this program.

#### **2.3.12 Louisiana Department of Health – Office of Public Health (2019- Present)**

In 2019, MMG was awarded a contract with the Louisiana Department of Health to conduct lead in drinking water assessments in daycares and public schools throughout the State of Louisiana. To date, MMG has completed water sampling and site assessments at fifteen (15) child care centers throughout the State of Louisiana.

### **3.0 CURRENT FINANCIAL STATEMENT**

Refer to Section G - Financial Profile for information demonstrating MMG's financial stability. Financial statements are included in Appendix 7 – Financial Statements. The current insurance certificates are included in Appendix 2 – Certificates of Insurance.



#### 4.0 REFERENCES

MMG maintains an excellent record of performance for both government and private clients. The references included below can best illustrate MMG's technical competence and professional performance.

References	
<b>Emann A. Batiste</b>  Federal Programs Coordinator <i>Jefferson Parish Department of Community Development</i>  1221 Elmwood Park Blvd., Suite 605 Jefferson, LA 70123  504-736-6261 <a href="mailto:ebatiste@jeffparish.net">ebatiste@jeffparish.net</a>	<b>Stephanie Brumfield</b>  Program Manager, Public Services <i>Jefferson Parish Department of Community Development</i>  1221 Elmwood Park Blvd., Suite 605 Jefferson, LA 70123  (504) 736-6264 <a href="mailto:sbrumbfield@jeffparish.net">sbrumbfield@jeffparish.net</a>
<b>Laura Cheramie</b>  Federal Program Coordinator, Assistant <i>Jefferson Parish Department of Community Development</i>  1221 Elmwood Park Blvd., Suite 605 Jefferson, LA 70123  (504) 731-4467 <a href="mailto:lcheramie@jeffparish.net">lcheramie@jeffparish.net</a>	<b>Tamithia P. Shaw, Esq.</b>  Director <i>City of Kenner Department of Community Development</i>  624 Williams Blvd. Kenner, LA 70062  (504) 468-7588 <a href="mailto:tshaw@kenner.la.us">tshaw@kenner.la.us</a>
<b>Vincent Smith</b>  Director <i>City of New Orleans Capital Projects Administration</i>  1300 Perdido St., Suite 6E15, New Orleans, LA 70112  (504) 658-8666 <a href="mailto:viasmith@nola.gov">viasmith@nola.gov</a>	<b>Courtney Saucier</b>  Housing Rehabilitation Specialist <i>St. Charles Parish Department of Community Services</i>  14564 River Road New Sarpy, LA 70078  (504) 472-2002 <a href="mailto:csaucier@stcharlesgov.net">csaucier@stcharlesgov.net</a>



<p><b>Alex Thibadoux</b></p> <p>Construction Manager <i>Rebuilding Together New Orleans</i></p> <p>2801 Marais Street New Orleans, LA 70117</p> <p>(504) 430-7190 <a href="mailto:athibadoux@rtno.org">athibadoux@rtno.org</a></p>	<p><b>Paul A. Lucius</b></p> <p>Director of Facilities <i>Orleans Parish School Board</i></p> <p>2401 Westbend Parkway, Suite 5055 New Orleans, LA 70114</p> <p>(504) 304-3857 <a href="mailto:Paul_Lucius@nolapublicschools.com">Paul_Lucius@nolapublicschools.com</a></p>
<p><b>Dulcie Togstad</b></p> <p>Executive Director <i>St. Bernard Project – New Orleans</i></p> <p>2645 Toulouse Street New Orleans, LA 70119</p> <p>(317) 777-0839 <a href="mailto:DTogstad@spbusa.org">DTogstad@spbusa.org</a></p>	<p><b>Johnny Hebert</b></p> <p>Principal Environmental Scientist <i>Ramboll (Environment and Health)</i></p> <p>8235 YMCA Plaza Drive, Suite 300 Baton Rouge, LA, 70810</p> <p>(225) 408-2841 <a href="mailto:jhebert@ramboll.com">jhebert@ramboll.com</a></p>



## Section E — Innovative Concepts





## **SECTION E - INNOVATIVE CONCEPTS**

### **1.0 COMBINED RISK ASSESSMENTS AND INSPECTIONS**

Although lead risk assessments generally do not test any component deemed to be in “intact” paint condition, MMG recommends conducting lead tests on these surfaces by performing an integrated lead inspection and risk assessment investigation. The results will serve two purposes:

1. Known, intact, painted surfaces can be positively identified as containing lead-based paint. The homeowner can then better manage these painted surfaces over the life of the building.
2. In the event of any future renovation or modification of the dwelling, this information can aid the owner, contractor, and Parish representatives in making proper decisions.

### **2.0 LEAD DESIGNER**

MMG staff, Dr. C Paul Lo, is an LDEQ certified Lead Designer who can support the Parish to ensure all abatement activities proposed by the abatement contractor meet regulatory requirements. Dr. Lo can also ensure the abatement activities carried out by the contractor meet the intended operational objectives. Refer to Appendix 6 — Staff Certifications for a copy of this certification.

### **3.0 CERTIFIED INDUSTRIAL HYGIENIST**

Dr. Richard Lo, an MMG staff member, is a Certified Industrial Hygienist who specializes in health and safety of workers and residents as well as indoor air quality of houses that require abatement. Refer to Appendix 6 — Staff Certifications for a copy of this certification.

### **4.0 ASBESTOS AND/OR MOLD CONCERNS DURING LEAD WORK**

MMG has the experience and capability to conduct asbestos investigations of houses as required for the support and facilitation of renovation, remediation, or abatement work. Asbestos concerns must be dealt with prior to lead abatement activities not only to protect the workers and the residents but also to comply with mandated LDEQ regulatory requirements and to ensure that there is no asbestos fiber contamination of the surrounding environment due to the potential disturbance of asbestos-containing materials (ACM) associated with LBP abatement activities. Mold is another issue commonly found in the greater New Orleans area. MMG staff have conducted multiple



mold investigations to support both private and public clients. A simple mold survey can substantiate the intended Housing Quality Standards (HQS).

## **5.0 LEAD IN DRINKING WATER TESTING**

MMG is currently under contract with the Louisiana Department of Health to test lead in drinking water inside of child care facilities and public schools throughout the State of Louisiana. The experience that MMG gained from this project can assist the Parish in the identification, mitigation, and resolution of the problems associated with lead in drinking water, should the Parish ever require these services from MMG.



## Section F — Project Schedule



## SECTION F - PROJECT SCHEDULE

The proposed project schedule is based on MMG's successful execution of similar lead services for the Parish between 2018 and 2020. MMG has and will continue to make every effort to meet the requested schedule in support of both the Parish and its residents.

### 1.0 TIMELINE FOR RISK ASSESSMENTS, INSPECTIONS, AND CLEARANCES

Once MMG receives the Notice to Proceed (NTP) and the necessary information from the Parish, the project manager will initiate contact with the property owner within 24 hours. The site investigation will be scheduled at a time convenient for both MMG staff and the property owner. MMG personnel will make a courtesy call to the owner 24 hours in advance if the scheduled appointment is made more than five (5) days ahead of time.

Every effort will be made to complete the inspections, risk assessments, and report deliverables within one (1) week of receiving the Notice to Proceed. The detailed schedule process is summarized below:

- Receive NTP containing homeowner information from the Parish;
- Within 1 hour of NTP - confirm and accept order with Parish representative(s);
- Within 24 hours of NTP - contact homeowner to schedule field work;
- Within 2-5 days of NTP - complete requested field work;
- Within 3-5 days of completion of field work - write and send summary report to the Parish;
- Within 2 weeks of NTP - write and send final report to the Parish; or
- If requested by the Parish within 1 week of NTP - write and send final report to the Parish.



## **2.0 Housing Quality Standards (HQS) Inspections**

As MMG receives HQS referrals, the inspections will be scheduled and the fieldwork completed within 24 hours when deemed necessary. After the checklist is completed, the form, along with photos of the home, will be submitted to the Parish. The detailed schedule process is summarized below:

- Receive NTP with homeowner information from Parish representative(s);
- Within 1 hour of NTP - confirm and accept order with Parish representative(s);
- Complete field inspection based on the Parish request time (usually 3-24 hours);
- Deliver final report via e-mail to the Parish within 24 hours after inspection.



## Section G — Financial Profile



## SECTION G - FINANCIAL PROFILE

### 1.0 MMG FINANCIAL PROFILE

In the past 10 years, MMG has maintained a very strong financial status with a profitable operation, positive cash flow, and an excellent credit rating. No projects, including all lead projects conducted for Jefferson Parish between 2018 and 2020, were delayed or terminated for any reason. In preparing for the projects with the Parish, MMG has secured a \$200,000.00 line of credit with Capital One Bank to support the lead consulting activities.

Please refer to MMG's CPA compiled financial statements of the last three years included in Appendix 7 — Financial Statements.

### 2.0 MMG INSURANCE INFORMATION

At the present time, MMG maintains the following insurances:

- Commercial General Liability Insurance: \$2,000,000.00
- Workers Compensation and Employers' Liability Insurance: \$1,000,000.00
- Contractor Pollution and Professional Liability Insurance: \$2,000,000.00
- Vehicle Liability Insurance: \$1,000,000.00

These current insurances exceed the requirements listed in the RFP. Additionally, since the establishment of MMG, no claims have been made to MMG's insurance policies.

Please refer to MMG's current insurance certificates included in Appendix 2 — Certificates of Insurance.



## Section H — Cost Proposal





## **SECTION H - COST PROPOSAL**

MMG has submitted the Cost Proposal via a separate submission on Central Bidding, as required by this RFP.



## Appendix 1 — RFP Required Certifications



## *Appendix 1.1 — Certificate of Debarment*

### Contractor Certification

Contractor's Name: Materials Management Group, Inc.


#### Certification Regarding Debarment, Suspension, and Other Responsibility Matters In Primary Covered Transactions

1. The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction;
- c. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- d. Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission or any of the offense enumerated in paragraph (1)(b) of this certification; and
- e. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Name and Title of Authorized Representative: Richard Lo Vice President

Signature:  Date: 11/18/2020



## *Appendix 1.2 — Anti-Lobbying Certificate*

Anti-Lobbying Form

CERTIFICATION OF RESTRICTIONS ON LOBBYING

I, Richard Lo Vice President, hereby certify on  
(name and title of bidder's official)

behalf of Materials Management Group, Inc. that:  
(name of bidder)

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all sub awards at all tiers (including subcontracts, sub grants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance is placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Executed this 19 day of November, 2020.

By [Signature]  
(signature of authorized official)

Vice President  
(title of authorized official)



## *Appendix 1.3 — DBE Form and Certificate*



## MINORITY BUSINESS INQUIRY/CHARACTERISTIC FORM

### Small, Minority, Women-Owned and/or Section 3 Business Concern Representation

The bidder represents and certifies as part of its bid that it;

(a) ☒ is, ☐ is not a small business concern. "Small business concern," as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding, and qualified as a small business under the criteria and size standards in 13 CFR 121.

(b) ☐ is, ☒ is not a women-owned business. "Women-owned business enterprise," as used in this provision, means a business that is at least 51 percent owned by a woman or women who are U.S. citizens and who also control and operate the business.

(c) ☒ is, ☐ is not a minority business enterprise. "Minority business enterprise," as used in this provision, means a business which is at least 51 percent owned or controlled by one or more minority group members or, in the case of a publicly owned business, at least 51 percent of its voting stock is owned by one or more minority group members, and whose management and daily operations are controlled by one or more such individuals. For the purpose of this definition, minority group members are:

(Check the block applicable to you)

☐ Black Americans

☒ Asian Pacific Americans

☐ Hispanic Americans

☐ Asian Indian Americans

☐ Native Americans

☐ Hasidic Jewish Americans

(d) ☐ is, ☒ is not a bonafide Section 3 Company. "Section 3 company," as used in this provision, means that it meets the following definition:

1. 51% or more of the ownership of this company is owned by Section 3 residents, as defined by HUD.
2. Currently, at least 30% of the employees of the company are Section 3 residents, as defined by HUD.
3. At least 30% of the employees of the company were Section 3 residents, as defined by HUD, within three years of the date of first employment with this company.
4. I commit to subcontract at least 25% of the total value of this contract to Section 3 subcontractors, as these companies are defined above, and to provide the necessary evidence to substantiate this, prior to the award of contract.

Name and Title of Authorized Representative: Richard Lo Vice President

Signature: 

Date: 11/18/2020





Mayor LaToya Cantrell  
City of New Orleans

New Orleans Aviation Board

Hon. Michael G. Bagneris  
Chairman

Doug Thornton  
Vice-Chairman

Todd Francis  
Ruth Kullman  
Ti Adelaide Martin  
Joseph Nicolosi, Jr.  
Roger H. Ogden  
Gary L. Smith, Sr.

Kevin C. Dolliole  
Director of Aviation

P. O. Box 20007  
New Orleans, LA 70141

P: 504-303-7800  
F: 504-303-7566

[www.flymsy.com](http://www.flymsy.com)

January 8, 2020

Mr. C. Paul Lo  
Materials Management Group, Inc.  
3520 General DeGaulle, suite 3010  
New Orleans, LA 70114

Re: 2020 Annual Update

Dear Mr. Lo:

Thank you for having responded to our request for your 2020 annual update to maintain your Disadvantaged Business Enterprise (DBE) certification. We have reviewed your Affidavit of No Change, along with the supporting documents, and have determined that your firm continues to meet the DBE guidelines in 49 CFR Part 26. Thus, your firm is certified to fulfill DBE requirements on specified NOAB contracts until your next anniversary date (i.e. *March 2, 2021*).

**Service(s):**

**PROFESSIONAL SERVICES**

**Area(s) of Work:**

54162 -	Services
Environmental	56291 - Remediation
Consulting	Services
Services	562910 - Remediation
541620 -	Services
Environmental	C22 - Environmental
Consulting	Engineering

Sincerely,

Philistine Ferrand  
DBE Liaison Officer  
[philisti@flymsy.com](mailto:philisti@flymsy.com) - 504.303.7610 - 504.303.7614 fax

PF/SF



## *Appendix 1.4 — Corporate Resolution*

## CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF

Material Management Group Inc  
INCORPORATED.

AT THE MEETING OF DIRECTORS OF Material Management Group Inc.  
INCORPORATED, DULY NOTICED AND HELD ON 11/23/20,  
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT WAS:

RESOLVED THAT Richard Lo, BE AND IS HEREBY  
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-FACT OF  
THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON BEHALF OF THIS  
CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS AND TRANSACTIONS WITH  
THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES, DEPARTMENTS, EMPLOYEES OR  
AGENTS, INCLUDING BUT NOT LIMITED TO, THE EXECUTION OF ALL PROPOSALS, PAPERS,  
DOCUMENTS, AFFIDAVITS, BONDS, SURETIES, CONTRACTS AND ACTS AND TO RECEIVE  
ALL PURCHASE ORDERS AND NOTICES ISSUED PURSUANT TO THE PROVISIONS OF ANY  
SUCH PROPOSAL OR CONTRACT, THIS CORPORATION HEREBY RATIFYING, APPROVING,  
CONFIRMING, AND ACCEPTING EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT  
AND ATTORNEY-IN-FACT.

I HEREBY CERTIFY THE FOREGOING TO BE A TRUE  
AND CORRECT COPY OF AN EXCERPT OF THE  
MINUTES OF THE ABOVE DATED MEETING OF THE  
BOARD OF DIRECTORS OF SAID CORPORATION,  
AND THE SAME HAS NOT BEEN REVOKED OR  
RESCINDED.

  
\_\_\_\_\_  
SECRETARY-TREASURER

11/23/20 F. Mimi Lo  
DATE



*Appendix 1.5 — Affidavit Instructions and  
Affidavit Form*

## **Request for Proposal Affidavit Instructions**

- Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, Parish and Parish laws.
- Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.
- Affidavit must be notarized or the affidavit will not be accepted.
- Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.
- Affiant **MUST** select either A or B when required or the affidavit will not be accepted.
- Affiants who select choice A must include an attachment or the affidavit will not be accepted.
- If both choice A and B are selected, the affidavit will not be accepted.
- Affidavit marked N/A will not be accepted.
- It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the Council acts on the matter.
- Failure to submit or properly execute the RFP Affidavit will result in the proposal being deemed non-responsive in accordance with Sec. 2-895(b) of the Jefferson Parish Code of Ordinances

*Instruction sheet may be omitted when submitting the affidavit*



Request for Proposal

AFFIDAVIT

PARISH OF Orleans

PARISH/COUNTY OF State of Louisiana

BEFORE ME, the undersigned authority, personally came and appeared: Richard  
Lo, (Affiant) who after being by me duly sworn, deposed and said that he/she  
is the fully authorized representative of Materials Management Group Inc. (Entity), the party  
who submitted a proposal in response to RFP Number 0414, to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A \_\_\_\_\_

Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B ☒

there are NO campaign contributions made which would require disclosure under Choice A of this section.

Affiant further said:

Debt Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

Choice A \_\_\_\_\_ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B ✓ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

Solicitation of Campaign Contribution Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

Choice A \_\_\_\_\_ Attached hereto is a list of all elected officials of the Parish of Jefferson, whether still holding office at the time of the affidavit or not, where the elected official, individually, either by **telephone or by personal contact**, solicited a campaign contribution or other monetary consideration from the Entity, including the Entity's officers, directors and owners, and employees owning twenty-five percent (25%) or more of the Entity, during the two-year period immediately preceding the date the affidavit is signed. Further, to the extent known to the Affiant, the date of any such solicitation is included on the attached list.

Choice B ✓ there are **NO** solicitations for campaign contributions which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Affiant further said:

Subcontractor Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

Choice A \_\_\_\_\_ Affiant further said that attached is a listing of all subcontractors, excluding full time employees, who may assist in providing professional services for the aforementioned RFP.

Choice B ✓ There are **NO** subcontractors which would require disclosure under Choice A of this section.

[Signature]  
Signature of Affiant

Richard Lo  
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME  
ON THE 16<sup>TH</sup> DAY OF NOVEMBER, 2020.

This document not prepared  
by me, Notary; attesting to  
signatures only.

Gina L Horton  
Notary Public

GINA L. HORTON  
Printed Name of Notary

62569  
Notary/Bar-Roll Number



GINA L. HORTON  
Notary Public  
Notary ID No. 62569  
Orleans Parish, Louisiana

My commission expires at death.





## Appendix 2 — Certificates of Insurance



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
08/03/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Stone Insurance, Inc. 111 Veterans Blvd, Suite 1420  Metairie LA 70005-3055		<b>CONTACT NAME:</b> Sheryl Loup <b>PHONE (A/C, No, Ext):</b> (504) 832-4161 <b>FAX (A/C, No):</b> (504) 835-6657 <b>E-MAIL ADDRESS:</b> sheryl.loup@stone-insurance.com	
<b>INSURED</b> Materials Management Group Inc. 2401 Westbend Pkwy., Ste 3010  New Orleans LA 70114		<b>INSURER(S) AFFORDING COVERAGE</b> <b>INSURER A:</b> Scottsdale Ins. Co. <b>INSURER B:</b> L W C C <b>INSURER C:</b> <b>INSURER D:</b> <b>INSURER E:</b> <b>INSURER F:</b>	
		<b>NAIC #</b> 41297 22350	

## COVERAGES

**CERTIFICATE NUMBER:** 2020/2021 WC Updated

**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.


INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y		VRS0004357	02/11/2020	02/11/2021	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 75,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
	<input type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N Y	N/A	32441-B	08/10/2020	08/10/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Contractors Pollution-Claims Made Professional Liability-Claims Made			VRS0004357	02/11/2020	02/11/2021	Per Condition/Aggregate \$2,000,000 Each Claim/Aggregate \$2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Deductible: General Liability \$2500; Contractors Pollution \$10,000; Professional Liability \$10,000 General Liability, Contractors Pollution & Professional Liability includes Blanket Additional Insured & Blanket Waiver of Subrogation. Workers Compensation includes Blanket Waiver of Subrogation General Liab policy provides pollution coverage for environmental risk assessments & remediation services. SEE NOTES

## CERTIFICATE HOLDER

## CANCELLATION

The Parish of Jefferson, its Districts, Departments & Agencies under the President & the Parish Council 1221 Elmwood Park Blvd. #605 Jefferson LA 70123	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE 
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AGENCY CUSTOMER ID: 00001588

LOC #: \_\_\_\_\_



## ADDITIONAL REMARKS SCHEDULE

Page \_\_\_\_ of \_\_\_\_

AGENCY Stone Insurance, Inc.		NAMED INSURED Materials Management Group Inc.
POLICY NUMBER		
CARRIER	NAIC CODE	EFFECTIVE DATE:

### ADDITIONAL REMARKS

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,**

**FORM NUMBER:** 25 **FORM TITLE:** Certificate of Liability Insurance: Notes

Certificate Holder extended to:  
 The Parish of Jefferson, its Districts, Departments and Agencies under the direction of the Parish President and the Parish Council  
 Department of Inspection and Code Enforcement  
 1221 Elmwood Park Boulevard, Suite 205  
 Jefferson, LA 70123

Resolution #130816





## Appendix 3 — Sample Report

July [REDACTED] 2020

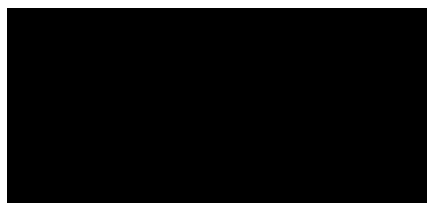
# LEAD-BASED PAINT INSPECTION AND RISK ASSESSMENT REPORT

[REDACTED], METAIRIE, LA 70003

MMG#: [REDACTED]



Prepared for



By



**Materials Management Group, Inc.**  
2401 Westbend Parkway, Suite 3010,  
New Orleans, LA 70114  
504-368-0568 (Office)

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*Important Notice to Clients: Effective January 6, 2020, the EPA issued a final rule that effects dust-lead hazard standards. These standards have been revised from 40 µg/ft<sup>2</sup> and 250 µg/ft<sup>2</sup> to 10 µg/ft<sup>2</sup> and 100 µg/ft<sup>2</sup> on interior floors and windowsills, respectively. These new hazard standards are applicable only to Lead-Based Paint Risk Assessments and Lead-Based Paint Inspection/Risk Assessment Combinations.*

## Executive Summary

Materials Management Group, Inc. (MMG) was contacted by [REDACTED] to conduct a lead-based paint (LBP) inspection and risk assessment at [REDACTED], Metairie, LA 70003 (Property). MMG's certified lead inspectors and risk assessors conducted the lead inspection and risk assessment by performing a visual inspection of the Property, testing all interior and exterior painted surfaces with an XRF spectrophotometer, and collecting dust and soil samples to analyze for lead content, as applicable. The investigation results are summarized in the tables below.

Property Address	Lead-Based Paint	Lead-Based Paint Hazards	Dust-Lead Hazards	Soil-Lead Hazards
[REDACTED] Metairie, LA 70003	No	No	Yes	No

### Summary of Lead-Based Paint Assessment

A total of 166 components at the Property were tested for the potential presence of lead-based paint (LBP) per HUD guidelines. None of these components returned XRF readings that exceeded the 1.0 mg/cm<sup>2</sup> standard for lead in paint. No (0) LBP or LBP hazards were identified at the Property during this combination LBP inspection and risk assessment.

### Summary of Lead Dust Assessment

A total of nine (9) dust wipe samples were collected from various floors and windowsills inside the Property, one (1) of which returned lead levels equal to or greater than the relevant HUD/EPA standards for lead in dust. One (1) dust-lead hazard was identified during this investigation. The results of the lead dust assessment are summarized in the table below.

Location	Results (µg/ft <sup>2</sup> )	Action Level (µg/ft <sup>2</sup> )	Lead Dust Hazards
Foyer Floor	0.55	10	No



Location	Results (µg/ft²)	Action Level (µg/ft²)	Lead Dust Hazards
Room 1 Windowsill	1.4	100	No
Room 2 Floor	0.77	10	No
Room 2 Windowsill	5.55	100	No
Room 5 Floor	None Detected	10	No
Room 7 Floor	0.51	10	No
Room 7 Windowsill	2.7	100	No
<b>Room 8 (corrected to Room 9) Windowsill</b>	<b>1200 D</b>	<b>100</b>	<b>Yes</b>
Room 10 Floor	None Detected	10	No

### Summary of Lead Soil Assessment

Inspectors identified two (2) areas of bare soil at the Property during the LBP inspection and risk assessment. Two (2) composite soil samples were taken; no (0) lead soil hazards were identified on the Property.

Location	Results (µg/ft²)	Action Level(mg/kg)	Lead Soil Hazards
B-Side Yard	<40	1200	No
D-Side Yard	<40	1200	No

### Conclusions and Recommendations

Lead-based paint (LBP) and/or LBP hazards were not detected at the Property based on the field investigation.

One (1) of the dust wipe samples taken from interior horizontal surfaces at the Property returned lead concentrations which exceeded the designated action level for those surfaces. A lead-dust hazard was found on the D-side windowsill in Room 9 (bedroom).

Two (2) area(s) of bare soil exceeding 9 ft² was/were identified at the Property during the LBP RA investigation. However, the composite soil sample taken from this area returned an analytical result below the 1200 mg/kg action level for bare soil. Therefore, no (0) lead soil hazards were identified at the Property.

## 1.0 Introduction

contacted Materials Management Group, Inc. (MMG) to conduct a lead-based paint inspection and risk assessment (LBP RA) investigation at the property located at , Metairie, LA 70003 (Property).

The purpose of this LBP inspection and risk assessment was to identify and assess the potential existence, nature, severity, and location of lead-based paint and lead hazards based on the condition of lead-painted components and the potential presence of lead-contaminated dust or soil at the Property. This report explains the results of the investigation.

### 1.1 Description of Property

The Property is located at , Metairie, LA 70003. The Property comprises a single-story home constructed on a concrete slab foundation using wood frames covered with brick and vinyl exterior siding. The exterior paint described as being in good to fair condition. The A-Side is covered in grass and concrete and contains a driveway and garage. The B- and D-side yards consist of grass and dirt. The C-side yard is covered in grass and contains a shed. The interior of the Property consists of 13 rooms which include a living room, foyer, den, kitchen, dining room, sunroom, garage, two (2) bathrooms, and four (4) bedrooms. All interior walls and ceilings are finished in plaster. The Property is currently occupied. No children under the age of six (6) live at the Property or visit frequently.

### 1.2 Scope of Services

The scope of services included:

- A LBP inspection of all painted surfaces on the exterior and interior of the Property using an X-ray Fluorescence Spectrophotometer (XRF);
- A LBP inspection of all painted surfaces subject to friction, impact, and or disturbance by children under the age of six (6) as determined by an LDEQ-certified Lead Inspector/Risk Assessor;
- A visual survey of the Property to evaluate the building's condition and any deteriorated painted surfaces;
- A collection of dust and soil samples from the Property, as applicable; and
- A determination of relative levels of risk based on the test results of various matrices.

The LBP inspection and risk assessment were performed according to state, local, and federal regulations, using the documented methodologies contained in the *HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (2012 Edition), hereinafter referred to as the HUD Guidelines.

### 1.3 Qualifications

Sue Lichtveld, Jeff Camus, and Justin Crochet of MMG performed the LBP inspection and risk assessment at the Property. Ms. Lichtveld, Mr. Camus, and Mr. Crochet have completed an EPA-sponsored curriculum in Lead Inspection and Risk Assessment Training. They are currently certified by the Louisiana Department of Environmental Quality (LDEQ) as a Lead Inspectors and Lead Risk Assessors. The LDEQ certifications of each individual are listed below. Please refer to Appendix F for the copies of these certifications.

**Table 1.1 MMG Staff Certifications**

Name	Certification	Certification #	Expiration Date
Sue Lichtveld	Lead Inspector	J1210196	7/9/2020
	Lead Risk Assessor	JR210196	7/10/2020
Jeff Camus	Lead Inspector	MI182306	3/5/2021
	Lead Risk Assessor	MR182306	3/6/2021
Justin Crochet	Lead Inspector	MI184257	3/5/2021
	Lead Risk Assessor	MR184257	3/6/2021

## 2.0 Lead-Based Paint Investigation

### 2.1 Methodology

On [REDACTED], Mr. Jeff Camus and Mr. Justin Crochet conducted the LBP survey by using X-ray Fluorescence Spectrophotometers (XRF) - Niton XLP-300A Spectrum Analyzer. They conducted this survey using the procedures dictated by the Louisiana Administrative Code, Title 33 (Environmental Quality), Part III (Air), Chapter 28 (Lead-Based Paint Activities), Section 2803 (Definitions), (LAC 33:III.2811B) and/or in accordance with the HUD Guidelines. All painted surfaces on the exterior and interior of the Property that were reasonable accessible at the time of the inspection were tested. Quality control procedures were applied according to documented methodologies and the XRF manufacturer's instruction.

For the purposes of the XRF survey, "Lead-Based Paint" was identified as paint or other surface coatings that contain a lead concentration equal to or in excess of 1.0 milligram per square centimeter (mg/cm<sup>2</sup>). This definition was taken from LAC 33:III.2811B. The Niton XLP-300A instrument used to conduct the XRF survey measures lead content in milligrams per square centimeter (mg/cm<sup>2</sup>); therefore, the evaluation involved comparing all XRF survey readings to the 1.0 mg/cm<sup>2</sup> regulatory standard for the determination of lead content.

## 2.2 Health and Safety

As required by the U.S. Nuclear Regulatory Commission and the Louisiana Department of Environmental Quality – Radiation Protection Division, all MMG personnel handling the XRF have basic Radiation Safety Training and equipment specific training. A Louisiana state Radiation Material License is required to operate the device. MMG's license number is LA-806-L01.

## 2.3 XRF Calibration

Before leaving the factory, Niton calibrated the XLP 300A. To further assure the best Quality Assurance/Quality Control, the XLP 300A performs a self-calibration every time the device is turned on. Once the device completes its self-calibration, the sampling technician conducts a calibration check using the Niton-supplied NIST Standard Reference Material (001233). This calibration step consists of a series of three checks with lead standard strips. Additional calibration checks are made at the completion of the testing for the day or every four hours, whichever comes first.

## 3.0 Risk Assessment

### 3.1 Methodology

On [REDACTED] Sue Lichtveld conducted a visual inspection of the building to locate the presence of deteriorating paint, assess the extent and causes of the deterioration, and determine whether other potential LBP hazards exist. The results of the visual inspection were recorded on HUD Building Condition Form 5.1 in Appendix E.

On [REDACTED] Sue Lichtveld also collected dust samples from select floors and windowsills throughout the interior of the Property. A one-foot by one-foot area of the floors and a representative area of the windowsill were sampled near areas of deteriorating paint or high foot traffic. Moistened wipes were rubbed over the area in a specified manner, and then placed in 50 mL plastic containers. Dust sampling methodology is described in Chapter 5 of the HUD Guidelines.

Sue Lichtveld collected the soil samples taken on [REDACTED]. Two (2) soil samples were collected on the B- and D-Side yards where greater than nine

square feet of bare soil was present. Soil samples from four to six locations were combined into one composite soil sample for each general area of bare soil. These samples were collected by using a disposal soil plug that was inserted to a depth of 1/2 inch. The techniques for collecting and compositing samples are described in Chapter 15 of the HUD Guidelines.

MMG utilizes EMSL Analytical Laboratory for all lead analysis. Information about EMSL is shown in the table below.

<b>Laboratory:</b>	EMSL Analytical, Inc.
<b>Laboratory Address:</b>	200 Route 130 N, Cinnaminson, NJ 08077 18369 Petroleum Drive, Baton Rouge, LA 70809
<b>Telephone Number:</b>	856-303-2500 (NJ Facility) 225-755-1920 (LA Facility)
<b>Laboratory Certification LELAP Number:</b>	04127 (NJ Facility) 01950 (LA Facility)

EMSL is an EPA-certified laboratory, accredited nationally by the National Environmental Laboratory Accreditation Program (NELAP), and also by the state through the Louisiana Environmental Laboratory Accreditation Program (LELAP).

The laboratory uses EPA method SW846-7420-FLAA to analyze soil samples and EPA method SW846-6010B/C-ICP to analyze dust wipe samples. The Chain-of-Custody (COC) forms in Appendix B list the specific locations of the soil and dust samples. The laboratory results are included in Appendix C. EMSL's accreditation certificates are included in Appendix F.

## 4.0 Results

### 4.1 Visual Inspection

The visual inspection revealed the following:

- The house was occupied at the time of the inspection.
- There interior consisted of plaster walls and ceilings.
- The exterior and interior paint was in intact condition.
- All the yard areas were covered with a combination of grass, dirt, and concrete.
- No children under the age of six (6) live at the Property or visit frequently.

A building condition form was completed during the visual inspection as listed below:

Table 4.1 Building Condition

CONDITION	Yes	No	Comments
Roof missing parts of surfaces (tiles, boards, shakes, etc.)	X		
Roof has holes or large cracks	X		Front by gutter; sunroom & garage collapsed
Gutters or downspouts broken	X		
Chimney masonry cracked, bricks loose or missing, obviously out of plumb		X	
Exterior or interior walls have obvious large cracks or holes, requiring more than routine pointing (if masonry) or painting	X		
Exterior siding has missing boards or shingles	X		Front by gutter
Water stains on interior walls or ceilings	X		
Walls or ceilings deteriorated	X		Back hallway and main bedroom
More than "very small" amount of paint in a room deteriorated		X	
Two or more windows or doors broken, missing, or boarded up		X	
Porch or steps have major elements broken, missing, or boarded up		X	
Foundation has major cracks, missing material, structure leans, or visibly unsound		X	

The condition of painted surfaces was assessed as listed in Table 4.2.

Table 4.2 Paint Conditions on Selected Surfaces

Building Component	Paint Condition
Building Siding	N/A
Exterior Trim	Intact
Exterior Windows	Intact
Exterior Doors	Intact
Railings	N/A
Interior Doors	Intact
Ceilings	Fair
Interior Walls	Intact
Interior Windows	Intact

Building Component	Paint Condition
Interior Floors	Intact
Interior Trim	Intact
Stairways	N/A
Kitchen Cabinets	Intact
Bathroom Cabinets	Intact
Porch Surface	N/A

\* The painted surface condition was rated based on following HUD evaluation criteria in Table 4.3.

**Table 4.3 HUD Evaluation Criteria for Painting Surface Condition**

Type of Building Component	Total Area of Deteriorated Paint on Each Component		
	Intact	Fair	Poor
Exterior components with large surface areas	Entire surface is intact	Less than or equal to 10 square feet	More than 10 square feet
Interior components with large surface areas (walls, ceilings, floors, doors).	Entire surface is intact	Less than or equal to 2 square feet	More than 2 square feet
Interior and exterior components with small surface areas (window sills, baseboards, soffits, trim)	Entire surface is intact	Less than or equal to 10 percent of the total surface area of the component	More than 10 percent of the total surface area of the component

## 4.2 Results of Lead-Based Paint Investigation

A total of 166 components at the Property were tested for lead content per HUD guidelines. None (0) of these components returned XRF readings that exceeded the 1.0 mg/cm<sup>2</sup> standard for lead in paint. No LBP hazards were identified at the Property during this LBP risk assessment. A full summary of all XRF results are included in Appendix D.

## 4.3 Results of Dust Investigation

The results of dust wipe sampling inside the Property are summarized in Table 4.5. Any surface dust wipe sample with a lead concentration exceeding 10 µg/ft<sup>2</sup> when collected from interior floors or 100 µg/ft<sup>2</sup> when collected from interior windowsills would be considered a lead dust hazard. One (1) dust-lead hazard was identified during this LBP inspection and RA Investigation.

**Table 4.5 Results of Dust Samples Analyzed**

Sample ID	Location	Results (µg/ft²)	Action Level (µg/ft²)	Lead Dust Hazards
5512LO-01	Foyer Floor	0.55	10	No
5512LO-02	Room 1 Windowsill	1.4	100	No
5512LO-03	Room 2 Floor	0.77	10	No
5512LO-04	Room 2 Windowsill	5.5	100	No
5512LO-05	Room 5 Floor	None Detected	10	No
5512LO-06	Room 7 Floor	0.51	10	No
5512LO-07	Room 7 Windowsill	2.7	100	No
<b>5512LO-08</b>	<b>Room 8 (corrected to Room 9) Windowsill</b>	<b>1200 D</b>	<b>100</b>	<b>Yes</b>
5512LO-09	Room 10 Floor	None Detected	10	No

#### 4.4 Results of Soil Investigation

The results of soil sampling outside the building are summarized in Table 4.6. Any soil sample containing a lead concentration exceeding 400 µg/g when collected from a high-contact play area, or 1,200 µg/g when collected from a drip line or the general yard would be considered a lead soil hazard. No lead soil hazards were identified at the Property as a result of this LBP RA Investigation.

**Table 4.6 Results of Soil Samples Analyzed**

Sample ID	Location	Results (µg/ft²)	Action Level (µg/ft²)	Lead Soil Hazards
S-5512LO-01	B-Side Yard	<40	1200	No
S-5512LO-02	D-Side Yard	<40	1200	No

## 5.0 Conclusions and Recommendations

Lead-based paint and/or LBP hazards were not detected at the Property based on the field investigation.

One (1) of the dust wipe samples taken from interior horizontal surfaces at the Property returned lead concentrations which exceeded the designated action level for those surfaces. A lead-dust hazard was found on the D-side windowsill in Room 9 (bedroom).

Two (2) area(s) of bare soil exceeding 9 ft² was/were identified at the Property during the LBP RA investigation. However, the composite soil sample taken from this area returned an analytical result below the 1200 mg/kg action level for bare soil. Therefore, no (0) lead soil hazards were identified at the Property.



### 5.1 Recommendation for Dust-Lead Hazard Control

MMG recommends that a complete cleaning of the surfaces that have dust-lead hazards be conducted. Please refer to Control Option #7 – Special Cleaning for Floors in Appendix G for detailed cleaning procedures.

### 5.2 Recommendations for Reevaluation and Ongoing Monitoring

All known LBP/lead hazard surfaces should be evaluated annually and whenever information indicates a possible problem. HUD Guidelines recommends that ongoing monitoring should consist of periodic reevaluation by a certified risk assessor and annual visual inspection by owner. Reevaluation should include a detailed visual examination of all known LBP/lead hazards to determine if paint is still intact with documentation of results. If the owner chooses to abate or control these LBP/lead hazard surfaces, a certified lead risk assessor should be retained to reevaluate the area (including visual inspection and dust sampling) following any hazard control activity, repair, or remodeling to ensure lead dust levels are below the HUD and EPA-required action levels. Additionally, lead-contaminated dust can re-accumulate on surfaces within the home; therefore, a dust removal plan should involve resident education and continued cleaning.

## 6.0 Inspection Limitation

This LBP risk assessment was planned, developed, and implemented by MMG (the Preparer) based on the professional experience of MMG personnel and in a manner consistent with commonly accepted industry standards. This risk assessment was conducted in accordance with HUD Guidelines. However, the Preparer cannot guarantee and does not warrant that this evaluation has identified all adverse environmental factors and/or conditions affecting this property on the date of the evaluation. The results reported and conclusions reached by the Preparer are solely for the benefit of the [REDACTED]

[REDACTED]. The results and opinions in this report, based solely on the conditions found at the Property on the date of the evaluation, are valid only for that date. The risk assessment investigation and hazard assessment contained in the report are valid for one (1) year from the date of the investigation. The Preparer assumes no obligation to advise the client of any changes in any real or potential lead-based paint hazards at this residence beyond the date of the property evaluation.

## 7.0 Disclosure

If LBP hazards were identified on the site, results of this inspection must be provided to new lessees (tenants) and prospective buyers of this property under

Federal law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report must be provided by the owner to prospective buyers and it must be made available to prospective tenants, and to renewing tenants if they have not been provided the information previously. The inspector's plain language summary of the report must be provided to the client (e.g., property owner or manager) when the complete report is provided. The landlord (lessor) or seller is also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency and include the Lead Warning Statement in the leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards. Complete disclosure requires the landlord/sellers and renters/buyers (and their agents) to sign and date acknowledgement that the required information and materials were provided and received. Also, prospective buyers must be provided the opportunity to have their own lead based paint inspection, lead hazard screen or risk assessment performed before the purchase agreement is signed; the standard period is 10 days, but this period may be changed or waived by agreement between the seller and prospective buyer. EPA regulations require the inspector to keep the inspection report for at least 3 years.

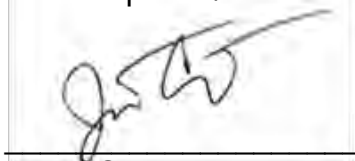
## 8.0 Signatures



Sue Lichtveld, MSPH  
Project Manager, Environmental Health Scientist  
Lead Inspector/Risk Assessor (JI210196/JR210196)



Jeff Camus  
Lead Inspector/Risk Assessor (MI182306/MR182306)

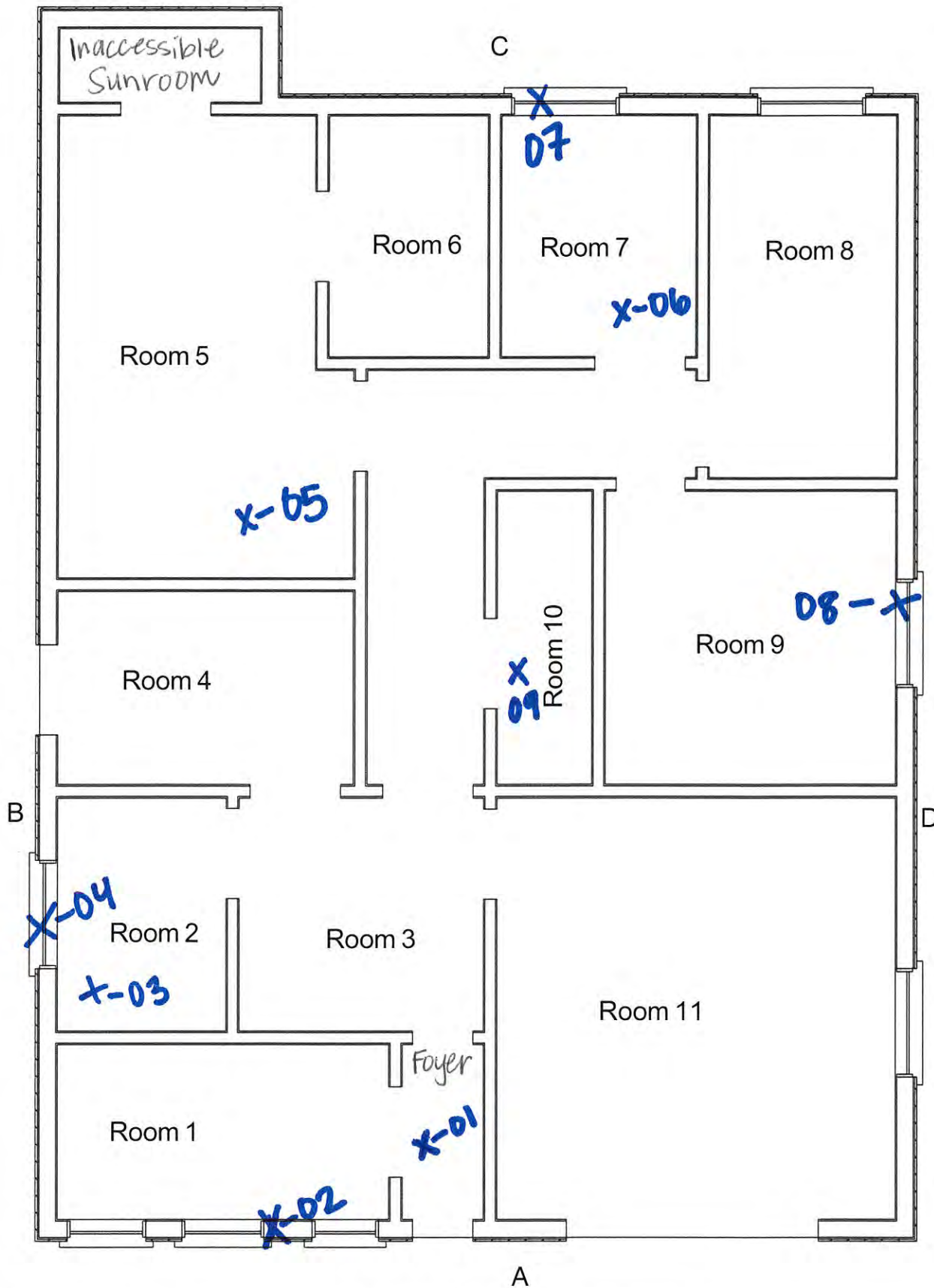


Justin Crochet  
Lead Inspector/Risk Assessor (MI184257/MR184257)

**Appendices:**

<b>Appendix A</b>	<b>Site Plan and Photographs</b>
<b>Appendix B</b>	<b>Laboratory Chain-of-Custody Forms</b>
<b>Appendix C</b>	<b>Laboratory Testing Results</b>
<b>Appendix D</b>	<b>LBP Inspection - XRF Results</b>
<b>Appendix E</b>	<b>HUD Forms</b>
<b>Appendix F</b>	<b>Accreditation Certificates</b>
<b>Appendix G</b>	<b>Controls of Lead-Based Paint Hazards</b>

## **Appendix A: Site Plan and Photographs**



DIRECTION		
LEGEND	Interior Walls	A: Wall Facing Street Side for the Address B: Wall to the Left of A C: Wall Opposite A D: Wall to the Right of A
	Exterior Walls	A: Wall Facing Street Side for the Address B: Wall to the Left of A C: Wall Opposite A D: Wall to the Right of A
SCALE	Not To Scale	

DRAWN BY: JHC	Date:	FILE:	<b>SITE DIAGRAM</b>  Metairie, LA 70003		<b>MATERIALS MANAGEMENT GROUP, INC.</b>	
			<b>FIGURE 1</b>		3520 GENERAL DEGAULLE SUITE 3010 NEW ORLEANS, LOUISIANA 70114 PHONE: 504-368-0568    FAX: 504-368-8403	



**Photograph #1**  
Front of the Property



**Photograph #2**  
B-Side of the Property



**Photograph #3**  
C-Side of the Property



**Photograph #4**  
D-side of the Property





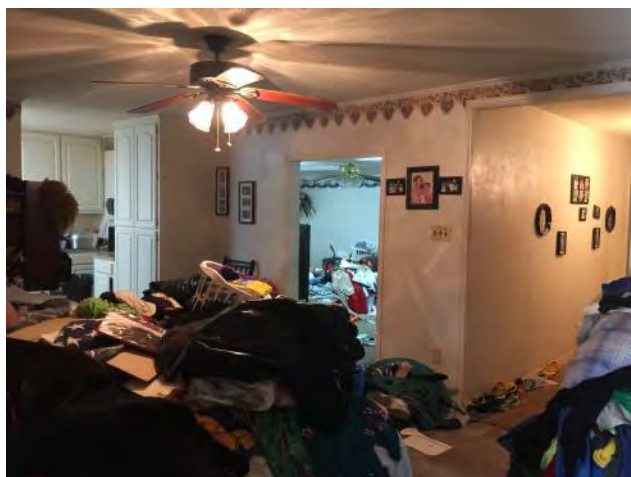
**Photograph #5**

Room 1



**Photograph #6**

Room 2



**Photograph #7**

Room 3



**Photograph #8**

Room 4



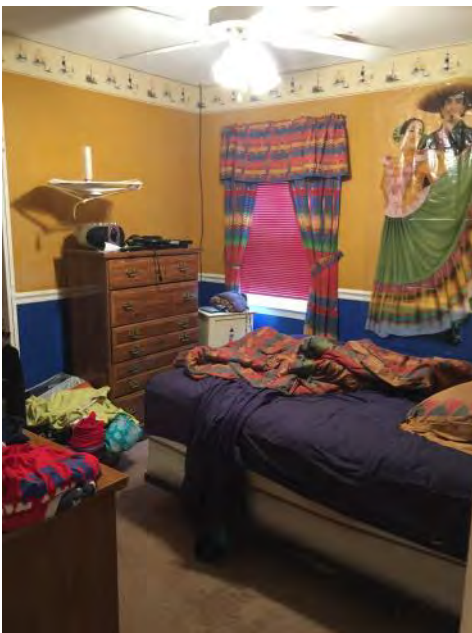
**Photograph #9**

Room 5



**Photograph #10**

Room 6



**Photograph #11**

Room 7



**Photograph #12**

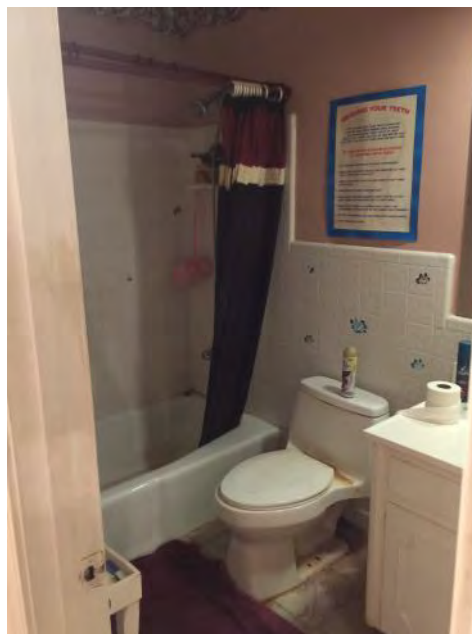
Room 8





**Photograph #13**

Room 9



**Photograph #14**

Room 10



**Photograph #15**

Room 11

## **Appendix B: Laboratory Chain-of-Custody Forms**



# Lead (Pb) Chain of Custody

## EMSL Order ID (Lab Use Only):

EMSL Analytical, Inc.  
Suite 100 11931 Industriplex Blvd  
Baton Rouge, LA 70809  
PHONE: (225) 755-1920  
FAX: (225) 755-1989

Company : Materials Management Group		EMSL-Bill to: <input checked="" type="checkbox"/> Different <input type="checkbox"/> Same If Bill to is Different note Instructions in Comments**	
Street: 3520 General DeGaulle Dr. Ste 3010		Third Party Billing requires written authorization from third party	
City: New Orleans	State/Province: LA	Zip/Postal Code: 70114	Country: USA
Report To (Name): Mia Barrios		Telephone #: 504 368 0568	
Email Address: miab@mngnola.com		Fax #: 504 368 8403	Purchase Order: [REDACTED]
Project Name/Number: [REDACTED]		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: Louisiana		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide			
Matrix	Method	Instrument	Reporting Limit
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter
Wipe* <input checked="" type="checkbox"/> ASTM non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe
	SW846-6010B or C	ICP-AES	1.0 µg/wipe
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter
Other:			
Name of Sampler: Justin Crochet		Signature of Sampler: [Signature]	
Sample #	Location	Volume/Area	Date/Time Sampled
1 S-01	B side Side Yard	12 sq. ft.	[REDACTED]
2 S-02	D side Side Yard	12 sq. ft.	[REDACTED]
Client Sample #'s		Total # of Samples: 12	
Relinquished (Client): MMG	Date: [REDACTED]	Time: 17:00	
Received (Lab): [Signature] EFY	Date: [REDACTED]	Time: 10 AM	
Comments: Bill To: MMG/Materials Management Group, Inc., 3520 General DeGaulle Drive, Suite 3010, New Orleans, LA, 70114, United States Payable Phone: 504-368-0568			

SPLIT < CHM-10  
Pb - 2

(12) EL



**LEAD (Pb) CHAIN OF CUSTODY**  
**EMSL ORDER ID** *(Lab Use Only):*

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EMSL Analytical, Inc.  
Suite 100 11931 Industriplex Blvd  
Baton Rouge, LA 70809  
PHONE: (225) 755-1920  
FAX: (225) 755-1989*Additional Pages of the Chain of Custody are only necessary if needed for additional sample information*

Sample #	Location		Volume/Area	Date/Time	Sampled
01	Foyer	FL	12x12		
02	Rm 1	WS	5.5 X 33.5		
03	Rm 2	FL	12x12		
04	Rom 2	WS	5 X 38		
05	Rm 5	Carpet Floor	12x12		
06	Rm 7	Carpet Floor	12x12		
07	Rm 7	WS	4 X 38		
08	Rm 8	WS	5.25 X 38		
09	Rm 10	FL	12x12		
10	Blank				
Comments/Special Instructions:					

## **Appendix C: Laboratory Testing Results**



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

**Mia Barrios**  
**MMG/Materials Management Group, Inc.**  
**2401 Westbend Parkway**  
**Suite 3010**  
**New Orleans, LA 70114**

Phone: (504) 368-0568

Fax: (504) 368-8409

2020

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 2020. The results are tabulated on the attached data pages for the following client designated project:

The reference number for these samples is EMSL Order . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry  
Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>[EnvChemistry2@emsl.com](mailto:EnvChemistry2@emsl.com)

EMSL Order: [REDACTED]

CustomerID: MATM50

CustomerPO: [REDACTED]

ProjectID: [REDACTED]

Attn: **Mia Barrios**  
**MMG/Materials Management Group, Inc.**  
**2401 Westbend Parkway**  
**Suite 3010**  
**New Orleans, LA 70114**

Phone: (504) 368-0568

Fax: (504) 368-8409

Received: [REDACTED]

Project: [REDACTED]

**Analytical Results**

**Client Sample Description** [REDACTED]-01  
Foyer  
**Collected:** [REDACTED]  
**Lab ID:** 012006555-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
3050B/6010C	Lead	0.55	0.50 µg/ft²	[REDACTED]	[REDACTED]

**Client Sample Description** [REDACTED]-02  
Rm 1  
**Collected:** [REDACTED]  
**Lab ID:** 012006555-0002

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
3050B/6010C	Lead	1.4	0.39 µg/ft²	[REDACTED]	[REDACTED]

**Client Sample Description** [REDACTED]-03  
Rm 2  
**Collected:** [REDACTED]  
**Lab ID:** 012006555-0003

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
3050B/6010C	Lead	0.77	0.50 µg/ft²	[REDACTED]	[REDACTED]

**Client Sample Description** [REDACTED]-04  
Rm 2  
**Collected:** [REDACTED]  
**Lab ID:** 012006555-0004

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
3050B/6010C	Lead	5.5	0.38 µg/ft²	[REDACTED]	[REDACTED]

**Client Sample Description** [REDACTED]-05  
Rm 5  
**Collected:** [REDACTED]  
**Lab ID:** 012006555-0005

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
3050B/6010C	Lead	ND	0.50 µg/ft²	[REDACTED]	[REDACTED]

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>[EnvChemistry2@emsl.com](mailto:EnvChemistry2@emsl.com)

EMSL Order: [REDACTED]

CustomerID: MATM50

CustomerPO: [REDACTED]

ProjectID: [REDACTED]

Attn: **Mia Barrios**  
**MMG/Materials Management Group, Inc.**  
**2401 Westbend Parkway**  
**Suite 3010**  
**New Orleans, LA 70114**

Phone: (504) 368-0568

Fax: (504) 368-8409

Received: [REDACTED]

Project: [REDACTED]

**Analytical Results**

**Client Sample Description** [REDACTED]-06  
Rm 7

**Collected:** [REDACTED]

**Lab ID:** 012006555-0006

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

3050B/6010C	Lead	0.51	0.50 µg/ft²	[REDACTED]	[REDACTED]
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**Client Sample Description** [REDACTED]-07  
Rm 7

**Collected:** [REDACTED]

**Lab ID:** 012006555-0007

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
--------	-----------	--------	----------	------------------------	----------------------------

**METALS**

3050B/6010C	Lead	2.7	0.47 µg/ft²	[REDACTED]	[REDACTED]
-------------	------	-----	-------------	------------	------------

**Client Sample Description** [REDACTED]-08  
Rm 8

**Collected:** [REDACTED]

**Lab ID:** 012006555-0008

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
--------	-----------	--------	----------	------------------------	----------------------------

**METALS**

3050B/6010C	Lead	1200 D	9.0 µg/ft²	[REDACTED]	[REDACTED]
-------------	------	--------	------------	------------	------------

**Client Sample Description** [REDACTED]-09  
Rm 10

**Collected:** [REDACTED]

**Lab ID:** 012006555-0009

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
--------	-----------	--------	----------	------------------------	----------------------------

**METALS**

3050B/6010C	Lead	ND	0.50 µg/ft²	[REDACTED]	[REDACTED]
-------------	------	----	-------------	------------	------------

**Client Sample Description** [REDACTED]-10  
Blank

**Collected:** [REDACTED]

**Lab ID:** 012006555-0010

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
--------	-----------	--------	----------	------------------------	----------------------------

**METALS**

3050B/6010C	Lead	ND	0.50 µg/wipe	[REDACTED]	[REDACTED]
-------------	------	----	--------------	------------	------------

**Definitions:**

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

D - Dilution Sample required a dilution which was used to calculate final results



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>[cinnaminsonleadlab@emsl.com](mailto:cinnaminsonleadlab@emsl.com)

EMSL Order: [REDACTED]  
CustomerID: MATM50  
CustomerPO: [REDACTED]  
ProjectID: [REDACTED]

Attn: **Mia Barrios**  
**MMG/Materials Management Group, Inc.**  
**2401 Westbend Parkway**  
**Suite 3010**  
**New Orleans, LA 70114**

Phone: (504) 368-0568  
Fax: (504) 368-8409  
Received: [REDACTED]  
Collected: [REDACTED]

Project: [REDACTED]

**Test Report: Lead in Soils by Flame AAS (SW 846 3050B/7000B)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
S-[REDACTED]-01	202005693-0001	[REDACTED]	[REDACTED]	0.5172 g	<40 mg/Kg
	Site: B Side - Side Yard				
S-[REDACTED]-02	202005693-0002	[REDACTED]	[REDACTED]	0.5127 g	<40 mg/Kg
	Site: D Side - Side Yard				

Phillip Worby, Lead Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Analysis following Lead in Soil/Solids by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ Method SW 846 7000B replaces EPA 7420 for lead analysis and is an equivalent method. NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA 1877, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

## **Appendix D: LBP Inspection – XRF Results**



## Daily XRF Calibration Form

Date: [REDACTED]

MMG Project #: [REDACTED]

Site: [REDACTED]

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

Device: Niton XLP 300A Serial No. 94107

NIST SRM Used 1.0 mg/cm<sup>2</sup> +/- 0.1 mg/cm<sup>2</sup>

Initial Calibration Check				
First Reading (mg/cm <sup>2</sup> ) Sample #:	Second Reading (mg/cm <sup>2</sup> ) Sample #:	Third Reading (mg/cm <sup>2</sup> ) Sample #:	Average	Does Cal Average fall within Tolerance 1.2 to 0.8 mg/cm <sup>2</sup> <input checked="" type="radio"/> Yes <input type="radio"/> No*
1.0	0.9	1.0	1.0	
Battery Level: _____ Volts Comment: _____				
4-hour Calibration Check				
First Reading (mg/cm <sup>2</sup> ) Sample #:	Second Reading (mg/cm <sup>2</sup> ) Sample #:	Third Reading (mg/cm <sup>2</sup> ) Sample #:	Average	Does Cal Average fall within Tolerance 1.2 to 0.8 mg/cm <sup>2</sup> <input type="radio"/> Yes <input type="radio"/> No*
Battery Level: _____ Volts Comment: _____				
Final Calibration Check				
First Reading (mg/cm <sup>2</sup> ) Sample #:	Second Reading (mg/cm <sup>2</sup> ) Sample #:	Third Reading (mg/cm <sup>2</sup> ) Sample #:	Average	Does Cal Average fall within Tolerance 1.2 to 0.8 mg/cm <sup>2</sup> <input checked="" type="radio"/> Yes <input type="radio"/> No*
0.9	0.9	0.9	0.9	
Battery Level: _____ Volts Comment: _____				

\* If the difference of the Calibration Average from the NIST SRM film value is not within the allowable tolerance, consult the manufacture's recommendations.

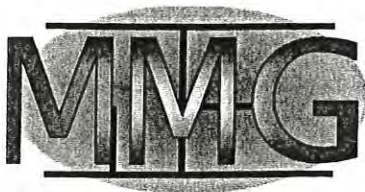
Is the structure occupied? ☐ Yes ☐ No  
Are any of the occupants age 6 or less? ☐ Yes ☐ No  
Is the property being performed for HUD? ☐ Yes ☐ No  
Is the property under Section 8 funding? ☐ Yes ☐ No

Was a map or drawing provided for the property by the Client? ☐ Yes ☐ No

Comments: \_\_\_\_\_

Completed By: JHC

(504) 368-0568



# Daily XRF Calibration Form

Date:                     

MMG Project #:                     

Site:                      Metairie, La. 70003

Contact:                      Phone:                     

Device: Niton XLP 300A Serial No. 99507

NIST SRM Used           1.0           mg/cm<sup>2</sup> +/-           0.1           mg/cm<sup>2</sup>

Initial Calibration Check				
First Reading (mg/cm <sup>2</sup> ) Sample #:	Second Reading (mg/cm <sup>2</sup> ) Sample #:	Third Reading (mg/cm <sup>2</sup> ) Sample #:	Average	Does Cal Average fall within Tolerance 1.2 to 0.8 mg/cm <sup>2</sup> <input type="checkbox"/> Yes <input type="checkbox"/> No*
<u>1.0</u>	<u>1.2</u>	<u>1.0</u>	<u>1.1</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*
Battery Level: <u>          </u> Volts Comment: <u>                    </u>				
4-hour Calibration Check				
First Reading (mg/cm <sup>2</sup> ) Sample #:	Second Reading (mg/cm <sup>2</sup> ) Sample #:	Third Reading (mg/cm <sup>2</sup> ) Sample #:	Average	Does Cal Average fall within Tolerance 1.2 to 0.8 mg/cm <sup>2</sup> <input type="checkbox"/> Yes <input type="checkbox"/> No*
				<input type="checkbox"/> Yes <input type="checkbox"/> No*
Battery Level: <u>          </u> Volts Comment: <u>                    </u>				
Final Calibration Check				
First Reading (mg/cm <sup>2</sup> ) Sample #:	Second Reading (mg/cm <sup>2</sup> ) Sample #:	Third Reading (mg/cm <sup>2</sup> ) Sample #:	Average	Does Cal Average fall within Tolerance 1.2 to 0.8 mg/cm <sup>2</sup> <input type="checkbox"/> Yes <input type="checkbox"/> No*
<u>1.2</u>	<u>1.2</u>	<u>1.2</u>	<u>1.2</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*
Battery Level: <u>          </u> Volts Comment: <u>                    </u>				

\* If the difference of the Calibration Average from the NIST SRM film value is not within the allowable tolerance, consult the manufacture's recommendations.

Is the structure occupied? ☐ Yes ☐ No  
Are any of the occupants age 6 or less? ☐ Yes ☐ No  
Is the property being performed for HUD? ☐ Yes ☐ No  
Is the property under Section 8 funding? ☐ Yes ☐ No

Was a map or drawing provided for the property by the Client? ☐ Yes ☐ No

Comments:                     

Completed By:

## Lead-Based Paint Inspection - XRF Results

Client: [REDACTED]								
Survey Location: [REDACTED] Metairie, LA 70003								
Survey Date: [REDACTED]								
Inspector: Justin Crochet				License #	MI184257	XRF Serial #	94107	
Reading No	Room	Component	Substrate	Side	Color	Condition	Results	PbC mg/cm2
5				Calibrate	Red		Positive	1
6				Calibrate	Red		Null	1
7				Calibrate	Red		Null	1
8				Calibrate	Red		Negative	0.9
9				Calibrate	Red		Null	0.9
10				Calibrate	Red		Positive	1
11	Foyer	Door Casing	Wood	A	White	Intact	Negative	0
12	Foyer	Wall	Drywall	A	White	Intact	Negative	0
13	Foyer	Wall	Drywall	B	White	Intact	Negative	0
14	Foyer	Wall	Drywall	C	White	Intact	Negative	0
15	Foyer	Wall	Drywall	D	White	Intact	Negative	0
16	Foyer	Window Sill	Wood	B	White	Intact	Negative	0
17	Foyer	Post	Wood	B	White	Intact	Negative	0
18	Foyer	Post 2	Wood	B	White	Intact	Negative	0
19	Foyer	Window Sill 2	Wood	B	White	Intact	Negative	0
20	Foyer	Door Casing	Wood	B	White	Intact	Negative	0
21	Foyer	Door Casing	Wood	C	White	Intact	Negative	0
22	Foyer	Baseboard	Wood	Floor	White	Intact	Negative	0
23	Foyer	Ceiling	Drywall	Ceiling	White	Intact	Negative	0
24	Room 1	Ceiling	Drywall	Ceiling	White	Intact	Null	0
25	Room 1	Ceiling	Drywall	Ceiling	White	Intact	Null	0
26	Room 1	Ceiling	Drywall	Ceiling	White	Intact	Negative	0
27	Room 1	Window Sill	Wood	A	White	Intact	Negative	0
28	Room 1	Window Sill 2	Wood	A	White	Intact	Negative	0
29	Room 1	Window Sill 3	Wood	A	White	Intact	Negative	0
30	Room 1	Wall	Drywall	A	White	Intact	Negative	0
31	Room 1	Wall	Drywall	B	White	Intact	Negative	0.13

## Lead-Based Paint Inspection - XRF Results

<b>Client:</b> [REDACTED]								
<b>Survey Location:</b> [REDACTED] Metairie, LA 70003								
<b>Survey Date:</b> [REDACTED]								
<b>Inspector:</b> Justin Crochet				<b>License #</b>	MI184257	<b>XRF Serial #</b>	94107	
Reading No	Room	Component	Substrate	Side	Color	Condition	Results	PbC mg/cm2
32	Room 1	Wall	Drywall	C	White	Intact	Negative	0
33	Room 1	Wall	Drywall	D	White	Intact	Negative	0
34	Room 1	Door Casing	Wood	C	White	Intact	Negative	0.02
35	Room 2	Wall	Drywall	A	White	Intact	Negative	0
36	Room 2	Wall	Drywall	B	White	Intact	Negative	0
37	Room 2	Wall	Drywall	C	White	Intact	Negative	0
38	Room 2	Wall	Drywall	D	White	Intact	Negative	0.16
39	Room 2	Window Sill	Wood	B	White	Intact	Negative	0
40	Room 2	Baseboard	Wood	Floor	White	Intact	Negative	0
41	Room 2	Ceiling	Cinderblock	Ceiling	White	Intact	Negative	0
42	Room 2	Ceiling	Drywall	Ceiling	White	Intact	Negative	0
43	Room 3	Ceiling	Drywall	Ceiling	White	Intact	Negative	0
44	Room 3	Wall	Wood	A	White	Intact	Negative	0
45	Room 3	Wall	Wood	B	White	Intact	Negative	0
46	Room 3	Wall	Drywall	C	White	Intact	Negative	0
47	Room 3	Wall	Wood	D	White	Intact	Negative	0
48	Room 3	Door	Wood	D	White	Intact	Negative	0
49	Room 3	Door Casing	Wood	D	White	Intact	Negative	0
50	Room 3	Door Casing	Wood	A	White	Intact	Negative	0
51	Room 3	Door Casing	Wood	C	White	Intact	Negative	0.01
52	Room 4	Door Casing	Wood	A	White	Intact	Negative	0
53	Room 4	Wall	Drywall	A	White	Intact	Negative	0
54	Room 4	Wall	Drywall	B	White	Intact	Negative	0
55	Room 4	Wall	Drywall	C	White	Intact	Negative	0
56	Room 4	Wall	Drywall	D	White	Intact	Negative	0
57	Room 4	Door Casing	Wood	B	White	Intact	Negative	0
58	Room 4	Door	Wood	B	White	Intact	Negative	0

## Lead-Based Paint Inspection - XRF Results

<b>Client:</b> [REDACTED]								
<b>Survey Location:</b> [REDACTED] Metairie, LA 70003								
<b>Survey Date:</b> [REDACTED]								
<b>Inspector:</b> Justin Crochet				<b>License #</b>	MI184257	<b>XRF Serial #</b>	94107	
Reading No	Room	Component	Substrate	Side	Color	Condition	Results	PbC mg/cm2
59	Room 4	Ceiling	Drywall	Ceiling	White	Intact	Negative	0
60	Room 5	Ceiling	Drywall	Ceiling	White	Intact	Negative	0
61	Room 5	Wall	Drywall	A	White	Intact	Negative	0
62	Room 5	Wall	Drywall	B	White	Intact	Negative	0
63	Room 5	Wall	Drywall	C	White	Intact	Negative	0
64	Room 5	Wall	Drywall	D	White	Intact	Negative	0.03
65	Room 6	Door	Wood	B	White	Intact	Negative	0
66	Room 6	Door Casing	Wood	B	White	Intact	Negative	0
67	Room 6	Door Jamb	Wood	B	White	Intact	Negative	0.01
68	Room 6	Ceiling	Drywall	Ceiling	White	Intact	Negative	0.02
69				Calibrate	Red		Null	0.9
70				Calibrate	Red		Null	1.1
71				Calibrate	Red		Negative	0.9
72				Calibrate	Red		Negative	0.9
73				Calibrate	Red		Null	1

## Lead-Based Paint Inspection - XRF Results

Client: [REDACTED]								
Survey Location: [REDACTED] Metairie, LA 70003								
Survey Date: [REDACTED]								
Inspector: Jeff Camus				License #	MI182306	XRF Serial #	99507	
Reading No	Room	Component	Substrate	Side	Color	Condition	Results	PbC mg/cm2
2				Calibrate	Red		Positive	1
3				Calibrate	Red		Positive	1.2
4				Calibrate	Red		Positive	1
5	Exterior	Soffit	Wood	A	White	Poor	Negative	0
6	Exterior	Column	Wood	A	White	Fair	Negative	0
7	Exterior	Door Jamb	Wood	A	White	Intact	Null	0
8	Exterior	Door Jamb	Wood	A	White	Intact	Negative	0
9	Exterior	Door	Wood	B	White	Intact	Negative	0
10	Exterior	Floor	Wood	B	White	Poor	Negative	0
11	Exterior	Wall	Wood	B	White	Fair	Negative	0
12	Exterior	Door Casing 2	Wood	B	Blue	Poor	Negative	0
13	Exterior	Soffit	Wood	B	Gray	Fair	Negative	0
14	Exterior	Fascia	Wood	B	Gray	Poor	Negative	0
15	Exterior	Fascia	Wood	C	Gray	Fair	Negative	0
16	Exterior	Soffit	Wood	C	Gray	Poor	Negative	0
17	Exterior	header	Wood	C	Gray	Fair	Negative	0
18	Exterior	Wall	Wood	C	Gray	Poor	Negative	0
19	Exterior	Window Casing	Wood	C	Blue	Poor	Negative	0
20	Exterior	Cornerboard	Wood	C	Blue	Poor	Negative	0
21	Exterior	Cornerboard	Wood	D	Blue	Poor	Negative	0
22	Exterior	Wall	Wood	D	Gray	Poor	Negative	0
23	Exterior	Door Casing	Wood	D	Blue	Poor	Negative	0
24	Exterior	Fascia	Wood	D	Gray	Poor	Negative	0
25	Exterior	Gable fascia	Wood	B	White	Poor	Negative	0.01
26	Exterior	Gable soffit	Wood	B	White	Poor	Negative	0.01
27	Exterior	Gable soffit	Wood	D	White	Intact	Negative	0
28	Exterior	Gable fascia	Wood	D	White	Poor	Negative	0



## Lead-Based Paint Inspection - XRF Results

Client: [REDACTED]								
Survey Location: [REDACTED] Metairie, LA 70003								
Survey Date: [REDACTED]								
Inspector: Jeff Camus				License #	MI182306	XRF Serial #	99507	
Reading No	Room	Component	Substrate	Side	Color	Condition	Results	PbC mg/cm2
29	11	Wall	Drywall	B	White	Intact	Negative	0
30	11	Door	Wood	B	White	Intact	Negative	0
31	11	Door Casing	Wood	B	White	Intact	Negative	0
32	11	Door Jamb	Wood	B	White	Intact	Null	0
33	11	Door Jamb	Wood	B	White	Intact	Negative	0
34	11	Wall	Drywall	C	White	Fair	Negative	0
35	11	Wall	Drywall	D	White	Fair	Negative	0
36	11	Door Casing	Wood	D	White	Intact	Negative	0
37	11	Door	Wood	D	White	Intact	Negative	0
38	11	Ceiling	Drywall	Ceiling	White	Poor	Negative	0.02
39	10	Ceiling	Drywall	Ceiling	White	Intact	Null	0
40	10	Ceiling	Drywall	Ceiling	White	Intact	Null	0
41	10	Ceiling	Drywall	Ceiling	White	Intact	Negative	0
42	10	Wall	Drywall	A	Pink	Intact	Negative	0
43	10	Door Casing	Wood	A	White	Intact	Negative	0
44	10	Door	Wood	A	White	Intact	Negative	0
45	10	Door Jamb	Wood	A	White	Intact	Negative	0
46	10	Door Jamb	Wood	B	White	Intact	Negative	0
47	10	Door Casing	Wood	B	White	Fair	Negative	0
48	10	Door	Wood	B	White	Fair	Null	0
49	10	Door	Wood	B	White	Fair	Negative	0
50	10	Wall	Drywall	B	Pink	Intact	Negative	0
51	10	Wall	Drywall	C	Pink	Intact	Negative	0
52	10	Wall	Drywall	D	Pink	Intact	Negative	0
53	10	Cabinet	Wood	D	White	Intact	Negative	0
54	9	Wall	Drywall	A	White	Intact	Negative	0
55	9	Wall	Drywall	B	White	Intact	Negative	0

## Lead-Based Paint Inspection - XRF Results

Client: [REDACTED]								
Survey Location: [REDACTED] Metairie, LA 70003								
Survey Date: [REDACTED]								
Inspector: Jeff Camus				License #	MI182306	XRF Serial #	99507	
Reading No	Room	Component	Substrate	Side	Color	Condition	Results	PbC mg/cm2
56	9	Door Casing	Wood	B	White	Intact	Negative	0
57	9	Door Casing	Wood	C	White	Intact	Negative	0
58	9	Door Jamb	Wood	C	White	Intact	Negative	0
59	9	Door	Wood	C	White	Intact	Negative	0
60	9	Wall	Drywall	C	White	Intact	Negative	0.01
61	9	Wall	Drywall	D	White	Fair	Negative	0
62	9	Window Sill	Wood	D	White	Intact	Null	0
63	9	Window Sill	Wood	D	White	Intact	Negative	0
64	9	Baseboard	Wood	Floor	White	Intact	Negative	0
65	9	Ceiling	Drywall	Ceiling	White	Intact	Negative	0
66	8	Ceiling	Drywall	Ceiling	White	Intact	Negative	0
67	8	Wall	Drywall	A	Beige	Intact	Null	0
68	8	Wall	Drywall	A	Beige	Intact	Negative	0
69	8	Door Jamb	Wood	A	White	Intact	Negative	0
70	8	Chair Rail	Wood	A	White	Intact	Negative	0
71	8	Chair Rail	Wood	B	White	Intact	Negative	0
72	8	Door Casing	Wood	B	White	Intact	Negative	0
73	8	Door Jamb	Wood	B	White	Intact	Negative	0
74	8	Door	Wood	B	White	Intact	Negative	0
75	8	Wall	Drywall	B	Beige	Intact	Negative	0
76	8	Wall	Drywall	B	White	Intact	Negative	0
77	8	Wall	Drywall	C	White	Intact	Negative	0
78	8	Window Sill	Wood	C	White	Intact	Negative	0
79	8	Wall	Drywall	D	Beige	Intact	Negative	0
80	8	Baseboard	Wood	Floor	White	Intact	Negative	0
81	7	Baseboard	Wood	Floor	White	Intact	Negative	0
82	7	Door Casing	Wood	A	White	Intact	Negative	0

## Lead-Based Paint Inspection - XRF Results

Client: [REDACTED]								
Survey Location: [REDACTED] Metairie, LA 70003								
Survey Date: [REDACTED]								
Inspector: Jeff Camus				License #	MI182306	XRF Serial #	99507	
Reading No	Room	Component	Substrate	Side	Color	Condition	Results	PbC mg/cm2
83	7	Door Jamb	Wood	A	White	Intact	Negative	0
84	7	Door	Wood	A	White	Intact	Negative	0
85	7	Chair Rail	Wood	A	White	Intact	Negative	0
86	7	Wall	Drywall	A	Yellow	Intact	Negative	0
87	7	Wall	Drywall	A	Blue	Fair	Negative	0
88	7	Wall	Drywall	B	Blue	Intact	Negative	0
89	7	Door	Wood	B	White	Intact	Negative	0
90	7	Door Casing	Wood	B	White	Intact	Negative	0
91	7	Door Jamb	Wood	B	White	Intact	Negative	0
92	7	Window Sill	Wood	C	White	Intact	Negative	0
93	7	Chair Rail	Wood	C	White	Intact	Null	0
94	7	Chair Rail	Wood	C	White	Intact	Negative	0.01
95	7	Wall	Drywall	C	Yellow	Intact	Negative	0
96	7	Wall	Drywall	D	Blue	Intact	Null	0
97	7	Wall	Drywall	D	Blue	Intact	Negative	0
98	7	Ceiling	Drywall	Ceiling	White	Intact	Negative	0
99	hall	Wall	Drywall	A	White	Intact	Negative	0
100	hall	Door Casing	Wood	A	White	Intact	Negative	0
101	hall	Door Casing 2	Wood	A	White	Intact	Negative	0
102	hall	Door 2	Wood	A	White	Intact	Negative	0
103	hall	Door Jamb 2	Wood	A	White	Intact	Negative	0
104	hall	Door Casing	Wood	D	White	Intact	Negative	0
105	hall	Door	Wood	D	White	Intact	Negative	0
106	hall	Door Casing 2	Wood	D	White	Intact	Negative	0
107	hall	Wall	Drywall	D	White	Intact	Negative	0
108	hall	Wall	Drywall	B	White	Intact	Negative	0
109	hall	Door Casing	Wood	B	White	Intact	Negative	0

## Lead-Based Paint Inspection - XRF Results

<b>Client:</b> [REDACTED]								
<b>Survey Location:</b> [REDACTED] Metairie, LA 70003								
<b>Survey Date:</b> [REDACTED]								
<b>Inspector:</b> Jeff Camus				<b>License #</b>	MI182306	<b>XRF Serial #</b>	99507	
<b>Reading No</b>	<b>Room</b>	<b>Component</b>	<b>Substrate</b>	<b>Side</b>	<b>Color</b>	<b>Condition</b>	<b>Results</b>	<b>PbC mg/cm2</b>
110	hall	Door Casing	Wood	C	White	Intact	Negative	0
111	hall	Wall	Drywall	C	White	Intact	Negative	0
112	hall	Door Casing	Wood	D	White	Intact	Negative	0
113				Calibrate	Red		Positive	1.2
114				Calibrate	Red		Positive	1.2
115				Calibrate	Red		Positive	1.2

## Performance Characteristic Sheet

**EFFECTIVE DATE:** September 24, 2004

**EDITION NO.:** 1

**MANUFACTURER AND MODEL:**

Make: *Niton LLC*

Tested Model: *XLp 300*

Source:  $^{109}\text{Cd}$

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.

XLp 300A, XLp 301A, XLp 302A and XLp 303A.

XLi 700A, XLi 701A, XLi 702A and XLi 703A.

XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

### FIELD OPERATION GUIDANCE

**OPERATING PARAMETERS:**

Lead-in-Paint K+L variable reading time mode.

**XRF CALIBRATION CHECK LIMITS:**

0.8 to 1.2 mg/cm <sup>2</sup> (inclusive)
---

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm<sup>2</sup> in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm<sup>2</sup> film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

**SUBSTRATE CORRECTION:**

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

**INCONCLUSIVE RANGE OR THRESHOLD:**

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

## BACKGROUND INFORMATION

### EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

### OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

### SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

### EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

### TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
	All Data			Median for laboratory-measured lead levels (mg/cm <sup>2</sup> )		
Substrate	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood Drywall	4	11	19 11 15	11		
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22 15 18	16		

### CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

### DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

## **Appendix E: HUD Forms**



The property of interest is located at Address  City

Louisiana Zip  The Property contains a ☒ Single - Story ☐ Two-Story ☐ Three-Story

house constructed on a ☒ Concrete Slab ☐ Raised foundation and wood frames with ☐ vinyl ☐ Wood

☐ transite ☐ concrete ☒ brick ☐ stucco Other  exterior siding.

The exterior paint is in ☒ Good ☒ Fair ☐ Poor condition. There is a ☒ Driveway ☐ Carport ☒ Shed

☒ Garage ☐ Patio Other  on side ☐ A ☐ B ☐ C ☐ D

The front yard is covered in ☒ grass ☒ concrete ☐ dirt ☐ gravel ☐ mulch ☐ vegetation ☐ sand

Other

The B Side yard is covered in ☒ grass ☐ concrete ☒ dirt ☐ gravel ☐ mulch ☐ vegetation ☐ sand

Other

The Back yard is covered in ☒ grass ☐ concrete ☐ dirt ☐ gravel ☐ mulch ☐ vegetation ☐ sand

Other

The D Side yard is covered in ☒ grass ☐ concrete ☒ dirt ☐ gravel ☐ mulch ☐ vegetation ☐ sand

Other

There are garden plots on side ☐ A ☐ B ☐ C ☐ D

The interior of the property is gutted down to the wood and contains  indistinguishable rooms.

The interior of the property contains ☒ living room ☒ foyer ☒ den ☒ kitchen ☒ dining room ☐ office

☐ utility room  Bathrooms ☐ laundry room  Bedrooms other

The interior walls consist of ☐ gutted ☒ plaster ☐ sheetrock ☐ wood paneling other

The interior ceilings consist of ☐ gutted ☒ plaster ☐ sheetrock ☐ wood paneling other

The property is currently ☐ unoccupied ☒ occupied other

The property is currently being renovated by

The property is currently owned by

The property currently has ☐ NO children younger then age six ☐ children younger then age six residing at the property.

NOTES:

Garage caved in and sunroom too

**Form 5.0**  
**Questionnaire for a Lead Hazard Risk Assessment of an Individual Occupied Dwelling Unit (Page 1 of 2)**

Property Address [REDACTED] Metairie, LA 70003 Job Number [REDACTED]

Unit is owner occupied Year of Construction 1977 Prior LBP testing? unknown

Name of Property Owner [REDACTED] Owner Interview Date [REDACTED]

Name of resident (if rental) \_\_\_\_\_ Renter Interview Date \_\_\_\_\_

**Children and Children's Habits**

1. Do any children under the age of 6 live in the home or visit frequently? No

2. If yes, how many? \_\_\_\_\_

3. Please provide the following information about each child under 6 to the extent you can.

	Child 1	Child 2	Child 3	Child 4
(A) Age				
(B) Blood Lead Level				
(C) Month/Year of Blood Lead Test				
(D) Location of Bedroom				
(E) Main room where child eats				
(F) Main room where child plays				
(G) Main room where toys are stored				
(H) Main location where child plays outdoors				
(I) Notes				

*(If a resident child under the age of 6 has an elevated blood lead level, an environmental investigation may be necessary. See Chapter 1 of the HUD Guidelines).*

4. (a) Do any children tend to chew on any painted surfaces (i.e. windowsills)? \_\_\_\_\_

(b) If yes, where \_\_\_\_\_

**Form 5.0**  
**Questionnaire for a Lead Hazard Risk Assessment of an Individual Occupied Dwelling Unit (Page 2 of 2)**

Property Address [REDACTED] Metairie, LA 70003 Job Number [REDACTED]

**Other Household Information and Family Use Patterns**

5. Do women of child-bearing age live in the home? No
6. If in a building with other dwelling units, what common areas in the building are used by children? \_\_\_\_\_
7. (a) Which entrance is used most frequently? Front
- (b) What other entrances are used frequently? \_\_\_\_\_
8. Which windows are opened most frequently? \_\_\_\_\_
9. (a) Do you use window air conditioners? \_\_\_\_\_ (b) If yes, where? \_\_\_\_\_
10. (a) Do you or any other household members garden? No (b) If yes, where? \_\_\_\_\_
11. (a) Are you planning any landscaping activities that will remove grass or ground covering? \_\_\_\_\_
- (b) If yes, where? \_\_\_\_\_
12. (a) Which areas of the home get cleaned regularly? \_\_\_\_\_
- (b) Which areas of the home do not get cleaned regularly? \_\_\_\_\_
13. (a) Are any household members exposed to lead at work? No If no, to to question 14.
- (b) If yes, are dirty work clothes brought home? \_\_\_\_\_
- (c) If they are brought home, who handles dirty work clothes and where are they placed and cleaned? \_\_\_\_\_
14. Do you have pets? No (b) If yes, do these pets go outdoors? \_\_\_\_\_

**Building Renovations**

15. (a) Were any building renovations or repainting done here during the past year? No
- (b) If yes, what work was done and when? \_\_\_\_\_
- (c) Were carpets, furniture and/or family belongings present in the work areas \_\_\_\_\_
- (d) If yes, which items and where were they? \_\_\_\_\_
- (e) Was construction debris stored in the yard? \_\_\_\_\_
- (f) If yes, please describe what, where and how was it stored. \_\_\_\_\_
16. (a) Are you conducting or planning any building renovations? Yes
- (b) If yes, what work will be done, and when? \_\_\_\_\_

# Form 5.1

## Building Condition Form for Lead Hazard Risk Assessment

Property Address [REDACTED] Metairie, LA 70003 Job Number [REDACTED]

Name of Risk Assessor Sue Lichtveld Date of Assessment [REDACTED]

CONDITION	Yes	No	Comments
Roof missing parts of surfaces (tiles, boards, shakes, etc.)	X		
Roof has holes or large cracks	X		Front by gutter; sunroom and garage collapse
Gutters of downspouts broken	X		
Chimney masonry cracked, bricks loose or missing, obviously out of plumb		X	
Exterior or interior walls have obvious large cracks or holes, requiring more than routine pointing (if masonry) or painting	X		
Exterior siding has missing boards or shingles	X		Front by gutter
Water stains on interior walls or ceilings	X		
Walls or ceilings deteriorated	X		Back hallway and main bedroom
More than "very small" amount of paint in a room deteriorated		X	
Two or more windows or doors broken, missing, or boarded up		X	
Porch or steps have major elements broken, missing, or boarded up		X	
Foundation has major cracks, missing material, structure leans, or visibly unsound		X	
**Total Number	7	6	

\* The "very small" amount is the *de minimis* amount under the HUD Lead Safe Housing Rule (24 CFR 35.1350(d)), or the amount of paint that is not "paint in poor condition" under the EPA lead training and certification ("402") rule (40 CFR 745.223).

\*\* If the "Yes" column has any checks, the dwelling is usually considered not to be in good condition for the purposes of a risk assessment, and conducting a lead hazard screen is not advisable. However, specific conditions and extenuating circumstances should be considered before determining the final condition of the dwelling and the appropriateness of a lead hazard screen. If the "Yes" column has any checks, and a lead hazard screen is to be performed, describe, below, the extenuating circumstances that justify conducting a lead hazard screen.

Notes

## Form 5.2a Report of Visual Assessment (for Lead Hazard Risk Assessment)

Property Address [REDACTED] Metairie, LA 70003 Job Number [REDACTED]

Name of Risk Assessor \_\_\_\_\_ Date of Assessment [REDACTED]

Location 1	Component, Dust, or Bare Soil	Is area small? (Y or N)	Cause of Deterioration 2	Friction or Impact (F or I)	Teeth Marks? (Y or N)	XRF Result	Notes

1 Include room equivalent or exterior side or wall, as appropriate.

2 Lead-safe work practices and clearance/cleaning verification are not required if work does not disturb painted surfaces that total more than:

- ◆ For assisted housing: HUD's de minimis area of: 20 ft<sup>2</sup> or less on exterior surfaces, 2 ft<sup>2</sup> or less in any one interior room or space, or 10 percent of the total surface area on an interior or exterior type of component with a small surface area (such as trim, window sills, baseboards);
- ◆ For unassisted housing, and for child-occupied facilities, EPA's minor repair and maintenance activities threshold of: 6 ft<sup>2</sup> or less per room; or 20 ft<sup>2</sup> or less for exterior activities; provided that no prohibited or restricted work practices were used and no window replacement or demolition of painted surface areas is to be done.

3 Common causes of paint deterioration are: moisture (indicate source if apparent), mildew, friction or abrasion, impact, damaged or deteriorated substrate, and severe heat.

4 If paint testing results are obtained on site, use this column to record the result. If a paint chip sample is sent to the laboratory, use this column to record the sample number (or other unique identifier) as a reference to another record containing the sampling data and laboratory results.

### Notes (including other conditions of concern):

*Please refer to Form - 5.2b Lead Based Paint - Risk Assessment Paint Conditions on Selected Surfaces; Form 5.4a Field Sampling Form for Dust; Form 5.5 Field Sampling Form for Soil; and the XRF Results in Appendix D*

# Form 5.2b Lead-Based Paint- Risk Assessment Paint Conditions on Selected Surfaces

Property Address [REDACTED] Metairie, LA 70003

Job Number [REDACTED]

Name of Risk Assessor Sue Lichtveld

Date of Assessment [REDACTED]

Building Component	Paint Condition	*Room (Comments)	Friction or Impact Surface (F or I)	Deterioration due to moisture? (Y or N)	Visible Teeth Marks? (Y or N)
Building Siding	N/A		N/A		N
Exterior Trim	Intact		N/A		N
Exterior Windows	Intact		F & I		N
Exterior Doors	Intact		F & I		N
Porch Surface	N/A		I		N
Railings	N/A		N/A		N
Interior Doors	Intact		F & I		N
Interior Walls	Intact		I		N
Ceilings	Fair		I		N
Interior Windows	Intact		F & I		N
Interior Trim	Intact		I		N
Bathroom Cabinets	Intact		F & I		N
Kitchen Cabinets	Intact		F & I		N
Stairways	N/A		I		N
Interior Floors	Intact		I		N
					N

Notes



## Form 5.4a Field Sampling Form for Dust

Property Address [REDACTED] Metairie, LA 70003

Job Number [REDACTED]

Name of Sampler Sue Lichtveld

Date [REDACTED]

Sample Number	Room	Surface 1	Location of Sample	Is Surface Smooth & Cleanable?	Sample Area (inches x inches)	Lab Results (ug/square foot)
<span style="background-color: black; color: black;">[REDACTED]</span> -01	Foyer	FL	A entry	Yes	12x12	
<span style="background-color: black; color: black;">[REDACTED]</span> -02	Rm 1	WS	A side	Yes	5.5 X 33.5	
<span style="background-color: black; color: black;">[REDACTED]</span> -03	Rm 2	FL	Center	Yes	12x12	
<span style="background-color: black; color: black;">[REDACTED]</span> -04	Rm 2	WS	B side	Yes	5 X 38	
<span style="background-color: black; color: black;">[REDACTED]</span> -05	Rm 5	Carpet Floor	Center	Yes	12x12	
<span style="background-color: black; color: black;">[REDACTED]</span> -06	Rm 7	Carpet Floor	Center	Yes	12x12	
<span style="background-color: black; color: black;">[REDACTED]</span> -07	Rm 7	WS	C side	Yes	4 X 38	
<span style="background-color: black; color: black;">[REDACTED]</span> -08	Rm 8	WS	D side	Yes	5.25 X 38	
<span style="background-color: black; color: black;">[REDACTED]</span> -09	Rm 10	FL	Center	Yes	12x12	
<span style="background-color: black; color: black;">[REDACTED]</span> -10	Blank					

1 Hard Floor (HF), Carpeted Floor (CF), or Interior Window Sill (S)

2 Measure to the nearest 1/8th or 1/10th of an inch. [1/8 = 0.125, 2/8 = 0.25, 3/8 = 0.375, 4/8 = 0.5, 5/8 = 0.625, 6/8 = 0.75, 7/8 = 0.875]

3 Calculate sample area in square feet as follows: Calculate square inches, then divide by 144.

4 Provide areas, direct laboratory to report the dust lead result in µg/ft<sup>2</sup>.

NOTE: EPA standards: 40 µg/ft<sup>2</sup> (interior floors); 250 µg/ft<sup>2</sup> (interior window sills) for Risk Assessment; 25 µg/ft<sup>2</sup> and 125 µg/ft<sup>2</sup> for screen.

### Notes

The paragraph above contains outdated hazard standards. Effective January 6, 2020, the EPA issued a final rule that effects dust-lead hazard standards. These standards have been revised from 40 µg/ft<sup>2</sup> and 250 µg/ft<sup>2</sup> to 10 µg/ft<sup>2</sup> and 100 µg/ft<sup>2</sup> on interior floors and windowsills, respectively.

## Form 5.5 Field Sampling Form for Soil

Property Address [REDACTED] Metairie, LA 70003

Job Number [REDACTED]

Name of Sampler

Sue Lichtveld

Date

[REDACTED]

Sample Number	Type of Bare Soil Area Sampled	Sample Location	Approximate Area of Bare Soil (ft x ft)	Laboratory Result (ppm or ug/g)
S-[REDACTED]-01	Side Yard	B side	12x1	
S-[REDACTED]-02	Side Yard	D side	3x4	

NOTE: EPA hazard standard for bare play area soil is 400 ppm or  $\mu\text{g/g}$ ; for bare non-play area soil is 1,200 ppm or  $\mu\text{g/g}$ .

Notes

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## **Appendix F: Accreditation Certificates**

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

***Sue Lichtveld***

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Inspector**

**Accreditation No. JI210196**

**AI No. 210196**

**Date of Issuance July 25, 2019**

**Expiration July 9, 2020**

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.**

***Paul Bergeron***

**Public Participation & Permit Support Division  
Office of Environmental Services**

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

***Sue Lichtveld***

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Risk Assessor**

**Accreditation No. JR210196**

**AI No. 210196**

**Date of Issuance July 25, 2019**

**Expiration July 10, 2020**

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.**

***Paul Bergeron***

**Public Participation & Permit Support Division  
Office of Environmental Services**

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

*Justin H Crochet*

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Inspector**

**Accreditation No. MI184257**

**AI No. 184257**

**Date of Issuance March 11, 2020**

**Expiration March 5, 2021**

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



**Public Participation & Permit Support Division  
Office of Environmental Services**

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

*Justin H Crochet*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

Lead Risk Assessor

Accreditation No. MR184257

AI No. 184257

Date of Issuance March 11, 2020

Expiration March 6, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division  
Office of Environmental Services

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

*Jeffrey P Camus*

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Inspector**

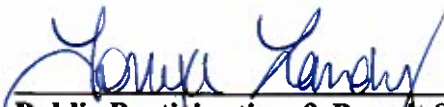
**Accreditation No. MI182306**

**AI No. 182306**

**Date of Issuance March 11, 2020**

**Expiration March 5, 2021**

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.**



**Public Participation & Permit Support Division  
Office of Environmental Services**



**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**certifies that**

***Jeffrey P Camus***

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Risk Assessor**

**Accreditation No. MR182306**

**AI No. 182306**

**Date of Issuance March 11, 2020**

**Expiration March 6, 2021**

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.**



**Public Participation & Permit Support Division  
Office of Environmental Services**





**STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Is hereby granting a Louisiana Environmental Laboratory Accreditation to**



**EMSL Analytical Inc  
18369 Petroleum Dr  
Baton Rouge, Louisiana 70809**

**Agency Interest No. 205208  
Activity No. ACC20200001**

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

Cheryl Sonnier Nolan  
Administrator  
Public Participation and Permit Support Services Division

Issued Date: 09 Jun 2020  
Effective Date: **July 1, 2020**  
Expiration Date: **June 30, 2021**  
Certificate Number: **01950**



## *Accredited Laboratory*

A2LA has accredited

**EMSL ANALYTICAL, INC.**

*Baton Rouge, LA*

for technical competence in the field of

**Environmental Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of A2LA R207 – *Environmental Lead Testing Laboratory Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 14<sup>th</sup> day of March 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2845.03  
Valid to March 31, 2021

*For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.*



**STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Is hereby granting a Louisiana Environmental Laboratory Accreditation to**



**EMSL Analytical Inc  
200 Rt 130 N  
Cinnaminson, New Jersey 08077**

**Agency Interest No. 131900  
Activity No. ACC20200001**

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and agrees to adapt to any changes in the requirements. It also acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I and the 2009 TNI standards by which the laboratory was assessed. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

Cheryl Sonnier Nolan  
Administrator  
Public Participation and Permit Support Services Division

Issued Date: 16 June 2020

Effective Date: **July 1, 2020**  
Expiration Date: **June 30, 2021**  
Certificate Number: **04127**





## Accredited Laboratory

A2LA has accredited

**EMSL ANALYTICAL, INC.**

*Cinnaminson, NJ*

for technical competence in the field of

**Environmental Testing**

In recognition of the successful completion of the A2LA evaluation process that includes an assessment of the laboratory's compliance with ISO/IEC 17025:2017, the 2009 TNI Environmental Testing Laboratory Standard, and the requirements of the Department of Energy Consolidated Audit Program (DOECAP) as detailed in version 5.3 of the DoD Quality System Manual for Environmental Laboratories (QSM), accreditation is granted to this laboratory to perform recognized EPA methods as defined on the associated A2LA Environmental Scope of Accreditation. This accreditation demonstrates technical competence for this defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 24<sup>th</sup> day of May 2019.

A blue ink signature of a person, likely the Vice President of Accreditation Services, written over a horizontal line.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2845.01  
Valid to May 31, 2021

*For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.*

## **Appendix G: Controls of Lead-Based Paint Hazards**

## **Controls for Lead-Based Paint Hazards**

### **1.0 Lead-Based Paint Hazard Control Options**

Lead-safe work practices and worker/resident protection practices complying with current EPA, HUD and OSHA standards will be necessary to complete all work safely involving the disturbance of lead-based paint coated surfaces and components. Lead based paint hazard control activities include both interim control (temporary) methods and/or abatement (permanent) methods. It should be noted that all lead-based paint hazard control activities have the potential to create hazards that were not present before. As shown below, all persons and/or firms performing lead-based paint hazard control activities should have received proper training in lead-safe work practices and/or Lead Abatement, in accordance with Federal and State regulations. The following regulations at a minimum need to be considered:

#### Occupational Safety and Health Administration (OSHA):

- 29 CFR 1910 General Industry Standard
- 29 CFR 1910.1025 Lead Standard for General Industry
- 29 CFR 1910.134 Respiratory Protection
- 29 CFR 1910.1200 Hazard Communication
- 29 CFR 1910.245 Specifications for Accident Prevention (Sign and Tags)
- 29 CFR 1926 Construction Industry Standards
- 29 CFR 1926.62 Construction Industry Lead Standard

#### Environmental Protection Agency (EPA):

- 40 CFR 261 Identification and Listing of Hazardous Waste

#### Department of Housing and Urban Development (HUD):

- 24 CFR 35 Lead-Based Paint Poisoning Prevention in Certain Residential Structures
- HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

## **2.0 Interim Controls**

Interim controls, as defined by HUD, means a set of measures designed to reduce human exposure temporarily to lead-based paint hazards. These activities may include, but are not limited to: component and/or substrate repairs; paint and varnish repair; the removal of dust-lead hazards by extensive and specialized cleaning; ongoing lead-based paint maintenance; temporary containment; placement of seed, sod or other forms of vegetation over bare soil areas, etc. Interim controls for soil-lead hazards may include the placement of at least 6 inches of an appropriate mulch material over an impervious material, laid on top of bare soil area, and the tilling of bare soil areas. Interim controls must be periodically evaluated for their continued effectiveness as part of an ongoing lead-based paint maintenance program.

Workers conducting interim controls must be trained in a course delivered using a HUD-approved Lead-Safe Work Practices training curriculum. A list of HUD-approved curricula is available through HUD's Web site at [www.hud.gov/offices/lead/training](http://www.hud.gov/offices/lead/training).

A clearance examination after interim controls must be conducted by a certified lead-based paint inspector, risk assessor, or sampling technician, or by a trained sampling technician under the supervision of a certified inspector or risk assessor.

## **3.0 Abatement**

Abatement, as defined by HUD, means any set of measures designed to eliminate lead-based paint and/or lead-based paint hazards permanently. The people providing these services must be trained in accordance with the State or EPA licensing/certification requirements. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of 20 years, or these methods must have a design life of at least 20 years.

Abatement activities may include, but are not necessarily limited to: the onsite or offsite removal of lead-based paint from substrates and components; the replacement of components or fixtures painted with lead-based paint; the permanent enclosure of lead-based paint with construction materials mechanically-fastened to the substrate; the



encapsulation of lead-based paint with specially designed encapsulant products; or the removal or permanent covering (concrete or asphalt) of soil-lead-based paint hazards. If enclosure or encapsulation is conducted as an abatement method, the lead-based paint remains on the property, so ongoing lead-based paint maintenance is required.

The firm providing the abatement services must be certified as an abatement firm by the EPA or the State. Workers conducting abatement must be trained and certified as abatement workers by a training provider accredited by the EPA or the State. A clearance examination by a certified lead inspector or risk assessor must be performed after abatement.

#### **4.0 Lead Hazard Control Options**

The following information provides options for controlling the lead-based paint hazard identified in the risk assessment report.

The unit cost estimates, unless otherwise noted, include the labor and materials to accomplish the stated activity and most additional actions typically found to be necessary to complete worker protection, site containment, and cleanup procedures. Cost estimates are approximate, and vary significantly with the condition of the building component, its architectural style, local labor and materials rates, season, and many other factors. The selection of which hazard control options to use must be based on the specific project, the Owner's needs, and available resources.

The values provided below are general estimates that will need to be adjusted based on the cost of living index for the region in question. This information does not replace an estimate provided by a certified lead-based paint contractor but is a tool that can assist the owner in predicting cost. A precise estimate should be obtained from a certified lead-based paint abatement contractor or a contractor trained in lead-safe work practices. Properly trained and/or licensed persons, as well as properly licensed firms (if required) should accomplish all abatement and interim control activities conducted at this residential property.

<b>Control Option #1</b>	<b>Special Precleaning – Whole House</b>
<b>Application</b>	Lead dust and debris is present on the property before work begins.
<ul style="list-style-type: none"> <li>• Before any lead-based paint hazard control activities, the site and structure should be pre-cleaned following the cleaning protocols in the <i>Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing</i>, published by the U.S.</li> <li>• This clean-up includes removal of any debris and contaminated material within the residence.</li> <li>• Some of the required steps include removing large debris and paint chips followed by HEPA vacuuming of all horizontal surfaces (floors, windowsills, troughs, etc). The cleaning protocols in the HUD Guidelines will assist the contractor in doing a preliminary cleaning and will improve the chances of passing the clearance examinations that are required after routine maintenance work, rehabilitation and lead-based paint hazard control in pre-1978 properties.</li> <li>• All rubbish and waste material from the project work shall be neatly stacked or kept in suitable containers and removed regularly from the premises. The premises shall be kept clean and in an orderly condition at all times to the reasonable satisfaction of the owner.</li> <li>• Large debris from demolition (i.e. doors, windows, baseboards) shall be wrapped in polyethylene sheeting at least six-mil thick, sealed with heavy-duty duct tape, and stored until proper disposal.</li> <li>• Prior to picking up or collecting small debris, the surfaces of this debris will be sprayed with a fine mist of water. The debris will be picked up, collected and placed into a single plastic bag, at least six-mils thick. The bags shall not be overloaded, shall be securely sealed, and shall be stored in the designated area until disposal.</li> <li>• Dry sweeping is not permitted in the work area; wet sweeping will require approval of the supervisor in charge of the project.</li> </ul>	
<b>Estimated Cost</b>	<b>\$1.50 - \$2.25/s.f.t</b>

<b>Control Option #2</b>	<b>Exterior Siding and Trim Lead-Based Paint Hazard Control Options</b>
<b>Application</b>	Deteriorated Lead-Based Paint on Exterior Siding and Trim Components

- An interim control is to address the lead-based paint hazard created by the deteriorating lead-based paint coating on the exterior siding and trim components by repairing substrate damage and then properly preparing the surfaces to receive new paint and repainting with high quality latex or oil-based paints (paint stabilization) on all interior window component surfaces and installing metal or vinyl jamb liners. This activity has the potential to create substantial lead dust, especially during preparation work, so extra care must be taken by the contractor to limit and contain the dust generated.
- There are three options for abatement of exterior siding:
  - Enclosure of all exterior siding components with vinyl or metal siding and the covering of all trim components with pre-finished aluminum wrap materials
  - Removal and replacement of lead-based paint painted exterior siding and/ or trim components
  - Use of an approved encapsulants system covering all exterior siding and trim surfaces
- If encapsulation is used, a test patch must be made up prior to installation. These methods usually generate small to medium amounts of lead-contaminated dust and will permanently cover or replace the deteriorated surfaces, eliminating most future hazards. Even though the potential for lead dust contamination is generally less with these methods of lead-based paint hazard control, special attention to work practices will be needed to limit dust generation.

Cost for paint stabilization on the siding:	\$1.85 - \$2.05/s.f.
Cost for paint stabilization on the trim:	\$1.60 - \$1.95/l.f.
Cost for siding enclosure with vinyl:	\$3.45 - \$4.25/s.f.
Cost for trim enclosure with aluminum:	\$3.10 - \$4.05/l.f.
Cost for removal and replacement:	\$5.22 - \$6.40/s.f.
Cost for application and approved encapsulants:	\$2.20 - \$3.40/s.f.

<b>Control Option #3</b>	<b>Interior Trim Lead-Based Paint Hazard Control Options</b>								
<b>Application</b>	Deteriorated Lead-Based Paint on Interior Trim Components								
<ul style="list-style-type: none"> <li> <b>Interim Controls:</b> The lead-based paint hazard created by the deteriorating lead-based paint coatings on the interior siding and trim components may be addressed by repairing substrate damage and then properly preparing the surfaces to receive new paint and repainting with high-quality latex or oil-based paints (paint stabilization). This activity has the potential to create substantial lead dust, especially during preparation work, so extra care must be taken by the contractor to limit and contain the dust generated. </li> </ul> <table border="1"> <tr> <td>Paint stabilization - trim</td><td>\$0.90 - \$1.60/l.f.</td></tr> </table> <ul style="list-style-type: none"> <li> <b>Abatement:</b> There are three options for abatement of interior trim components: <ol style="list-style-type: none"> <li>1) onsite or offsite paint removal,</li> <li>2) use of encapsulant paint system,</li> <li>3) component removal and replacement.</li> </ol> <p>If encapsulation is used, a test patch must be made up prior to installation. These methods may generate varying degrees of lead dust, depending on the specific activities that are performed, so special attention to work practices will be needed to limit dust generation during the work. Each of the three abatement options permanently removes or covers the deteriorated painted surfaces. However, if encapsulation or enclosure is used, lead-based paint remains on the property, so ongoing lead-based paint maintenance and reevaluation must be performed.</p> <table border="1"> <tr> <td>Paint removal</td><td>\$2.05 - \$3.95/l.f.</td></tr> <tr> <td>Application of approved encapsulants</td><td>\$0.95 - \$3.25/s.f.</td></tr> <tr> <td>Removal and replacement of lead-based paint coated components</td><td>\$2.25 - \$4.90/l.f.</td></tr> </table> </li> </ul>		Paint stabilization - trim	\$0.90 - \$1.60/l.f.	Paint removal	\$2.05 - \$3.95/l.f.	Application of approved encapsulants	\$0.95 - \$3.25/s.f.	Removal and replacement of lead-based paint coated components	\$2.25 - \$4.90/l.f.
Paint stabilization - trim	\$0.90 - \$1.60/l.f.								
Paint removal	\$2.05 - \$3.95/l.f.								
Application of approved encapsulants	\$0.95 - \$3.25/s.f.								
Removal and replacement of lead-based paint coated components	\$2.25 - \$4.90/l.f.								

<b>Control Option #4</b>	<b>Exterior Window Lead-Based Paint Hazard Control Options</b>										
<b>Application</b>	Deteriorated Lead-Based Paint on Exterior Window Components										
<ul style="list-style-type: none"> <li>• <b>Interim Controls:</b> There are two options for interim controls on deteriorating lead-based paint on the exterior window components:             <ol style="list-style-type: none"> <li>1) stabilizing the painted surfaces and making needed repairs, or</li> <li>2) replacing all deteriorated surfaces followed by the installation of metal or vinyl jamb liners. Repairs include: fixing-in-place of the upper window sash followed by stabilization; wrapping of the trough with aluminum coil stock materials followed by stabilization of adjacent surfaces; replacement of the trough/sill molding followed by stabilization; and chemically stripping the sashes of all lead-based paint. These activities have the potential to create high volumes of lead-contaminated dust, both inside and outside the house and extra care must be taken by the contractor to limit and contain the dust generated. Because lead-based paint remains on the property, ongoing lead-based paint maintenance is required.</li> </ol> <table border="1"> <tr> <td>Paint stabilization - window</td><td>\$390 - \$725 each.</td></tr> <tr> <td>Fix upper sash and stabilize</td><td>Add \$45 - \$75 each</td></tr> <tr> <td>Wrap trough and stabilize</td><td>Add \$45 - \$75 each</td></tr> <tr> <td>Replace trough/sill and stabilize</td><td>Add \$95 - \$120 each</td></tr> <tr> <td>Chemically strip window and reinstall</td><td>\$225 - \$400 each</td></tr> </table> </li> <li>• <b>Abatement activities:</b> There are several options for abatement of deteriorated window components:             <ol style="list-style-type: none"> <li>1) removal and replacement of the window sashes with the enclosure or paint stabilization of the exterior trim surfaces. This is economical and generates the least amount of lead dust of the options available,</li> <li>2) removal of the window sashes, frame, and trim and the</li> </ol> </li> </ul>		Paint stabilization - window	\$390 - \$725 each.	Fix upper sash and stabilize	Add \$45 - \$75 each	Wrap trough and stabilize	Add \$45 - \$75 each	Replace trough/sill and stabilize	Add \$95 - \$120 each	Chemically strip window and reinstall	\$225 - \$400 each
Paint stabilization - window	\$390 - \$725 each.										
Fix upper sash and stabilize	Add \$45 - \$75 each										
Wrap trough and stabilize	Add \$45 - \$75 each										
Replace trough/sill and stabilize	Add \$95 - \$120 each										
Chemically strip window and reinstall	\$225 - \$400 each										

installation of a new window with new interior and exterior trim. This option must be performed properly to avoid dust generation and house or neighborhood lead contamination. Vinyl, aluminum, or wood replacement style windows can be used. Note: Lead-based paint hazard control activities on the trim components should be performed prior to the installation of the new replacement window dwelling units.

Removal and replacement of the existing windows with vinyl replacement windows; costs reflect all labor costs	
• Standard house double-hung or casement window	\$300 - \$550 each
• Wood replacement window	\$325 - \$650 each
• Aluminum clad wood replacement windows	\$390 - \$725 each
Casing, jamb, trough, apron stabilization	\$1.60 - \$2.25/l.f.
Casing, jamb, trough, apron wrap	\$3.10 - \$4.20/l.f.
Removal and replacement of the existing windows with new wood windows including interior and exterior trim	\$450 - \$700 each.



Control Option #5	Interior Window Lead-Based Paint Hazard Control Options	
Application	Deteriorated Paint on the Interior Window Components	
<ul style="list-style-type: none"><li>• <b>Interim Control:</b> The lead-based paint hazard created by the deteriorating lead-based paint coating on the interior window components may be addressed by repairing substrate damage and then properly preparing the surfaces to receive new paint and repainting with high-quality latex or oil-based paints (paint stabilization) on all interior window component surfaces and installing metal or vinyl jamb liners. This activity has the potential to create substantial lead dust, especially during preparation work, so extra care must be taken by the contractor to limit and contain the dust generated.</li></ul>		
Stabilization, per window		\$390 - \$725 each
<ul style="list-style-type: none"><li>• <b>Abatements:</b> The removal and replacement of the entire window including the jamb, stops, casing, header, sill, and apron is the abatement option for interior windows. This method has the potential to create higher volumes of dust than stabilization, but permanently eliminates lead-based paint hazards in this area.</li></ul>		
Removal and replacement of the existing windows with vinyl replacement windows; costs reflect all labor costs		
<ul style="list-style-type: none"><li>• Standard house double-hung or casement window</li></ul>		\$300 - \$550 each
<ul style="list-style-type: none"><li>• Standard house double-hung or casement window</li></ul>		\$325 - \$650 each
<ul style="list-style-type: none"><li>• Aluminum clad wood replacement windows</li></ul>		\$390 - \$725 each

<b>Control Option #6</b>	<b>Exterior Door and Trim Lead-Based Paint Hazard Control Options</b>																
<b>Application</b>	<b>Deteriorated Lead-Based Paint on the Exterior Door and Door Trim Components</b>																
<ul style="list-style-type: none"> <li>The interim control option for deteriorating lead-based paint coatings on the exterior door and door trim is paint stabilization of the door and trim. Friction or impact surfaces must be eliminated by wet planing and adjustment of the door in the frame. This may also include the replacement of the stop trim pieces or the installation of a rubber or foam barrier between the stop and the door. These activities have the potential to create a high volume of lead-contaminated dust, so extra care must be taken to by the contractor to limit and contain the dust generated.</li> <li>There are two abatement options:             <ul style="list-style-type: none"> <li>Offsite stripping of the door and rehanging or replacing the doorframe and door leaf. Offsite stripping has the potential to create low volume of lead-contaminated dust.</li> <li>Replacing the door by removing the entire door and all framing, and the installation of a re pre-hung door dwelling unit. This activity has the potential to create high volume of lead-contaminated dust. If removal of the door and installation of a new door is selected, containment must be in place to protect the residents and workers for the entire duration of the work and extra care must be taken by the contractor to limit and contain the dust generated.</li> </ul> </li> </ul>																	
<table border="1"> <tr> <td>Cost for paint stabilization of the door:</td><td>\$1.85 -\$2.80/s.f.</td></tr> <tr> <td>Cost for paint stabilization of the trim:</td><td>\$1.60 -\$2.55/l.f.</td></tr> <tr> <td>Cost for planing and door adjustment:</td><td>\$70 -\$165 each.</td></tr> <tr> <td>Cost for barrier installation:</td><td>\$2.20 -\$3.10/l.f.</td></tr> <tr> <td>Cost for stop replacement:</td><td>\$4.80 -\$5.90/l.f.</td></tr> <tr> <td>Cost for offsite stripping and rehang:</td><td>\$150 -\$175 each</td></tr> <tr> <td>Cost for removal and installation of a new door leaf:</td><td>\$150 -\$285 each.</td></tr> <tr> <td>Cost for removal and installation of door and door frame:</td><td>\$325 – 550 each</td></tr> </table>		Cost for paint stabilization of the door:	\$1.85 -\$2.80/s.f.	Cost for paint stabilization of the trim:	\$1.60 -\$2.55/l.f.	Cost for planing and door adjustment:	\$70 -\$165 each.	Cost for barrier installation:	\$2.20 -\$3.10/l.f.	Cost for stop replacement:	\$4.80 -\$5.90/l.f.	Cost for offsite stripping and rehang:	\$150 -\$175 each	Cost for removal and installation of a new door leaf:	\$150 -\$285 each.	Cost for removal and installation of door and door frame:	\$325 – 550 each
Cost for paint stabilization of the door:	\$1.85 -\$2.80/s.f.																
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Cost for removal and installation of door and door frame:	\$325 – 550 each																



<b>Control Option #7</b>	<b>Special Cleaning for Floors with Lead-Contaminated Dust</b>
<b>Application</b>	Lead-Based Paint Dust Hazard on Floor Surfaces

Carpeted Floors

- **Interim Controls:** The lead-based paint hazard created by lead dust on interior carpeted floors is addressed by special steam cleaning of the affected areas. Minimum specifications include beater HEPA vacuuming, professional steam cleaning, and final HEPA vacuuming. Note: Depending on the amount of carpet contamination that is present, it should be noted that dust levels after cleaning may not be low enough to meet HUD clearance standards.

Carpet cleaning using truck-mounted equipment	\$65 - \$110/room
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- **Abatement Activities:** Removal and replacement of the carpet is the only option to meet HUD clearance standards for dust levels following lead-based paint hazard control work. The carpet must be wetted and cut into manageable sections before being rolled and wrapped in plastic sheeting for removal. Subfloor must be HEPA-vacuumed and wet-mopped before installation of new material. These activities have the potential to create a high volume of lead dust. Carpet removal has the potential to create large amounts of dust, so containment must be in place during the duration of the work to protect residents and workers. Extra care must be taken by the contractor to limit and contain the dust generated.

Disposal of carpet	\$0.75 - \$1.55/s.f.
Installation of new carpet	\$21 - \$30/s.y.

Bare Floors:

- The dust-lead hazard on interior floors is addressed by special wet cleaning of the affected areas. Minimum specifications include HEPA vacuuming; wet wiping, and final HEPA vacuuming.
- Cleaning shall include a thorough HEPA vacuuming of all surfaces. Additionally, cleaning requires the use of a solution of five percent trisodium phosphate (TSP) or other equally effective cleaning agent. All waste materials generated during this clean-up shall be disposed of as waste.

- The contractor will obtain training in the use of the HEPA vacuum from the manufacturer prior to use. The contractor shall obtain HEPA vacuum attachments, such as various size brushes, crevice tools, and angular tools to be used for varied applications and service the HEPA vacuum routinely to assure proper operation. Caution shall be used any time the HEPA is opened for filter replacement or debris removal. Operators shall wear a full set of protective clothing and equipment, including respirators, when using and emptying the HEPA vacuuming equipment.
- Cleaning shall begin with a thorough HEPA vacuuming of all surfaces, starting at the ceilings, proceeding down the walls and including window, doors and door trim and floor. The floor shall be vacuumed last, beginning at the farthest corners from the entrance to the work area. HEPA vacuuming shall again be performed as noted above, after the following TSP wash.
- The contractor shall next wash or mop the same surfaces with a trisodium phosphate (TSP) detergent solution (five percent) or other equally effective cleaning agent and allow surfaces to dry. The contractor, as described above, will then perform a second HEPA Vacuuming of the surfaces. By the conclusion of the cleaning phase, all visible dust and debris shall have been completely removed.
- Special attention shall be given to personal hygiene and the cleaning of supplies and/ or equipment. All mop heads, sponges, and rags shall be replaced or changed daily, at a minimum. Rags, mops heads or sponges may be reused if the contractor has them cleaned via a washing system specially equipped with HEPA filtration.
- The contractor shall prepare and use detergents containing five to ten percent TSP according to manufacture's instructions. The manufacturer's recommended coverage will be followed. The wastewater from clean up shall be contained and disposed of according to all applicable Federal, state, county and local regulations and guidelines. In no instance shall wastewater be disposed in storm sewers (e.g., yard inlet or street drain) or sanitary sewers (e.g., toilet, sink, or any other household/ residential/ commercial type drain system) without meeting local approvals.

Cleaning of bare floors	\$0.20 - \$0.40/s.f.
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Control Option #8	Special Postcleaning Activities
Application	Potential of Residual Lead Dust or Debris Following Lead Hazard Control Activities
<ul style="list-style-type: none"> <li>Immediately after any lead-based paint hazard control activities, the work area (or unit, as applicable) must be thoroughly cleaned following the cleaning protocols in the Guidelines for the Evaluation and Control of Lead-Based Pain Hazards in Housing, published by the U.S. Department of Housing and Urban Development (Jun 1995, Revised 1997). As a minimum, proper teardown and disposal of all containment plastic, HEPA vacuuming of all horizontal surfaces (floors, windowsills, trough, etc.), detergent scrubbing of all surfaces, and final HEPA vacuuming are required. The cleaning protocols in the HUD Guidelines and the lead-safe work practices training courses assist the contractor with cleanup and will improve the chances of passing the clearance examinations (required after routine maintenance work, rehabilitation, and lead-based pain hazard control activities.)</li> </ul>	
Cost for special post cleaning activities:	
\$2.00 - \$3.15/s.f.	

Control Option #9	Soil Lead-Based Paint Hazard Control
Application	Lead-Contaminated Soil
<ul style="list-style-type: none"> <li>An interim control is the establishment of the new turf by over seeding, by properly laying down viable sod, by tilling the soil to a depth of a least 12 inches, by the installation of mulch beds, by the installation of border materials, or by the installation of barrier bushes will address the lead-based paint hazards created by bare soil areas. If turf establishment is the chosen interim control activity, the Owner may have to trim adjacent tree cover, if present, to increase sunlight penetration and chances for viable turf establishment in this area. Interim control treatments of soil lead hazards must be monitored regularly for continued stability.</li> <li>There are two abatement options to address soil lead hazards: <ul style="list-style-type: none"> <li>Removal and replacement of the soil. Following soil replacements activities, a good and viable turf or a mulch bed is also established. If this is selected, additional soil sampling should be performed to assess the extent and depth of the contamination and determine the full extent of the area that will require hazard control. Additional testing should also be done to determine the lead content of the new soil that is brought in.</li> <li>Covering the soil (encapsulation) with concrete or asphalt, eliminating the possibility of future contact with the contaminated soil.</li> </ul> </li> </ul>	
Cost for turf establishment:	\$1.10 - \$2.00/s.f.
Cost for sod establishment:	\$3.80 - \$5.00/s.f.
Cost for soil tilling:	\$0.90 - \$2.00/s.f.
Cost for foundation barrier planting:	\$45 - \$85 each
Cost for tree trimming:	\$150 - \$450 average
Cost for mulch bed establishment:	\$1.50 - \$2.25/s.f.
Cost for border, vinyl or metal:	\$5.00 - \$6.25/l.f.
Cost for soil replacement at a depth of 4 inches: per square yard	\$22 - \$43/s.y..
Cost for concrete or asphalt installation:	\$3.10 - \$5.50/s,f,

## 5.0 Lead-Safe Work Practice Requirements

Lead-based paint and/or lead-based paint hazards have been identified that require lead-safe work practices and lead-based hazard controls to be implemented for any hazard control activity, repair, remodeling, or renovation effort and any other work efforts that may disturb known or assumed lead-based paint in amounts that are above HUD's *de minimis* levels. Details concerning lead-safe work practices and acceptable lead-based paint hazard control methods can be found in the *HUD Guidelines*. This document is available on the web at [www.hud.gov/offices/lead](http://www.hud.gov/offices/lead).

Lead-safe work practices should be applied to components containing lead-based paint if the total area to be disturbed exceeds 20 square feet on exterior components with large surface areas; or more than 2 square feet of deteriorated paint on interior components with large surface areas (e.g., walls, ceilings, floors, doors); or interior or exterior components with small surface areas (windows, baseboards, soffits, trim) on which more than 10 percent of the total surface area of the component is deteriorated. The above are HUD's *de minimis* levels.

Workers disturbing lead-based paint during maintenance, repair, or rehabilitation activities above HUD's *de minimis* (small or minimal) levels and any other work efforts that may disturb known or assumed lead-based paint in amounts that are above HUD's *de minimis* levels must be trained in lead-safe work practices. Information regarding painting, home maintenance, and renovation work can be referenced in *Lead Paint Safety: Field Guide for Painting, Home Maintenance, and Renovation Work* (Source:HUD/EPA/CDC). The field guide is available from the HUD web site above, in English and Spanish. Information regarding lead-safe work practices training courses are available at *The Lead Listing* ([www.leadlisting.org](http://www.leadlisting.org)) and the HUD Office of Healthy Homes and Lead Hazard Control web site ([www.hud.gov/offices/lead](http://www.hud.gov/offices/lead)) links to "Lead Training" and "Lead Training Curricula."

A clearance examination (visual inspection and dust sampling) should follow any hazard control activity, repair, remodeling, or renovation effort to ensure dust lead levels are below the EPA regulatory levels.



## Appendix 4 — Laboratory Certifications





**STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Is hereby granting a Louisiana Environmental Laboratory Accreditation to**



**EMSL Analytical Inc  
18369 Petroleum Dr  
Baton Rouge, Louisiana 70809**

**Agency Interest No. 205208  
Activity No. ACC20200001**

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

**Cheryl Sonnier Nolan  
Administrator  
Public Participation and Permit Support Services Division**

**Issued Date:** 09 June 2020  
**Effective Date:** July 1, 2020  
**Expiration Date:** June 30, 2021  
**Certificate Number:** 01950



STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY

Effective Date: July 1, 2020

18369 Petroleum Dr, Baton Rouge, Louisiana 70809

Certificate Number: 01950

EMSL Analytical Inc  
AI Number: 205208  
Activity No. ACC20200001  
Expiration Date: June 30, 2021

### Air Emissions

Analyte	Method Name	Method Code	Type	AB
1520 - Asbestos	40 CFR Part 763, Subpart E, Appendix A (Mandatory TEM)	2062	NVLAP	LA
100683 - Fungal - Direct Examination (Air)	EMSL Micro-SOP-201	9321	A2LA	LA
1075 - Lead	NIOSH 7082, Rev.2	90012230	A2LA	LA

### Non Potable Water

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE

### Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
100095 - Asbestos in Bulk Insulation	40 CFR 763, Subpart E, Appendix E (Section 1.PLM)	2004	NVLAP	LA
100681 - Fungal - Direct Examination (Bulk)	EMSL Micro-SOP-200	9322	A2LA	LA
100682 - Fungal - Direct Examination (Surface)	EMSL Micro-SOP-200	9322	A2LA	LA
1075 - Lead	EPA 3050	10135203	A2LA	LA
1075 - Lead	EPA 7000	10157401	A2LA	LA
1520 - Asbestos	EPA 600/R-93/116	10294583	NVLAP	LA

### Biological Tissue

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE



**STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Is hereby granting a Louisiana Environmental Laboratory Accreditation to**



**EMSL Analytical Inc  
200 Rt 130 N  
Cinnaminson, New Jersey 08077**

**Agency Interest No. 131900  
Activity No. ACC20200001**

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and agrees to adapt to any changes in the requirements. It also acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I and the 2009 TNI standards by which the laboratory was assessed. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

Cheryl Sonnier Nolan  
Administrator  
Public Participation and Permit Support Services Division

Issued Date: 16 June 2020

Effective Date: **July 1, 2020**  
Expiration Date: **June 30, 2021**  
Certificate Number: **04127**



STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY

Effective Date: July 1, 2020

200 Rt 130 N, Cinnaminson, New Jersey 08077

Certificate Number: 04127

EMSL Analytical Inc  
AI Number: 131900  
Activity No. ACC20200001  
Expiration Date: June 30, 2021

## Air Emissions

Analyte	Method Name	Method Code	Type	AB
100173 - Asbestos by Phase Contrast Microscopy	NIOSH 7400 (A Rules)	899	NELAP	NJ
100131 - Airborne Asbestos	40 CFR Part 763, Subpart E, Appendix A (Mandatory TEM)	2062	NELAP	NJ
100683 - Fungal - Direct Examination (Air)	EMSL 05-TP-003.5	2885	AIHA	LA
100679 - Fungal Growth in Culturable Air Samples	EMSL SOP M005	2887	AIHA	LA
100231 - Lead in Paint	EPA 7420	10164406	AIHA	LA
100233 - Lead in Soil	EPA 7420	10164406	AIHA	LA
100232 - Lead in Wipes	EPA 7420	10164406	AIHA	LA
100230 - Lead in Airborne Dust	NIOSH 7082, Rev.2	90012230	AIHA	LA
1000 - Aluminum	NIOSH 7300	90012401	AIHA	LA
1005 - Antimony	NIOSH 7300	90012401	AIHA	LA
1010 - Arsenic	NIOSH 7300	90012401	AIHA	LA
1015 - Barium	NIOSH 7300	90012401	AIHA	LA
1020 - Beryllium	NIOSH 7300	90012401	AIHA	LA
1023 - Bismuth	NIOSH 7300	90012401	AIHA	LA
1025 - Boron	NIOSH 7300	90012401	AIHA	LA
1030 - Cadmium	NIOSH 7300	90012401	AIHA	LA
1035 - Calcium	NIOSH 7300	90012401	AIHA	LA
1040 - Chromium	NIOSH 7300	90012401	AIHA	LA
1050 - Cobalt	NIOSH 7300	90012401	AIHA	LA
1055 - Copper	NIOSH 7300	90012401	AIHA	LA
1057 - Gallium	NIOSH 7300	90012401	AIHA	LA
1060 - Gold	NIOSH 7300	90012401	AIHA	LA
1070 - Iron	NIOSH 7300	90012401	AIHA	LA
1075 - Lead	NIOSH 7300	90012401	AIHA	LA
1080 - Lithium	NIOSH 7300	90012401	AIHA	LA
1085 - Magnesium	NIOSH 7300	90012401	AIHA	LA
1090 - Manganese	NIOSH 7300	90012401	AIHA	LA
1100 - Molybdenum	NIOSH 7300	90012401	AIHA	LA
1105 - Nickel	NIOSH 7300	90012401	AIHA	LA
1115 - Palladium	NIOSH 7300	90012401	AIHA	LA
1909 - Phosphorus	NIOSH 7300	90012401	AIHA	LA
1120 - Platinum	NIOSH 7300	90012401	AIHA	LA
1125 - Potassium	NIOSH 7300	90012401	AIHA	LA
1140 - Selenium	NIOSH 7300	90012401	AIHA	LA
1150 - Silver	NIOSH 7300	90012401	AIHA	LA
1162 - Tellurium	NIOSH 7300	90012401	AIHA	LA
1165 - Thallium	NIOSH 7300	90012401	AIHA	LA
1175 - Tin	NIOSH 7300	90012401	AIHA	LA
1180 - Titanium	NIOSH 7300	90012401	AIHA	LA
1183 - Tungsten	NIOSH 7300	90012401	AIHA	LA
1185 - Vanadium	NIOSH 7300	90012401	AIHA	LA
1190 - Zinc	NIOSH 7300	90012401	AIHA	LA
1192 - Zirconium	NIOSH 7300	90012401	AIHA	LA
100131 - Airborne Asbestos	NIOSH 7402, Rev.2	90018023	NELAP	NJ



# Non Potable Water

Analyte	Method Name	Method Code	Type	AB
1000 - Aluminum	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1005 - Antimony	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1010 - Arsenic	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1015 - Barium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1020 - Beryllium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1025 - Boron	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1030 - Cadmium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1035 - Calcium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1040 - Chromium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1050 - Cobalt	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1055 - Copper	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1070 - Iron	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1075 - Lead	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1085 - Magnesium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1090 - Manganese	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1100 - Molybdenum	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1105 - Nickel	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1125 - Potassium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1140 - Selenium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1150 - Silver	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1155 - Sodium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1165 - Thallium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1175 - Tin	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1180 - Titanium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1185 - Vanadium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1190 - Zinc	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1000 - Aluminum	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1005 - Antimony	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1010 - Arsenic	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1015 - Barium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1020 - Beryllium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1030 - Cadmium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1035 - Calcium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1040 - Chromium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1050 - Cobalt	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1055 - Copper	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1070 - Iron	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1075 - Lead	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1085 - Magnesium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1090 - Manganese	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1100 - Molybdenum	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1105 - Nickel	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1125 - Potassium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1140 - Selenium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1150 - Silver	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1155 - Sodium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1165 - Thallium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1175 - Tin	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1180 - Titanium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1185 - Vanadium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1190 - Zinc	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1075 - Lead	EPA 200.9, Rev.2.2	10015404	NELAP	NJ
1095 - Mercury	EPA 245.1	10036609	NELAP	NJ
2830 - Gross-alpha	EPA 900.0 (GPC)	10242601	NELAP	NJ
2840 - Gross-beta	EPA 900.0 (GPC)	10242601	NELAP	NJ

EMSL Analytical Inc

Effective Date: July 1, 2020

Certificate Number: 04127

AI Number: 131900  
Activity No. ACC20200001  
Expiration Date: June 30, 2021

Clients and Customers are urged to verify the laboratory's current certification status with the Louisiana Environmental Laboratory Accreditation Program.

## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
2965 - Radium-226	EPA 903.0	10309407	NELAP	NJ
1045 - Chromium VI	SM 3500-Cr D, 18th ED	20009001	NELAP	NJ
2985 - Radon	SM 7500-Rn B, 20th ED	20173700	NELAP	NJ

## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
100095 - Asbestos in Bulk Insulation	EPA 600/M4-82-020 (PLM)	1488	NELAP	NJ
100030 - Asbestos in Friable Material	EPA 600/M4-82-020 (PLM)	1488	NELAP	NJ
100171 - Asbestos by Transmission Electron Microscopy	NYS DOH ELAP 198.4	2015	State	NY
100172 - Asbestos by Polarized Light Microscopy	NYS DOH ELAP 198.6	2223	State	NY
100681 - Fungal - Direct Examination (Bulk)	EMSL SOP M041	2886	AIHA	LA
100682 - Fungal - Direct Examination (Surface)	EMSL SOP M041	2886	AIHA	LA
100674 - Fungal Growth in Culturable Bulk Samples	EMSL SOP M005	2887	AIHA	LA
100676 - Fungal Growth in Culturable Surface Bulk Samples	EMSL SOP M005	2887	AIHA	LA
1466 - Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311	10118806	NELAP	NJ
1400 - Acid Digestion of Sediments, Sludges, and soils	EPA 3050B	10135601	NELAP	NJ
1000 - Aluminum	EPA 6010D	10155916	NELAP	NJ
1005 - Antimony	EPA 6010D	10155916	NELAP	NJ
1010 - Arsenic	EPA 6010D	10155916	NELAP	NJ
1015 - Barium	EPA 6010D	10155916	NELAP	NJ
1020 - Beryllium	EPA 6010D	10155916	NELAP	NJ
1025 - Boron	EPA 6010D	10155916	NELAP	NJ
1030 - Cadmium	EPA 6010D	10155916	NELAP	NJ
1035 - Calcium	EPA 6010D	10155916	NELAP	NJ
1040 - Chromium	EPA 6010D	10155916	NELAP	NJ
1050 - Cobalt	EPA 6010D	10155916	NELAP	NJ
1055 - Copper	EPA 6010D	10155916	NELAP	NJ
1070 - Iron	EPA 6010D	10155916	NELAP	NJ
1075 - Lead	EPA 6010D	10155916	NELAP	NJ
1080 - Lithium	EPA 6010D	10155916	NELAP	NJ
1085 - Magnesium	EPA 6010D	10155916	NELAP	NJ
1090 - Manganese	EPA 6010D	10155916	NELAP	NJ
1100 - Molybdenum	EPA 6010D	10155916	NELAP	NJ
1105 - Nickel	EPA 6010D	10155916	NELAP	NJ
1125 - Potassium	EPA 6010D	10155916	NELAP	NJ
1140 - Selenium	EPA 6010D	10155916	NELAP	NJ
1150 - Silver	EPA 6010D	10155916	NELAP	NJ
1155 - Sodium	EPA 6010D	10155916	NELAP	NJ
1160 - Strontium	EPA 6010D	10155916	NELAP	NJ
1165 - Thallium	EPA 6010D	10155916	NELAP	NJ
1175 - Tin	EPA 6010D	10155916	NELAP	NJ
1180 - Titanium	EPA 6010D	10155916	NELAP	NJ
1185 - Vanadium	EPA 6010D	10155916	NELAP	NJ
1190 - Zinc	EPA 6010D	10155916	NELAP	NJ
1000 - Aluminum	EPA 6020B	10156420	NELAP	NJ

EMSL Analytical Inc

Effective Date: July 1, 2020

Certificate Number: 04127

AI Number: 131900  
Activity No. ACC20200001  
Expiration Date: June 30, 2021

Clients and Customers are urged to verify the laboratory's current certification status with the Louisiana Environmental Laboratory Accreditation Program.

## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
1005 - Antimony	EPA 6020B	10156420	NELAP	NJ
1010 - Arsenic	EPA 6020B	10156420	NELAP	NJ
1015 - Barium	EPA 6020B	10156420	NELAP	NJ
1020 - Beryllium	EPA 6020B	10156420	NELAP	NJ
1025 - Boron	EPA 6020B	10156420	NELAP	NJ
1030 - Cadmium	EPA 6020B	10156420	NELAP	NJ
1035 - Calcium	EPA 6020B	10156420	NELAP	NJ
1040 - Chromium	EPA 6020B	10156420	NELAP	NJ
1050 - Cobalt	EPA 6020B	10156420	NELAP	NJ
1055 - Copper	EPA 6020B	10156420	NELAP	NJ
1070 - Iron	EPA 6020B	10156420	NELAP	NJ
1075 - Lead	EPA 6020B	10156420	NELAP	NJ
1085 - Magnesium	EPA 6020B	10156420	NELAP	NJ
1090 - Manganese	EPA 6020B	10156420	NELAP	NJ
1100 - Molybdenum	EPA 6020B	10156420	NELAP	NJ
1105 - Nickel	EPA 6020B	10156420	NELAP	NJ
1125 - Potassium	EPA 6020B	10156420	NELAP	NJ
1140 - Selenium	EPA 6020B	10156420	NELAP	NJ
1150 - Silver	EPA 6020B	10156420	NELAP	NJ
1155 - Sodium	EPA 6020B	10156420	NELAP	NJ
1160 - Strontium	EPA 6020B	10156420	NELAP	NJ
1165 - Thallium	EPA 6020B	10156420	NELAP	NJ
1175 - Tin	EPA 6020B	10156420	NELAP	NJ
1180 - Titanium	EPA 6020B	10156420	NELAP	NJ
1185 - Vanadium	EPA 6020B	10156420	NELAP	NJ
1190 - Zinc	EPA 6020B	10156420	NELAP	NJ
1075 - Lead	EPA 7000B	10157707	NELAP	NJ
1045 - Chromium VI	EPA 7196A	10162400	NELAP	NJ
1075 - Lead	EPA 7420	10164406	NELAP	NJ
1075 - Lead	EPA 7421	10164600	NELAP	NJ
1095 - Mercury	EPA 7471B	10166402	NELAP	NJ
100172 - Asbestos by Polarized Light Microscopy	EPA 600/R-93/116	10294583	NELAP	NJ

## Biological Tissue

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE





**STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Is hereby granting a Louisiana Environmental Laboratory Accreditation to**



**Waypoint Analytical LLC  
2790 Whitten Rd  
Memphis, Tennessee 38133**

**Agency Interest No. 86553  
Activity No. ACC20200002**

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and agrees to adapt to any changes in the requirements. It also acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I and the 2009 TNI Standard by which the laboratory was assessed. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

**Cheryl Sonnier Nolan**  
Administrator  
Public Participation and Permit Support Services Division

**Issued Date:**

*25 June 2020*

**Effective Date: July 1, 2020  
Expiration Date: June 30, 2021  
Certificate Number: 04015**



STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY

Effective Date: July 1, 2020

2790 Whitten Rd, Memphis, Tennessee 38133

Certificate Number: 04015

Waypoint Analytical LLC  
AI Number: 86553  
Activity No.: ACC20200002  
Expiration Date: June 30, 2021

## Air Emissions

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE

## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
2050 - Total Petroleum Hydrocarbons (TPH)	Texas 1006	867	NELAP	LA
6117 - Flash Point	ASTM D93	2204	NELAP	LA
1923 - Reactive Cyanide	EPA 7.3.3.2	10001204	NELAP	LA
1925 - Reactive sulfide	EPA 7.3.4.2	10001408	NELAP	LA
1970 - Residue-volatile	EPA 160.4	10010409	NELAP	LA
1000 - Aluminum	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1005 - Antimony	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1010 - Arsenic	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1015 - Barium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1020 - Beryllium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1025 - Boron	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1030 - Cadmium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1035 - Calcium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1040 - Chromium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1050 - Cobalt	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1055 - Copper	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1750 - Hardness	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1070 - Iron	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1075 - Lead	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1085 - Magnesium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1090 - Manganese	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1100 - Molybdenum	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1105 - Nickel	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1125 - Potassium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1140 - Selenium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1995 - Silica-dissolved	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1150 - Silver	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1155 - Sodium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1160 - Strontium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1165 - Thallium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1175 - Tin	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1180 - Titanium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1910 - Total Phosphorus	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1755 - Total hardness as CaCO3	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1185 - Vanadium	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1190 - Zinc	EPA 200.7, Rev.4.4	10013806	NELAP	LA
1000 - Aluminum	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1005 - Antimony	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1010 - Arsenic	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1015 - Barium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1020 - Beryllium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1025 - Boron	EPA 200.8, Rev.5.4	10014605	NELAP	LA

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## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
1030 - Cadmium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1035 - Calcium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1040 - Chromium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1050 - Cobalt	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1055 - Copper	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1760 - Hardness (calc.)	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1070 - Iron	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1075 - Lead	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1085 - Magnesium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1090 - Manganese	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1100 - Molybdenum	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1105 - Nickel	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1125 - Potassium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1140 - Selenium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1995 - Silica-dissolved	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1150 - Silver	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1155 - Sodium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1160 - Strontium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1165 - Thallium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1175 - Tin	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1180 - Titanium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1910 - Total Phosphorus	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1185 - Vanadium	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1190 - Zinc	EPA 200.8, Rev.5.4	10014605	NELAP	LA
1095 - Mercury	EPA 245.1	10036609	NELAP	LA
1540 - Bromide	EPA 300.0	10053006	NELAP	LA
1575 - Chloride	EPA 300.0	10053006	NELAP	LA
1730 - Fluoride	EPA 300.0	10053006	NELAP	LA
1810 - Nitrate as N	EPA 300.0	10053006	NELAP	LA
1820 - Nitrate-Nitrite	EPA 300.0	10053006	NELAP	LA
1835 - Nitrite	EPA 300.0	10053006	NELAP	LA
2000 - Sulfate	EPA 300.0	10053006	NELAP	LA
1910 - Total Phosphorus	EPA 365.4	10071202	NELAP	LA
1565 - Chemical oxygen demand	EPA 410.4	10077006	NELAP	LA
1905 - Total Phenolics	EPA 420.1	10079206	NELAP	LA
4570 - 1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1, Rev.1.1	10082801	NELAP	LA
4585 - 1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 504.1, Rev.1.1	10082801	NELAP	LA
7355 - 4,4'-DDD	EPA 608	10103603	NELAP	LA
7360 - 4,4'-DDE	EPA 608	10103603	NELAP	LA
7365 - 4,4'-DDT	EPA 608	10103603	NELAP	LA
7025 - Aldrin	EPA 608	10103603	NELAP	LA
8880 - Aroclor-1016 (PCB-1016)	EPA 608	10103603	NELAP	LA
8885 - Aroclor-1221 (PCB-1221)	EPA 608	10103603	NELAP	LA
8890 - Aroclor-1232 (PCB-1232)	EPA 608	10103603	NELAP	LA
8895 - Aroclor-1242 (PCB-1242)	EPA 608	10103603	NELAP	LA
8900 - Aroclor-1248 (PCB-1248)	EPA 608	10103603	NELAP	LA
8905 - Aroclor-1254 (PCB-1254)	EPA 608	10103603	NELAP	LA
8910 - Aroclor-1260 (PCB-1260)	EPA 608	10103603	NELAP	LA
7250 - Chlordane (tech.)	EPA 608	10103603	NELAP	LA
7470 - Dieldrin	EPA 608	10103603	NELAP	LA
7510 - Endosulfan I	EPA 608	10103603	NELAP	LA
7515 - Endosulfan II	EPA 608	10103603	NELAP	LA
7520 - Endosulfan sulfate	EPA 608	10103603	NELAP	LA

Waypoint Analytical LLC

Effective Date: July 1, 2020

Certificate Number: 04015

AI Number: 86553  
Activity No.: ACC20200002  
Expiration Date: June 30, 2021

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## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
7540 - Endrin	EPA 608	10103603	NELAP	LA
7530 - Endrin aldehyde	EPA 608	10103603	NELAP	LA
7685 - Heptachlor	EPA 608	10103603	NELAP	LA
7690 - Heptachlor epoxide	EPA 608	10103603	NELAP	LA
7810 - Methoxychlor	EPA 608	10103603	NELAP	LA
8250 - Toxaphene (Chlorinated camphene)	EPA 608	10103603	NELAP	LA
7110 - alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 608	10103603	NELAP	LA
7115 - beta-BHC (beta-Hexachlorocyclohexane)	EPA 608	10103603	NELAP	LA
7105 - delta-BHC	EPA 608	10103603	NELAP	LA
7120 - gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 608	10103603	NELAP	LA
6275 - Hexachlorobenzene	EPA 612	10104800	NELAP	LA
8655 - 2,4,5-T	EPA 615	10105609	NELAP	LA
8545 - 2,4-D	EPA 615	10105609	NELAP	LA
8560 - 2,4-DB	EPA 615	10105609	NELAP	LA
8555 - Dalapon	EPA 615	10105609	NELAP	LA
8595 - Dicamba	EPA 615	10105609	NELAP	LA
8605 - Dichloroprop (Dichloroprop)	EPA 615	10105609	NELAP	LA
8620 - Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 615	10105609	NELAP	LA
7775 - MCPA	EPA 615	10105609	NELAP	LA
7780 - MCPP	EPA 615	10105609	NELAP	LA
8645 - Picloram	EPA 615	10105609	NELAP	LA
8650 - Silvex (2,4,5-TP)	EPA 615	10105609	NELAP	LA
5160 - 1,1,1-Trichloroethane	EPA 624	10107207	NELAP	LA
5110 - 1,1,2,2-Tetrachloroethane	EPA 624	10107207	NELAP	LA
5165 - 1,1,2-Trichloroethane	EPA 624	10107207	NELAP	LA
4630 - 1,1-Dichloroethane	EPA 624	10107207	NELAP	LA
4640 - 1,1-Dichloroethylene	EPA 624	10107207	NELAP	LA
4610 - 1,2-Dichlorobenzene	EPA 624	10107207	NELAP	LA
4635 - 1,2-Dichloroethane (Ethylene dichloride)	EPA 624	10107207	NELAP	LA
4655 - 1,2-Dichloropropane	EPA 624	10107207	NELAP	LA
4615 - 1,3-Dichlorobenzene	EPA 624	10107207	NELAP	LA
4620 - 1,4-Dichlorobenzene	EPA 624	10107207	NELAP	LA
4500 - 2-Chloroethyl vinyl ether	EPA 624	10107207	NELAP	LA
4320 - Acetonitrile	EPA 624	10107207	NELAP	LA
4325 - Acrolein (Propenal)	EPA 624	10107207	NELAP	LA
4340 - Acrylonitrile	EPA 624	10107207	NELAP	LA
4375 - Benzene	EPA 624	10107207	NELAP	LA
4395 - Bromodichloromethane	EPA 624	10107207	NELAP	LA
4400 - Bromoform	EPA 624	10107207	NELAP	LA
4455 - Carbon tetrachloride	EPA 624	10107207	NELAP	LA
4475 - Chlorobenzene	EPA 624	10107207	NELAP	LA
4575 - Chlorodibromomethane (dibromochloromethane)	EPA 624	10107207	NELAP	LA
4485 - Chloroethane (Ethyl chloride)	EPA 624	10107207	NELAP	LA
4505 - Chloroform	EPA 624	10107207	NELAP	LA
4765 - Ethylbenzene	EPA 624	10107207	NELAP	LA
4950 - Methyl bromide (Bromomethane)	EPA 624	10107207	NELAP	LA
4960 - Methyl chloride (Chloromethane)	EPA 624	10107207	NELAP	LA
5000 - Methyl tert-butyl ether (MTBE)	EPA 624	10107207	NELAP	LA
4975 - Methylene chloride	EPA 624	10107207	NELAP	LA

Waypoint Analytical LLC

Effective Date: July 1, 2020

Certificate Number: 04015

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AI Number: 86553  
Activity No.: ACC20200002  
Expiration Date: June 30, 2021



# Non Potable Water

Analyte	Method Name	Method Code	Type	AB
(Dichloromethane)				
5115 - Tetrachloroethylene	EPA 624	10107207	NELAP	LA
(Perchloroethylene)				
5140 - Toluene	EPA 624	10107207	NELAP	LA
5170 - Trichloroethene (Trichloroethylene)	EPA 624	10107207	NELAP	LA
5175 - Trichlorofluoromethane	EPA 624	10107207	NELAP	LA
(Fluorotrichloromethane, Freon 11)				
5235 - Vinyl chloride	EPA 624	10107207	NELAP	LA
5260 - Xylene (total)	EPA 624	10107207	NELAP	LA
4680 - cis-1,3-Dichloropropene	EPA 624	10107207	NELAP	LA
4700 - trans-1,2-Dichloroethylene	EPA 624	10107207	NELAP	LA
4685 - trans-1,3-Dichloropropylene	EPA 624	10107207	NELAP	LA
5155 - 1,2,4-Trichlorobenzene	EPA 625	10107401	NELAP	LA
4610 - 1,2-Dichlorobenzene	EPA 625	10107401	NELAP	LA
4615 - 1,3-Dichlorobenzene	EPA 625	10107401	NELAP	LA
4620 - 1,4-Dichlorobenzene	EPA 625	10107401	NELAP	LA
4659 - 2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether (bis(2-chloroisopropyl)ether)	EPA 625	10107401	NELAP	LA
6016 - 2,3-Dinitrophenol	EPA 625	10107401	NELAP	LA
6835 - 2,4,5-Trichlorophenol	EPA 625	10107401	NELAP	LA
6840 - 2,4,6-Trichlorophenol	EPA 625	10107401	NELAP	LA
6000 - 2,4-Dichlorophenol	EPA 625	10107401	NELAP	LA
6130 - 2,4-Dimethylphenol	EPA 625	10107401	NELAP	LA
6175 - 2,4-Dinitrophenol	EPA 625	10107401	NELAP	LA
6185 - 2,4-Dinitrotoluene (2,4-DNT)	EPA 625	10107401	NELAP	LA
6190 - 2,6-Dinitrotoluene (2,6-DNT)	EPA 625	10107401	NELAP	LA
5795 - 2-Chloronaphthalene	EPA 625	10107401	NELAP	LA
5800 - 2-Chlorophenol	EPA 625	10107401	NELAP	LA
6360 - 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 625	10107401	NELAP	LA
6490 - 2-Nitrophenol	EPA 625	10107401	NELAP	LA
5945 - 3,3'-Dichlorobenzidine	EPA 625	10107401	NELAP	LA
5660 - 4-Bromophenyl phenyl ether	EPA 625	10107401	NELAP	LA
5700 - 4-Chloro-3-methylphenol	EPA 625	10107401	NELAP	LA
5825 - 4-Chlorophenyl phenylether	EPA 625	10107401	NELAP	LA
6500 - 4-Nitrophenol	EPA 625	10107401	NELAP	LA
5500 - Acenaphthene	EPA 625	10107401	NELAP	LA
5505 - Acenaphthylene	EPA 625	10107401	NELAP	LA
5555 - Anthracene	EPA 625	10107401	NELAP	LA
5575 - Benz(a)anthracene	EPA 625	10107401	NELAP	LA
5595 - Benzidine	EPA 625	10107401	NELAP	LA
5580 - Benzo(a)pyrene	EPA 625	10107401	NELAP	LA
5585 - Benzo(b)fluoranthene	EPA 625	10107401	NELAP	LA
5590 - Benzo(g,h,i)perylene	EPA 625	10107401	NELAP	LA
5600 - Benzo(k)fluoranthene	EPA 625	10107401	NELAP	LA
5780 - Bis(2-Chloroisopropyl) ether (2,2-oxybis(1-chloropropane))	EPA 625	10107401	NELAP	LA
5670 - Butyl benzyl phthalate	EPA 625	10107401	NELAP	LA
5680 - Carbazole	EPA 625	10107401	NELAP	LA
5855 - Chrysene	EPA 625	10107401	NELAP	LA
6065 - Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 625	10107401	NELAP	LA
5925 - Di-n-butyl phthalate	EPA 625	10107401	NELAP	LA
6200 - Di-n-octyl phthalate	EPA 625	10107401	NELAP	LA

Waypoint Analytical LLC

Effective Date: July 1, 2020

Certificate Number: 04015

AI Number: 86553

Activity No.: ACC20200002

Expiration Date: June 30, 2021

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## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
5895 - Dibenzo(a,h)anthracene	EPA 625	10107401	NELAP	LA
6070 - Diethyl phthalate	EPA 625	10107401	NELAP	LA
6135 - Dimethyl phthalate	EPA 625	10107401	NELAP	LA
6265 - Fluoranthene	EPA 625	10107401	NELAP	LA
6270 - Fluorene	EPA 625	10107401	NELAP	LA
6275 - Hexachlorobenzene	EPA 625	10107401	NELAP	LA
4835 - Hexachlorobutadiene	EPA 625	10107401	NELAP	LA
6285 - Hexachlorocyclopentadiene	EPA 625	10107401	NELAP	LA
4840 - Hexachloroethane	EPA 625	10107401	NELAP	LA
6315 - Indeno(1,2,3-cd)pyrene	EPA 625	10107401	NELAP	LA
6320 - Isophorone	EPA 625	10107401	NELAP	LA
5005 - Naphthalene	EPA 625	10107401	NELAP	LA
5015 - Nitrobenzene	EPA 625	10107401	NELAP	LA
6605 - Pentachlorophenol	EPA 625	10107401	NELAP	LA
6615 - Phenanthrene	EPA 625	10107401	NELAP	LA
6625 - Phenol	EPA 625	10107401	NELAP	LA
6665 - Pyrene	EPA 625	10107401	NELAP	LA
5760 - bis(2-Chloroethoxy)methane	EPA 625	10107401	NELAP	LA
5765 - bis(2-Chloroethyl) ether	EPA 625	10107401	NELAP	LA
5875 - n-Decane	EPA 625	10107401	NELAP	LA
6545 - n-Nitrosodi-n-propylamine	EPA 625	10107401	NELAP	LA
6530 - n-Nitrosodimethylamine	EPA 625	10107401	NELAP	LA
6535 - n-Nitrosodiphenylamine	EPA 625	10107401	NELAP	LA
6580 - n-Octadecane	EPA 625	10107401	NELAP	LA
1860 - Oil & Grease	EPA 1664A (HEM)	10127807	NELAP	LA
2050 - Total Petroleum Hydrocarbons (TPH)	EPA 1664A (HEM)	10127807	NELAP	LA
1401 - Acid Digestion of waters for Total Recoverable or Dissolved Metals	EPA 3005A	10133207	NELAP	LA
1400 - Acid Digestion of Sediments, Sludges, and soils	EPA 3050B	10135601	NELAP	LA
1444 - Separatory Funnel Liquid-liquid extraction	EPA 3510C	10138202	NELAP	LA
1428 - Microwave Extraction	EPA 3546	10141205	NELAP	LA
1468 - Ultrasonic Extraction	EPA 3550C	10142004	NELAP	LA
1470 - Waste Dilution	EPA 3580A	10143007	NELAP	LA
1406 - Purge and trap for aqueous phase samples	EPA 5030A	10153205	NELAP	LA
1406 - Purge and trap for aqueous phase samples	EPA 5030B	10153409	NELAP	LA
1450 - Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples	EPA 5035	10154004	NELAP	LA
1000 - Aluminum	EPA 6010B	10155609	NELAP	LA
1005 - Antimony	EPA 6010B	10155609	NELAP	LA
1010 - Arsenic	EPA 6010B	10155609	NELAP	LA
1015 - Barium	EPA 6010B	10155609	NELAP	LA
1020 - Beryllium	EPA 6010B	10155609	NELAP	LA
1025 - Boron	EPA 6010B	10155609	NELAP	LA
1030 - Cadmium	EPA 6010B	10155609	NELAP	LA
1035 - Calcium	EPA 6010B	10155609	NELAP	LA
1040 - Chromium	EPA 6010B	10155609	NELAP	LA
1050 - Cobalt	EPA 6010B	10155609	NELAP	LA
1055 - Copper	EPA 6010B	10155609	NELAP	LA
1070 - Iron	EPA 6010B	10155609	NELAP	LA

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Analyte	Method Name	Method Code	Type	AB
1075 - Lead	EPA 6010B	10155609	NELAP	LA
1085 - Magnesium	EPA 6010B	10155609	NELAP	LA
1090 - Manganese	EPA 6010B	10155609	NELAP	LA
1100 - Molybdenum	EPA 6010B	10155609	NELAP	LA
1105 - Nickel	EPA 6010B	10155609	NELAP	LA
1125 - Potassium	EPA 6010B	10155609	NELAP	LA
1140 - Selenium	EPA 6010B	10155609	NELAP	LA
1990 - Silica as SiO2	EPA 6010B	10155609	NELAP	LA
1150 - Silver	EPA 6010B	10155609	NELAP	LA
1155 - Sodium	EPA 6010B	10155609	NELAP	LA
1160 - Strontium	EPA 6010B	10155609	NELAP	LA
1165 - Thallium	EPA 6010B	10155609	NELAP	LA
1175 - Tin	EPA 6010B	10155609	NELAP	LA
1180 - Titanium	EPA 6010B	10155609	NELAP	LA
1910 - Total Phosphorus	EPA 6010B	10155609	NELAP	LA
1185 - Vanadium	EPA 6010B	10155609	NELAP	LA
1190 - Zinc	EPA 6010B	10155609	NELAP	LA
1000 - Aluminum	EPA 6010C	10155803	NELAP	LA
1005 - Antimony	EPA 6010C	10155803	NELAP	LA
1010 - Arsenic	EPA 6010C	10155803	NELAP	LA
1015 - Barium	EPA 6010C	10155803	NELAP	LA
1020 - Beryllium	EPA 6010C	10155803	NELAP	LA
1025 - Boron	EPA 6010C	10155803	NELAP	LA
1030 - Cadmium	EPA 6010C	10155803	NELAP	LA
1035 - Calcium	EPA 6010C	10155803	NELAP	LA
1040 - Chromium	EPA 6010C	10155803	NELAP	LA
1050 - Cobalt	EPA 6010C	10155803	NELAP	LA
1055 - Copper	EPA 6010C	10155803	NELAP	LA
1070 - Iron	EPA 6010C	10155803	NELAP	LA
1075 - Lead	EPA 6010C	10155803	NELAP	LA
1085 - Magnesium	EPA 6010C	10155803	NELAP	LA
1090 - Manganese	EPA 6010C	10155803	NELAP	LA
1100 - Molybdenum	EPA 6010C	10155803	NELAP	LA
1105 - Nickel	EPA 6010C	10155803	NELAP	LA
1125 - Potassium	EPA 6010C	10155803	NELAP	LA
1140 - Selenium	EPA 6010C	10155803	NELAP	LA
1990 - Silica as SiO2	EPA 6010C	10155803	NELAP	LA
1150 - Silver	EPA 6010C	10155803	NELAP	LA
1155 - Sodium	EPA 6010C	10155803	NELAP	LA
1160 - Strontium	EPA 6010C	10155803	NELAP	LA
1165 - Thallium	EPA 6010C	10155803	NELAP	LA
1175 - Tin	EPA 6010C	10155803	NELAP	LA
1180 - Titanium	EPA 6010C	10155803	NELAP	LA
1910 - Total Phosphorus	EPA 6010C	10155803	NELAP	LA
1185 - Vanadium	EPA 6010C	10155803	NELAP	LA
1190 - Zinc	EPA 6010C	10155803	NELAP	LA
1000 - Aluminum	EPA 6010D	10155916	NELAP	LA
1005 - Antimony	EPA 6010D	10155916	NELAP	LA
1010 - Arsenic	EPA 6010D	10155916	NELAP	LA
1015 - Barium	EPA 6010D	10155916	NELAP	LA
1020 - Beryllium	EPA 6010D	10155916	NELAP	LA
1025 - Boron	EPA 6010D	10155916	NELAP	LA
1030 - Cadmium	EPA 6010D	10155916	NELAP	LA
1035 - Calcium	EPA 6010D	10155916	NELAP	LA
1040 - Chromium	EPA 6010D	10155916	NELAP	LA

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Analyte	Method Name	Method Code	Type	AB
1050 - Cobalt	EPA 6010D	10155916	NELAP	LA
1055 - Copper	EPA 6010D	10155916	NELAP	LA
1070 - Iron	EPA 6010D	10155916	NELAP	LA
1075 - Lead	EPA 6010D	10155916	NELAP	LA
1085 - Magnesium	EPA 6010D	10155916	NELAP	LA
1090 - Manganese	EPA 6010D	10155916	NELAP	LA
1100 - Molybdenum	EPA 6010D	10155916	NELAP	LA
1105 - Nickel	EPA 6010D	10155916	NELAP	LA
1909 - Phosphorus	EPA 6010D	10155916	NELAP	LA
1125 - Potassium	EPA 6010D	10155916	NELAP	LA
1140 - Selenium	EPA 6010D	10155916	NELAP	LA
1990 - Silica as SiO2	EPA 6010D	10155916	NELAP	LA
1150 - Silver	EPA 6010D	10155916	NELAP	LA
1155 - Sodium	EPA 6010D	10155916	NELAP	LA
1160 - Strontium	EPA 6010D	10155916	NELAP	LA
1165 - Thallium	EPA 6010D	10155916	NELAP	LA
1175 - Tin	EPA 6010D	10155916	NELAP	LA
1180 - Titanium	EPA 6010D	10155916	NELAP	LA
1185 - Vanadium	EPA 6010D	10155916	NELAP	LA
1190 - Zinc	EPA 6010D	10155916	NELAP	LA
1000 - Aluminum	EPA 6020	10156000	NELAP	LA
1005 - Antimony	EPA 6020	10156000	NELAP	LA
1010 - Arsenic	EPA 6020	10156000	NELAP	LA
1015 - Barium	EPA 6020	10156000	NELAP	LA
1020 - Beryllium	EPA 6020	10156000	NELAP	LA
1025 - Boron	EPA 6020	10156000	NELAP	LA
1030 - Cadmium	EPA 6020	10156000	NELAP	LA
1035 - Calcium	EPA 6020	10156000	NELAP	LA
1040 - Chromium	EPA 6020	10156000	NELAP	LA
1050 - Cobalt	EPA 6020	10156000	NELAP	LA
1055 - Copper	EPA 6020	10156000	NELAP	LA
1070 - Iron	EPA 6020	10156000	NELAP	LA
1075 - Lead	EPA 6020	10156000	NELAP	LA
1085 - Magnesium	EPA 6020	10156000	NELAP	LA
1090 - Manganese	EPA 6020	10156000	NELAP	LA
1100 - Molybdenum	EPA 6020	10156000	NELAP	LA
1105 - Nickel	EPA 6020	10156000	NELAP	LA
1125 - Potassium	EPA 6020	10156000	NELAP	LA
1140 - Selenium	EPA 6020	10156000	NELAP	LA
1150 - Silver	EPA 6020	10156000	NELAP	LA
1155 - Sodium	EPA 6020	10156000	NELAP	LA
1160 - Strontium	EPA 6020	10156000	NELAP	LA
1165 - Thallium	EPA 6020	10156000	NELAP	LA
1175 - Tin	EPA 6020	10156000	NELAP	LA
1180 - Titanium	EPA 6020	10156000	NELAP	LA
1185 - Vanadium	EPA 6020	10156000	NELAP	LA
1190 - Zinc	EPA 6020	10156000	NELAP	LA
1910 - Total Phosphorus	EPA 6020	10156204	NELAP	LA
1160 - Strontium	EPA 6020A	10156408	NELAP	LA
1175 - Tin	EPA 6020A	10156408	NELAP	LA
1180 - Titanium	EPA 6020A	10156408	NELAP	LA
1910 - Total Phosphorus	EPA 6020A	10156408	NELAP	LA
1000 - Aluminum	EPA 6020A, Rev.1	10156419	NELAP	LA
1005 - Antimony	EPA 6020A, Rev.1	10156419	NELAP	LA
1010 - Arsenic	EPA 6020A, Rev.1	10156419	NELAP	LA

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Analyte	Method Name	Method Code	Type	AB
1015 - Barium	EPA 6020A, Rev.1	10156419	NELAP	LA
1020 - Beryllium	EPA 6020A, Rev.1	10156419	NELAP	LA
1025 - Boron	EPA 6020A, Rev.1	10156419	NELAP	LA
1030 - Cadmium	EPA 6020A, Rev.1	10156419	NELAP	LA
1035 - Calcium	EPA 6020A, Rev.1	10156419	NELAP	LA
1040 - Chromium	EPA 6020A, Rev.1	10156419	NELAP	LA
1050 - Cobalt	EPA 6020A, Rev.1	10156419	NELAP	LA
1055 - Copper	EPA 6020A, Rev.1	10156419	NELAP	LA
1070 - Iron	EPA 6020A, Rev.1	10156419	NELAP	LA
1075 - Lead	EPA 6020A, Rev.1	10156419	NELAP	LA
1085 - Magnesium	EPA 6020A, Rev.1	10156419	NELAP	LA
1090 - Manganese	EPA 6020A, Rev.1	10156419	NELAP	LA
1100 - Molybdenum	EPA 6020A, Rev.1	10156419	NELAP	LA
1105 - Nickel	EPA 6020A, Rev.1	10156419	NELAP	LA
1125 - Potassium	EPA 6020A, Rev.1	10156419	NELAP	LA
1140 - Selenium	EPA 6020A, Rev.1	10156419	NELAP	LA
1150 - Silver	EPA 6020A, Rev.1	10156419	NELAP	LA
1155 - Sodium	EPA 6020A, Rev.1	10156419	NELAP	LA
1165 - Thallium	EPA 6020A, Rev.1	10156419	NELAP	LA
1185 - Vanadium	EPA 6020A, Rev.1	10156419	NELAP	LA
1190 - Zinc	EPA 6020A, Rev.1	10156419	NELAP	LA
1000 - Aluminum	EPA 6020B	10156420	NELAP	LA
1005 - Antimony	EPA 6020B	10156420	NELAP	LA
1010 - Arsenic	EPA 6020B	10156420	NELAP	LA
1015 - Barium	EPA 6020B	10156420	NELAP	LA
1020 - Beryllium	EPA 6020B	10156420	NELAP	LA
1025 - Boron	EPA 6020B	10156420	NELAP	LA
1030 - Cadmium	EPA 6020B	10156420	NELAP	LA
1035 - Calcium	EPA 6020B	10156420	NELAP	LA
1040 - Chromium	EPA 6020B	10156420	NELAP	LA
1050 - Cobalt	EPA 6020B	10156420	NELAP	LA
1055 - Copper	EPA 6020B	10156420	NELAP	LA
1070 - Iron	EPA 6020B	10156420	NELAP	LA
1075 - Lead	EPA 6020B	10156420	NELAP	LA
1085 - Magnesium	EPA 6020B	10156420	NELAP	LA
1090 - Manganese	EPA 6020B	10156420	NELAP	LA
1100 - Molybdenum	EPA 6020B	10156420	NELAP	LA
1105 - Nickel	EPA 6020B	10156420	NELAP	LA
1125 - Potassium	EPA 6020B	10156420	NELAP	LA
1140 - Selenium	EPA 6020B	10156420	NELAP	LA
1150 - Silver	EPA 6020B	10156420	NELAP	LA
1155 - Sodium	EPA 6020B	10156420	NELAP	LA
1160 - Strontium	EPA 6020B	10156420	NELAP	LA
1165 - Thallium	EPA 6020B	10156420	NELAP	LA
1175 - Tin	EPA 6020B	10156420	NELAP	LA
1180 - Titanium	EPA 6020B	10156420	NELAP	LA
1910 - Total Phosphorus	EPA 6020B	10156420	NELAP	LA
1185 - Vanadium	EPA 6020B	10156420	NELAP	LA
1190 - Zinc	EPA 6020B	10156420	NELAP	LA
1095 - Mercury	EPA 7470A	10165807	NELAP	LA
4570 - 1,2-Dibromo-3-chloropropane (DBCP)	EPA 8011	10173009	NELAP	LA
4585 - 1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8011	10173009	NELAP	LA
4580 - Dibromochloropropane	EPA 8011	10173009	NELAP	LA

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## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
9369 - Diesel range organics (DRO)	EPA 8015B	10173601	NELAP	LA
9408 - Gasoline range organics (GRO)	EPA 8015B	10173601	NELAP	LA
9408 - Gasoline range organics (GRO)	EPA 8015C	10173805	NELAP	LA
9369 - Diesel range organics (DRO)	EPA 8015C, Rev.3	10173816	NELAP	LA
4720 - Diethylene glycol	EPA 8015C, Rev.3	10173816	NELAP	LA
4785 - Ethylene glycol	EPA 8015C, Rev.3	10173816	NELAP	LA
6657 - Propylene Glycol	EPA 8015C, Rev.3	10173816	NELAP	LA
9646 - Triethylene Glycol	EPA 8015C, Rev.3	10173816	NELAP	LA
7355 - 4,4'-DDD	EPA 8081B, Rev.2	10178811	NELAP	LA
7360 - 4,4'-DDE	EPA 8081B, Rev.2	10178811	NELAP	LA
7365 - 4,4'-DDT	EPA 8081B, Rev.2	10178811	NELAP	LA
7025 - Aldrin	EPA 8081B, Rev.2	10178811	NELAP	LA
7250 - Chlordane (tech.)	EPA 8081B, Rev.2	10178811	NELAP	LA
7470 - Dieldrin	EPA 8081B, Rev.2	10178811	NELAP	LA
7510 - Endosulfan I	EPA 8081B, Rev.2	10178811	NELAP	LA
7515 - Endosulfan II	EPA 8081B, Rev.2	10178811	NELAP	LA
7520 - Endosulfan sulfate	EPA 8081B, Rev.2	10178811	NELAP	LA
7540 - Endrin	EPA 8081B, Rev.2	10178811	NELAP	LA
7530 - Endrin aldehyde	EPA 8081B, Rev.2	10178811	NELAP	LA
7535 - Endrin ketone	EPA 8081B, Rev.2	10178811	NELAP	LA
7685 - Heptachlor	EPA 8081B, Rev.2	10178811	NELAP	LA
7690 - Heptachlor epoxide	EPA 8081B, Rev.2	10178811	NELAP	LA
7810 - Methoxychlor	EPA 8081B, Rev.2	10178811	NELAP	LA
8250 - Toxaphene (Chlorinated camphene)	EPA 8081B, Rev.2	10178811	NELAP	LA
7110 - alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081B, Rev.2	10178811	NELAP	LA
7240 - alpha-Chlordane	EPA 8081B, Rev.2	10178811	NELAP	LA
7115 - beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081B, Rev.2	10178811	NELAP	LA
7105 - delta-BHC	EPA 8081B, Rev.2	10178811	NELAP	LA
7120 - gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081B, Rev.2	10178811	NELAP	LA
7245 - gamma-Chlordane	EPA 8081B, Rev.2	10178811	NELAP	LA
8880 - Aroclor-1016 (PCB-1016)	EPA 8082A	10179201	NELAP	LA
8885 - Aroclor-1221 (PCB-1221)	EPA 8082A	10179201	NELAP	LA
8890 - Aroclor-1232 (PCB-1232)	EPA 8082A	10179201	NELAP	LA
8895 - Aroclor-1242 (PCB-1242)	EPA 8082A	10179201	NELAP	LA
8900 - Aroclor-1248 (PCB-1248)	EPA 8082A	10179201	NELAP	LA
8905 - Aroclor-1254 (PCB-1254)	EPA 8082A	10179201	NELAP	LA
8910 - Aroclor-1260 (PCB-1260)	EPA 8082A	10179201	NELAP	LA
8655 - 2,4,5-T	EPA 8151A	10183207	NELAP	LA
8545 - 2,4-D	EPA 8151A	10183207	NELAP	LA
8560 - 2,4-DB	EPA 8151A	10183207	NELAP	LA
8555 - Dalapon	EPA 8151A	10183207	NELAP	LA
8595 - Dicamba	EPA 8151A	10183207	NELAP	LA
8605 - Dichloroprop (Dichloroprop)	EPA 8151A	10183207	NELAP	LA
8620 - Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151A	10183207	NELAP	LA
7775 - MCPA	EPA 8151A	10183207	NELAP	LA
7780 - MCPP	EPA 8151A	10183207	NELAP	LA
6605 - Pentachlorophenol	EPA 8151A	10183207	NELAP	LA
8645 - Picloram	EPA 8151A	10183207	NELAP	LA
8650 - Silvex (2,4,5-TP)	EPA 8151A	10183207	NELAP	LA
5105 - 1,1,1,2-Tetrachloroethane	EPA 8260B	10184802	NELAP	LA
5160 - 1,1,1-Trichloroethane	EPA 8260B	10184802	NELAP	LA

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Analyte	Method Name	Method Code	Type	AB
5110 - 1,1,2,2-Tetrachloroethane	EPA 8260B	10184802	NELAP	LA
5165 - 1,1,2-Trichloroethane	EPA 8260B	10184802	NELAP	LA
4630 - 1,1-Dichloroethane	EPA 8260B	10184802	NELAP	LA
4640 - 1,1-Dichloroethylene	EPA 8260B	10184802	NELAP	LA
4670 - 1,1-Dichloropropene	EPA 8260B	10184802	NELAP	LA
9557 - 1,1-dimethylethyl ester (tert-Butyl Formate)	EPA 8260B	10184802	NELAP	LA
5150 - 1,2,3-Trichlorobenzene	EPA 8260B	10184802	NELAP	LA
5180 - 1,2,3-Trichloropropane	EPA 8260B	10184802	NELAP	LA
5155 - 1,2,4-Trichlorobenzene	EPA 8260B	10184802	NELAP	LA
5210 - 1,2,4-Trimethylbenzene	EPA 8260B	10184802	NELAP	LA
4570 - 1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260B	10184802	NELAP	LA
4585 - 1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260B	10184802	NELAP	LA
4610 - 1,2-Dichlorobenzene	EPA 8260B	10184802	NELAP	LA
4635 - 1,2-Dichloroethane (Ethylene dichloride)	EPA 8260B	10184802	NELAP	LA
4655 - 1,2-Dichloropropane	EPA 8260B	10184802	NELAP	LA
5215 - 1,3,5-Trimethylbenzene	EPA 8260B	10184802	NELAP	LA
4615 - 1,3-Dichlorobenzene	EPA 8260B	10184802	NELAP	LA
4660 - 1,3-Dichloropropane	EPA 8260B	10184802	NELAP	LA
4620 - 1,4-Dichlorobenzene	EPA 8260B	10184802	NELAP	LA
4665 - 2,2-Dichloropropane	EPA 8260B	10184802	NELAP	LA
4410 - 2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260B	10184802	NELAP	LA
4500 - 2-Chloroethyl vinyl ether	EPA 8260B	10184802	NELAP	LA
4535 - 2-Chlorotoluene	EPA 8260B	10184802	NELAP	LA
4860 - 2-Hexanone	EPA 8260B	10184802	NELAP	LA
4368 - 2-methyl-2-butanol (tert-Amyl alcohol)	EPA 8260B	10184802	NELAP	LA
6103 - 3,3-dimethyl-1-butanol	EPA 8260B	10184802	NELAP	LA
4540 - 4-Chlorotoluene	EPA 8260B	10184802	NELAP	LA
4910 - 4-Isopropyltoluene (p-Cymene)	EPA 8260B	10184802	NELAP	LA
4995 - 4-Methyl-2-pentanone (MIBK)	EPA 8260B	10184802	NELAP	LA
4315 - Acetone	EPA 8260B	10184802	NELAP	LA
4320 - Acetonitrile	EPA 8260B	10184802	NELAP	LA
4325 - Acrolein (Propenal)	EPA 8260B	10184802	NELAP	LA
4330 - Acrylamide	EPA 8260B	10184802	NELAP	LA
4340 - Acrylonitrile	EPA 8260B	10184802	NELAP	LA
4375 - Benzene	EPA 8260B	10184802	NELAP	LA
4385 - Bromobenzene	EPA 8260B	10184802	NELAP	LA
4390 - Bromochloromethane	EPA 8260B	10184802	NELAP	LA
4395 - Bromodichloromethane	EPA 8260B	10184802	NELAP	LA
4400 - Bromoform	EPA 8260B	10184802	NELAP	LA
4450 - Carbon disulfide	EPA 8260B	10184802	NELAP	LA
4455 - Carbon tetrachloride	EPA 8260B	10184802	NELAP	LA
4475 - Chlorobenzene	EPA 8260B	10184802	NELAP	LA
4575 - Chlorodibromomethane (dibromochloromethane)	EPA 8260B	10184802	NELAP	LA
4485 - Chloroethane (Ethyl chloride)	EPA 8260B	10184802	NELAP	LA
4505 - Chloroform	EPA 8260B	10184802	NELAP	LA
9375 - Di-isopropylether (DIPE) (Isopropyl ether)	EPA 8260B	10184802	NELAP	LA
4595 - Dibromomethane (Methylene	EPA 8260B	10184802	NELAP	LA

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## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
bromide)				
4625 - Dichlorodifluoromethane (Freon-12)	EPA 8260B	10184802	NELAP	LA
4750 - Ethanol	EPA 8260B	10184802	NELAP	LA
4770 - Ethyl-t-butyl ether (ETBE) (2-Ethoxy-2-methylpropane)	EPA 8260B	10184802	NELAP	LA
4765 - Ethylbenzene	EPA 8260B	10184802	NELAP	LA
4835 - Hexachlorobutadiene	EPA 8260B	10184802	NELAP	LA
4840 - Hexachloroethane	EPA 8260B	10184802	NELAP	LA
4900 - Isopropylbenzene (Cumene)	EPA 8260B	10184802	NELAP	LA
4950 - Methyl bromide (Bromomethane)	EPA 8260B	10184802	NELAP	LA
4960 - Methyl chloride (Chloromethane)	EPA 8260B	10184802	NELAP	LA
5000 - Methyl tert-butyl ether (MTBE)	EPA 8260B	10184802	NELAP	LA
4975 - Methylene chloride	EPA 8260B	10184802	NELAP	LA
(Dichloromethane)				
5005 - Naphthalene	EPA 8260B	10184802	NELAP	LA
5015 - Nitrobenzene	EPA 8260B	10184802	NELAP	LA
5100 - Styrene	EPA 8260B	10184802	NELAP	LA
4370 - T-amylmethylether (TAME)	EPA 8260B	10184802	NELAP	LA
5115 - Tetrachloroethylene	EPA 8260B	10184802	NELAP	LA
(Perchloroethylene)				
5140 - Toluene	EPA 8260B	10184802	NELAP	LA
5170 - Trichloroethene (Trichloroethylene)	EPA 8260B	10184802	NELAP	LA
5175 - Trichlorofluoromethane	EPA 8260B	10184802	NELAP	LA
(Fluorotrichloromethane, Freon 11)				
5225 - Vinyl acetate	EPA 8260B	10184802	NELAP	LA
5235 - Vinyl chloride	EPA 8260B	10184802	NELAP	LA
4645 - cis-1,2-Dichloroethylene	EPA 8260B	10184802	NELAP	LA
4680 - cis-1,3-Dichloropropene	EPA 8260B	10184802	NELAP	LA
5245 - m-Xylene	EPA 8260B	10184802	NELAP	LA
4435 - n-Butylbenzene	EPA 8260B	10184802	NELAP	LA
5090 - n-Propylbenzene	EPA 8260B	10184802	NELAP	LA
5250 - o-Xylene	EPA 8260B	10184802	NELAP	LA
5255 - p-Xylene	EPA 8260B	10184802	NELAP	LA
4440 - sec-Butylbenzene	EPA 8260B	10184802	NELAP	LA
4420 - tert-Butyl alcohol	EPA 8260B	10184802	NELAP	LA
4445 - tert-Butylbenzene	EPA 8260B	10184802	NELAP	LA
4700 - trans-1,2-Dichloroethylene	EPA 8260B	10184802	NELAP	LA
4685 - trans-1,3-Dichloropropylene	EPA 8260B	10184802	NELAP	LA
6715 - 1,2,4,5-Tetrachlorobenzene	EPA 8270C	10185805	NELAP	LA
7315 - Coumaphos	EPA 8270C	10185805	NELAP	LA
8610 - Dichlorovos (DDVP, Dichlorvos)	EPA 8270C	10185805	NELAP	LA
7600 - Fensulfothion	EPA 8270C	10185805	NELAP	LA
7755 - Leptophos	EPA 8270C	10185805	NELAP	LA
6375 - Methyl methanesulfonate	EPA 8270C	10185805	NELAP	LA
7880 - Monocrotophos	EPA 8270C	10185805	NELAP	LA
6620 - Phenobarbital	EPA 8270C	10185805	NELAP	LA
6715 - 1,2,4,5-Tetrachlorobenzene	EPA 8270D	10186002	NELAP	LA
5155 - 1,2,4-Trichlorobenzene	EPA 8270D	10186002	NELAP	LA
4610 - 1,2-Dichlorobenzene	EPA 8270D	10186002	NELAP	LA
6155 - 1,2-Dinitrobenzene	EPA 8270D	10186002	NELAP	LA
6220 - 1,2-Diphenylhydrazine	EPA 8270D	10186002	NELAP	LA
4615 - 1,3-Dichlorobenzene	EPA 8270D	10186002	NELAP	LA
4620 - 1,4-Dichlorobenzene	EPA 8270D	10186002	NELAP	LA
6420 - 1,4-Naphthoquinone	EPA 8270D	10186002	NELAP	LA
5790 - 1-Chloronaphthalene	EPA 8270D	10186002	NELAP	LA

Waypoint Analytical LLC

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AI Number: 86553

Activity No.: ACC20200002

Expiration Date: June 30, 2021

## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
6735 - 2,3,4,6-Tetrachlorophenol	EPA 8270D	10186002	NELAP	LA
6835 - 2,4,5-Trichlorophenol	EPA 8270D	10186002	NELAP	LA
6840 - 2,4,6-Trichlorophenol	EPA 8270D	10186002	NELAP	LA
6000 - 2,4-Dichlorophenol	EPA 8270D	10186002	NELAP	LA
6130 - 2,4-Dimethylphenol	EPA 8270D	10186002	NELAP	LA
6175 - 2,4-Dinitrophenol	EPA 8270D	10186002	NELAP	LA
6185 - 2,4-Dinitrotoluene (2,4-DNT)	EPA 8270D	10186002	NELAP	LA
6005 - 2,6-Dichlorophenol	EPA 8270D	10186002	NELAP	LA
6190 - 2,6-Dinitrotoluene (2,6-DNT)	EPA 8270D	10186002	NELAP	LA
5795 - 2-Chloronaphthalene	EPA 8270D	10186002	NELAP	LA
5800 - 2-Chlorophenol	EPA 8270D	10186002	NELAP	LA
6360 - 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270D	10186002	NELAP	LA
6385 - 2-Methylnaphthalene	EPA 8270D	10186002	NELAP	LA
6400 - 2-Methylphenol (o-Cresol)	EPA 8270D	10186002	NELAP	LA
6460 - 2-Nitroaniline	EPA 8270D	10186002	NELAP	LA
6490 - 2-Nitrophenol	EPA 8270D	10186002	NELAP	LA
5945 - 3,3'-Dichlorobenzidine	EPA 8270D	10186002	NELAP	LA
6120 - 3,3'-Dimethylbenzidine	EPA 8270D	10186002	NELAP	LA
6405 - 3-Methylphenol (m-Cresol)	EPA 8270D	10186002	NELAP	LA
6465 - 3-Nitroaniline	EPA 8270D	10186002	NELAP	LA
5660 - 4-Bromophenyl phenyl ether	EPA 8270D	10186002	NELAP	LA
5700 - 4-Chloro-3-methylphenol	EPA 8270D	10186002	NELAP	LA
5745 - 4-Chloroaniline	EPA 8270D	10186002	NELAP	LA
5825 - 4-Chlorophenyl phenylether	EPA 8270D	10186002	NELAP	LA
6410 - 4-Methylphenol (p-Cresol)	EPA 8270D	10186002	NELAP	LA
6470 - 4-Nitroaniline	EPA 8270D	10186002	NELAP	LA
6500 - 4-Nitrophenol	EPA 8270D	10186002	NELAP	LA
5500 - Acenaphthene	EPA 8270D	10186002	NELAP	LA
5505 - Acenaphthylene	EPA 8270D	10186002	NELAP	LA
5510 - Acetophenone	EPA 8270D	10186002	NELAP	LA
5545 - Aniline	EPA 8270D	10186002	NELAP	LA
5555 - Anthracene	EPA 8270D	10186002	NELAP	LA
5560 - Aramite	EPA 8270D	10186002	NELAP	LA
5575 - Benz(a)anthracene	EPA 8270D	10186002	NELAP	LA
5595 - Benzidine	EPA 8270D	10186002	NELAP	LA
5580 - Benzo(a)pyrene	EPA 8270D	10186002	NELAP	LA
5585 - Benzo(b)fluoranthene	EPA 8270D	10186002	NELAP	LA
5590 - Benzo(g,h,i)perylene	EPA 8270D	10186002	NELAP	LA
5600 - Benzo(k)fluoranthene	EPA 8270D	10186002	NELAP	LA
5610 - Benzoic acid	EPA 8270D	10186002	NELAP	LA
5630 - Benzyl alcohol	EPA 8270D	10186002	NELAP	LA
5780 - Bis(2-Chloroisopropyl) ether (2,2-oxybis(1-chloropropane))	EPA 8270D	10186002	NELAP	LA
5670 - Butyl benzyl phthalate	EPA 8270D	10186002	NELAP	LA
5680 - Carbazole	EPA 8270D	10186002	NELAP	LA
7260 - Chlorobenzilate	EPA 8270D	10186002	NELAP	LA
5855 - Chrysene	EPA 8270D	10186002	NELAP	LA
6065 - Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270D	10186002	NELAP	LA
5925 - Di-n-butyl phthalate	EPA 8270D	10186002	NELAP	LA
6200 - Di-n-octyl phthalate	EPA 8270D	10186002	NELAP	LA
5895 - Dibenz(a,h)anthracene	EPA 8270D	10186002	NELAP	LA
5905 - Dibenzofuran	EPA 8270D	10186002	NELAP	LA
6070 - Diethyl phthalate	EPA 8270D	10186002	NELAP	LA

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## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
6135 - Dimethyl phthalate	EPA 8270D	10186002	NELAP	LA
6205 - Diphenylamine	EPA 8270D	10186002	NELAP	LA
7550 - EPN	EPA 8270D	10186002	NELAP	LA
6260 - Ethyl methanesulfonate	EPA 8270D	10186002	NELAP	LA
7580 - Famphur	EPA 8270D	10186002	NELAP	LA
6265 - Fluoranthene	EPA 8270D	10186002	NELAP	LA
6270 - Fluorene	EPA 8270D	10186002	NELAP	LA
6275 - Hexachlorobenzene	EPA 8270D	10186002	NELAP	LA
4835 - Hexachlorobutadiene	EPA 8270D	10186002	NELAP	LA
6285 - Hexachlorocyclopentadiene	EPA 8270D	10186002	NELAP	LA
4840 - Hexachloroethane	EPA 8270D	10186002	NELAP	LA
6315 - Indeno(1,2,3-cd)pyrene	EPA 8270D	10186002	NELAP	LA
6320 - Isophorone	EPA 8270D	10186002	NELAP	LA
7740 - Kepone	EPA 8270D	10186002	NELAP	LA
6375 - Methyl methanesulfonate	EPA 8270D	10186002	NELAP	LA
7905 - Naled	EPA 8270D	10186002	NELAP	LA
5005 - Naphthalene	EPA 8270D	10186002	NELAP	LA
5015 - Nitrobenzene	EPA 8270D	10186002	NELAP	LA
6590 - Pentachlorobenzene	EPA 8270D	10186002	NELAP	LA
6600 - Pentachloronitrobenzene	EPA 8270D	10186002	NELAP	LA
6605 - Pentachlorophenol	EPA 8270D	10186002	NELAP	LA
6610 - Phenacetin	EPA 8270D	10186002	NELAP	LA
6615 - Phenanthrene	EPA 8270D	10186002	NELAP	LA
6620 - Phenobarbital	EPA 8270D	10186002	NELAP	LA
6625 - Phenol	EPA 8270D	10186002	NELAP	LA
7985 - Phorate	EPA 8270D	10186002	NELAP	LA
6665 - Pyrene	EPA 8270D	10186002	NELAP	LA
5095 - Pyridine	EPA 8270D	10186002	NELAP	LA
6680 - Resorcinol	EPA 8270D	10186002	NELAP	LA
8295 - Trifluralin (Treflan)	EPA 8270D	10186002	NELAP	LA
5760 - bis(2-Chloroethoxy)methane	EPA 8270D	10186002	NELAP	LA
5765 - bis(2-Chloroethyl) ether	EPA 8270D	10186002	NELAP	LA
5025 - n-Nitroso-di-n-butylamine	EPA 8270D	10186002	NELAP	LA
6545 - n-Nitrosodi-n-propylamine	EPA 8270D	10186002	NELAP	LA
6525 - n-Nitrosodiethylamine	EPA 8270D	10186002	NELAP	LA
6530 - n-Nitrosodimethylamine	EPA 8270D	10186002	NELAP	LA
6535 - n-Nitrosodiphenylamine	EPA 8270D	10186002	NELAP	LA
4300 - Acetaldehyde	EPA 8315A	10188008	NELAP	LA
4815 - Formaldehyde	EPA 8315A	10188008	NELAP	LA
1923 - Reactive Cyanide	EPA 9014	10193803	NELAP	LA
1540 - Bromide	EPA 9056A	10199607	NELAP	LA
1575 - Chloride	EPA 9056A	10199607	NELAP	LA
1730 - Fluoride	EPA 9056A	10199607	NELAP	LA
1805 - Nitrate	EPA 9056A	10199607	NELAP	LA
1810 - Nitrate as N	EPA 9056A	10199607	NELAP	LA
1820 - Nitrate-Nitrite	EPA 9056A	10199607	NELAP	LA
1840 - Nitrite as N	EPA 9056A	10199607	NELAP	LA
2000 - Sulfate	EPA 9056A	10199607	NELAP	LA
1825 - Total Nitrate+Nitrite	EPA 9056A	10199607	NELAP	LA
3460 - LC50 Survival	EPA 2000.0 - Fathead Minnow, 48-hr Acute, nonrenewal, 20% DMW 25°C	10213419	NELAP	LA
3470 - IC25 (ON) Growth	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, 20% DMW 25°C	10214003	NELAP	LA
3475 - NOEC (ON) Growth	EPA 1000.0 - Fathead minnow, 7-day	10214003	NELAP	LA

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# Non Potable Water

Analyte	Method Name	Method Code	Type	AB
	Chronic, daily renewal, 20% DMW 25°C			
3465 - NOEC Survival	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, 20% DMW 25°C	10214003	NELAP	LA
	Chronic, daily renewal, 20% DMW 25°C			
3460 - LC50 Survival	EPA 2002 Ceriodaphnia dubia Acute 20% DMW 25°C	10214901	NELAP	LA
	Chronic, daily renewal, 20% DMW 25°C			
3480 - IC25 Reproduction	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, 20% DMW 25°C	10215200	NELAP	LA
	Chronic, daily renewal, 20% DMW 25°C			
3485 - NOEC Reproduction	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, 20% DMW 25°C	10215200	NELAP	LA
	Chronic, daily renewal, 20% DMW 25°C			
3465 - NOEC Survival	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, 20% DMW 25°C	10215200	NELAP	LA
	Chronic, daily renewal, 20% DMW 25°C			
3460 - LC50 Survival	EPA 2021 Daphnia pulex Acute	10215608	NELAP	LA
5235 - Vinyl chloride	EPA Method 107	10234250	NELAP	LA
1865 - Organic nitrogen	EPA 351.2 minus EPA 350.1	10238207	NELAP	LA
6380 - 1-Methylnaphthalene	EPA 8270C SIM	10242407	NELAP	LA
6385 - 2-Methylnaphthalene	EPA 8270C SIM	10242407	NELAP	LA
5500 - Acenaphthene	EPA 8270C SIM	10242407	NELAP	LA
5505 - Acenaphthylene	EPA 8270C SIM	10242407	NELAP	LA
5555 - Anthracene	EPA 8270C SIM	10242407	NELAP	LA
5575 - Benz(a)anthracene	EPA 8270C SIM	10242407	NELAP	LA
5580 - Benzo(a)pyrene	EPA 8270C SIM	10242407	NELAP	LA
5585 - Benzo(b)fluoranthene	EPA 8270C SIM	10242407	NELAP	LA
5590 - Benzo(g,h,i)perylene	EPA 8270C SIM	10242407	NELAP	LA
5600 - Benzo(k)fluoranthene	EPA 8270C SIM	10242407	NELAP	LA
5855 - Chrysene	EPA 8270C SIM	10242407	NELAP	LA
5895 - Dibenzo(a,h)anthracene	EPA 8270C SIM	10242407	NELAP	LA
6265 - Fluoranthene	EPA 8270C SIM	10242407	NELAP	LA
6270 - Fluorene	EPA 8270C SIM	10242407	NELAP	LA
6315 - Indeno(1,2,3-cd)pyrene	EPA 8270C SIM	10242407	NELAP	LA
5005 - Naphthalene	EPA 8270C SIM	10242407	NELAP	LA
6615 - Phenanthrene	EPA 8270C SIM	10242407	NELAP	LA
6665 - Pyrene	EPA 8270C SIM	10242407	NELAP	LA
6380 - 1-Methylnaphthalene	EPA 8270D SIM	10242509	NELAP	LA
6385 - 2-Methylnaphthalene	EPA 8270D SIM	10242509	NELAP	LA
5500 - Acenaphthene	EPA 8270D SIM	10242509	NELAP	LA
5505 - Acenaphthylene	EPA 8270D SIM	10242509	NELAP	LA
5555 - Anthracene	EPA 8270D SIM	10242509	NELAP	LA
5575 - Benz(a)anthracene	EPA 8270D SIM	10242509	NELAP	LA
5580 - Benzo(a)pyrene	EPA 8270D SIM	10242509	NELAP	LA
5585 - Benzo(b)fluoranthene	EPA 8270D SIM	10242509	NELAP	LA
5590 - Benzo(g,h,i)perylene	EPA 8270D SIM	10242509	NELAP	LA
5600 - Benzo(k)fluoranthene	EPA 8270D SIM	10242509	NELAP	LA
5855 - Chrysene	EPA 8270D SIM	10242509	NELAP	LA
5895 - Dibenzo(a,h)anthracene	EPA 8270D SIM	10242509	NELAP	LA
6265 - Fluoranthene	EPA 8270D SIM	10242509	NELAP	LA
6270 - Fluorene	EPA 8270D SIM	10242509	NELAP	LA
6315 - Indeno(1,2,3-cd)pyrene	EPA 8270D SIM	10242509	NELAP	LA
5005 - Naphthalene	EPA 8270D SIM	10242509	NELAP	LA
6615 - Phenanthrene	EPA 8270D SIM	10242509	NELAP	LA
6665 - Pyrene	EPA 8270D SIM	10242509	NELAP	LA

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## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
1860 - Oil & Grease	EPA 1664B (SGT-HEM)	10260628	NELAP	LA
2050 - Total Petroleum Hydrocarbons (TPH)	EPA 1664B (SGT-HEM)	10260628	NELAP	LA
1860 - Oil & Grease	EPA 1664A (SGT-HEM)	10261606	NELAP	LA
1860 - Oil & Grease	EPA 1664B	10261617	NELAP	LA
2050 - Total Petroleum Hydrocarbons (TPH)	EPA 1664B	10261617	NELAP	LA
1429 - Microextraction of Organics in Water	EPA 3511	10279808	NELAP	LA
1429 - Microextraction of Organics in Water	EPA 3511	10279819	NELAP	LA
7355 - 4,4'-DDD	EPA 608.3	10296614	NELAP	LA
7360 - 4,4'-DDE	EPA 608.3	10296614	NELAP	LA
7365 - 4,4'-DDT	EPA 608.3	10296614	NELAP	LA
7005 - Alachlor	EPA 608.3	10296614	NELAP	LA
7025 - Aldrin	EPA 608.3	10296614	NELAP	LA
8880 - Aroclor-1016 (PCB-1016)	EPA 608.3	10296614	NELAP	LA
8885 - Aroclor-1221 (PCB-1221)	EPA 608.3	10296614	NELAP	LA
8890 - Aroclor-1232 (PCB-1232)	EPA 608.3	10296614	NELAP	LA
8895 - Aroclor-1242 (PCB-1242)	EPA 608.3	10296614	NELAP	LA
8900 - Aroclor-1248 (PCB-1248)	EPA 608.3	10296614	NELAP	LA
8905 - Aroclor-1254 (PCB-1254)	EPA 608.3	10296614	NELAP	LA
8910 - Aroclor-1260 (PCB-1260)	EPA 608.3	10296614	NELAP	LA
7160 - Butachlor	EPA 608.3	10296614	NELAP	LA
7250 - Chlordane (tech.)	EPA 608.3	10296614	NELAP	LA
7260 - Chlorobenzilate	EPA 608.3	10296614	NELAP	LA
7265 - Chloroneb	EPA 608.3	10296614	NELAP	LA
7310 - Chlorothalonil (Daconil)	EPA 608.3	10296614	NELAP	LA
7300 - Chlorpyrifos	EPA 608.3	10296614	NELAP	LA
8550 - Dacthal (DCPA)	EPA 608.3	10296614	NELAP	LA
7470 - Dieldrin	EPA 608.3	10296614	NELAP	LA
7510 - Endosulfan I	EPA 608.3	10296614	NELAP	LA
7515 - Endosulfan II	EPA 608.3	10296614	NELAP	LA
7520 - Endosulfan sulfate	EPA 608.3	10296614	NELAP	LA
7540 - Endrin	EPA 608.3	10296614	NELAP	LA
7530 - Endrin aldehyde	EPA 608.3	10296614	NELAP	LA
7535 - Endrin ketone	EPA 608.3	10296614	NELAP	LA
7685 - Heptachlor	EPA 608.3	10296614	NELAP	LA
7690 - Heptachlor epoxide	EPA 608.3	10296614	NELAP	LA
6275 - Hexachlorobenzene	EPA 608.3	10296614	NELAP	LA
7725 - Isodrin	EPA 608.3	10296614	NELAP	LA
7740 - Kepone	EPA 608.3	10296614	NELAP	LA
7810 - Methoxychlor	EPA 608.3	10296614	NELAP	LA
7870 - Mirex	EPA 608.3	10296614	NELAP	LA
7975 - Permethrin (total)	EPA 608.3	10296614	NELAP	LA
8045 - Propachlor (Ramrod)	EPA 608.3	10296614	NELAP	LA
8125 - Simazine	EPA 608.3	10296614	NELAP	LA
8250 - Toxaphene (Chlorinated camphene)	EPA 608.3	10296614	NELAP	LA
7110 - alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 608.3	10296614	NELAP	LA
7240 - alpha-Chlordane	EPA 608.3	10296614	NELAP	LA
7115 - beta-BHC (beta-Hexachlorocyclohexane)	EPA 608.3	10296614	NELAP	LA
7105 - delta-BHC	EPA 608.3	10296614	NELAP	LA
7120 - gamma-BHC (Lindane, gamma-	EPA 608.3	10296614	NELAP	LA

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# Non Potable Water

Analyte	Method Name	Method Code	Type	AB
Hexachlorocyclohexane)				
7245 - gamma-Chlordane	EPA 608.3	10296614	NELAP	LA
5105 - 1,1,1,2-Tetrachloroethane	EPA 624.1	10298121	NELAP	LA
5160 - 1,1,1-Trichloroethane	EPA 624.1	10298121	NELAP	LA
5110 - 1,1,2,2-Tetrachloroethane	EPA 624.1	10298121	NELAP	LA
5165 - 1,1,2-Trichloroethane	EPA 624.1	10298121	NELAP	LA
4630 - 1,1-Dichloroethane	EPA 624.1	10298121	NELAP	LA
4640 - 1,1-Dichloroethylene	EPA 624.1	10298121	NELAP	LA
4610 - 1,2-Dichlorobenzene	EPA 624.1	10298121	NELAP	LA
4635 - 1,2-Dichloroethane (Ethylene dichloride)	EPA 624.1	10298121	NELAP	LA
4655 - 1,2-Dichloropropane	EPA 624.1	10298121	NELAP	LA
4615 - 1,3-Dichlorobenzene	EPA 624.1	10298121	NELAP	LA
4620 - 1,4-Dichlorobenzene	EPA 624.1	10298121	NELAP	LA
4500 - 2-Chloroethyl vinyl ether	EPA 624.1	10298121	NELAP	LA
4320 - Acetonitrile	EPA 624.1	10298121	NELAP	LA
4325 - Acrolein (Propenal)	EPA 624.1	10298121	NELAP	LA
4340 - Acrylonitrile	EPA 624.1	10298121	NELAP	LA
4375 - Benzene	EPA 624.1	10298121	NELAP	LA
4395 - Bromodichloromethane	EPA 624.1	10298121	NELAP	LA
4400 - Bromoform	EPA 624.1	10298121	NELAP	LA
4455 - Carbon tetrachloride	EPA 624.1	10298121	NELAP	LA
4475 - Chlorobenzene	EPA 624.1	10298121	NELAP	LA
4575 - Chlorodibromomethane (dibromochloromethane)	EPA 624.1	10298121	NELAP	LA
4485 - Chloroethane (Ethyl chloride)	EPA 624.1	10298121	NELAP	LA
4505 - Chloroform	EPA 624.1	10298121	NELAP	LA
4765 - Ethylbenzene	EPA 624.1	10298121	NELAP	LA
4950 - Methyl bromide (Bromomethane)	EPA 624.1	10298121	NELAP	LA
4960 - Methyl chloride (Chloromethane)	EPA 624.1	10298121	NELAP	LA
5000 - Methyl tert-butyl ether (MTBE)	EPA 624.1	10298121	NELAP	LA
4975 - Methylene chloride (Dichloromethane)	EPA 624.1	10298121	NELAP	LA
5115 - Tetrachloroethylene (Perchloroethylene)	EPA 624.1	10298121	NELAP	LA
5140 - Toluene	EPA 624.1	10298121	NELAP	LA
5170 - Trichloroethene (Trichloroethylene)	EPA 624.1	10298121	NELAP	LA
5175 - Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 624.1	10298121	NELAP	LA
5235 - Vinyl chloride	EPA 624.1	10298121	NELAP	LA
5260 - Xylene (total)	EPA 624.1	10298121	NELAP	LA
4645 - cis-1,2-Dichloroethylene	EPA 624.1	10298121	NELAP	LA
4680 - cis-1,3-Dichloropropene	EPA 624.1	10298121	NELAP	LA
4700 - trans-1,2-Dichloroethylene	EPA 624.1	10298121	NELAP	LA
4685 - trans-1,3-Dichloropropylene	EPA 624.1	10298121	NELAP	LA
5155 - 1,2,4-Trichlorobenzene	EPA 625.1	10300024	NELAP	LA
4610 - 1,2-Dichlorobenzene	EPA 625.1	10300024	NELAP	LA
4615 - 1,3-Dichlorobenzene	EPA 625.1	10300024	NELAP	LA
4620 - 1,4-Dichlorobenzene	EPA 625.1	10300024	NELAP	LA
4659 - 2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether (bis(2-chloroisopropyl)ether)	EPA 625.1	10300024	NELAP	LA
6735 - 2,3,4,6-Tetrachlorophenol	EPA 625.1	10300024	NELAP	LA
6835 - 2,4,5-Trichlorophenol	EPA 625.1	10300024	NELAP	LA
6840 - 2,4,6-Trichlorophenol	EPA 625.1	10300024	NELAP	LA

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Analyte	Method Name	Method Code	Type	AB
6000 - 2,4-Dichlorophenol	EPA 625.1	10300024	NELAP	LA
6130 - 2,4-Dimethylphenol	EPA 625.1	10300024	NELAP	LA
6175 - 2,4-Dinitrophenol	EPA 625.1	10300024	NELAP	LA
6185 - 2,4-Dinitrotoluene (2,4-DNT)	EPA 625.1	10300024	NELAP	LA
6005 - 2,6-Dichlorophenol	EPA 625.1	10300024	NELAP	LA
6190 - 2,6-Dinitrotoluene (2,6-DNT)	EPA 625.1	10300024	NELAP	LA
5795 - 2-Chloronaphthalene	EPA 625.1	10300024	NELAP	LA
5800 - 2-Chlorophenol	EPA 625.1	10300024	NELAP	LA
6360 - 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 625.1	10300024	NELAP	LA
6400 - 2-Methylphenol (o-Cresol)	EPA 625.1	10300024	NELAP	LA
6490 - 2-Nitrophenol	EPA 625.1	10300024	NELAP	LA
5945 - 3,3'-Dichlorobenzidine	EPA 625.1	10300024	NELAP	LA
5660 - 4-Bromophenyl phenyl ether	EPA 625.1	10300024	NELAP	LA
5700 - 4-Chloro-3-methylphenol	EPA 625.1	10300024	NELAP	LA
5825 - 4-Chlorophenyl phenylether	EPA 625.1	10300024	NELAP	LA
6410 - 4-Methylphenol (p-Cresol)	EPA 625.1	10300024	NELAP	LA
6500 - 4-Nitrophenol	EPA 625.1	10300024	NELAP	LA
5500 - Acenaphthene	EPA 625.1	10300024	NELAP	LA
5505 - Acenaphthylene	EPA 625.1	10300024	NELAP	LA
5555 - Anthracene	EPA 625.1	10300024	NELAP	LA
5575 - Benz(a)anthracene	EPA 625.1	10300024	NELAP	LA
5595 - Benzidine	EPA 625.1	10300024	NELAP	LA
5580 - Benzo(a)pyrene	EPA 625.1	10300024	NELAP	LA
5585 - Benzo(b)fluoranthene	EPA 625.1	10300024	NELAP	LA
5590 - Benzo(g,h,i)perylene	EPA 625.1	10300024	NELAP	LA
5600 - Benzo(k)fluoranthene	EPA 625.1	10300024	NELAP	LA
5670 - Butyl benzyl phthalate	EPA 625.1	10300024	NELAP	LA
5680 - Carbazole	EPA 625.1	10300024	NELAP	LA
5855 - Chrysene	EPA 625.1	10300024	NELAP	LA
6065 - Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 625.1	10300024	NELAP	LA
5925 - Di-n-butyl phthalate	EPA 625.1	10300024	NELAP	LA
6200 - Di-n-octyl phthalate	EPA 625.1	10300024	NELAP	LA
5895 - Dibenz(a,h)anthracene	EPA 625.1	10300024	NELAP	LA
6070 - Diethyl phthalate	EPA 625.1	10300024	NELAP	LA
6135 - Dimethyl phthalate	EPA 625.1	10300024	NELAP	LA
6265 - Fluoranthene	EPA 625.1	10300024	NELAP	LA
6270 - Fluorene	EPA 625.1	10300024	NELAP	LA
6275 - Hexachlorobenzene	EPA 625.1	10300024	NELAP	LA
4835 - Hexachlorobutadiene	EPA 625.1	10300024	NELAP	LA
6285 - Hexachlorocyclopentadiene	EPA 625.1	10300024	NELAP	LA
4840 - Hexachloroethane	EPA 625.1	10300024	NELAP	LA
6315 - Indeno(1,2,3-cd)pyrene	EPA 625.1	10300024	NELAP	LA
6320 - Isophorone	EPA 625.1	10300024	NELAP	LA
5005 - Naphthalene	EPA 625.1	10300024	NELAP	LA
5015 - Nitrobenzene	EPA 625.1	10300024	NELAP	LA
6605 - Pentachlorophenol	EPA 625.1	10300024	NELAP	LA
6615 - Phenanthrene	EPA 625.1	10300024	NELAP	LA
6625 - Phenol	EPA 625.1	10300024	NELAP	LA
6665 - Pyrene	EPA 625.1	10300024	NELAP	LA
5760 - bis(2-Chloroethoxy)methane	EPA 625.1	10300024	NELAP	LA
5765 - bis(2-Chloroethyl) ether	EPA 625.1	10300024	NELAP	LA
5875 - n-Decane	EPA 625.1	10300024	NELAP	LA
6545 - n-Nitrosodi-n-propylamine	EPA 625.1	10300024	NELAP	LA

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6530 - n-Nitrosodimethylamine	EPA 625.1	10300024	NELAP	LA
6535 - n-Nitrosodiphenylamine	EPA 625.1	10300024	NELAP	LA
6580 - n-Octadecane	EPA 625.1	10300024	NELAP	LA
1725 - Total, Fixed, and Volatile Residue	SM 2540 G, 18th ED	20005203	NELAP	LA
1950 - Residue-total	SM 2540 G-2011, Rev.22nd	20005270	NELAP	LA
1725 - Total, Fixed, and Volatile Residue	SM 2540 G-2011, Rev.22nd	20005270	NELAP	LA
2525 - Escherichia coli	SM 9223 B-2004	20037687	NELAP	LA
2500 - Total coliforms	SM 9223 B-2004	20037687	NELAP	LA
1605 - Color	SM 2120 B-2011	20039310	NELAP	LA
1500 - Acidity, as CaCO <sub>3</sub>	SM 2310 B-2011	20044615	NELAP	LA
1505 - Alkalinity as CaCO <sub>3</sub>	SM 2320 B-2011	20045618	NELAP	LA
1760 - Hardness (calc.)	SM 2340 B-2011	20046611	NELAP	LA
2055 - Turbidity	SM 2130 B-2011	20048220	NELAP	LA
1610 - Conductivity	SM 2510 B-2011	20048617	NELAP	LA
1950 - Residue-total	SM 2540 B-2011	20049416	NELAP	LA
1955 - Residue-filterable (TDS)	SM 2540 C-2011	20050413	NELAP	LA
1960 - Residue-nonfilterable (TSS)	SM 2540 D-2011	20051212	NELAP	LA
1970 - Residue-volatile	SM 2540 E-2011	20051596	NELAP	LA
1965 - Residue-settleable	SM 2540 F-2011	20052215	NELAP	LA
2030 - Temperature, deg. C	SM 2550 B-2000	20053218	NELAP	LA
1635 - Cyanide	SM 4500-CN <sup>-</sup> C-2011	20065663	NELAP	LA
1045 - Chromium VI	SM 3500-Cr B-2011	20066266	NELAP	LA
1940 - Total Residual Chlorine, low level	SM 4500-Cl G-2011	20081623	NELAP	LA
1940 - Total residual chlorine	SM 4500-Cl G-2011	20081623	NELAP	LA
1635 - Cyanide	SM 4500-CN <sup>-</sup> E-2011	20096428	NELAP	LA
1510 - Amenable cyanide	SM 4500-CN <sup>-</sup> G-2011	20097227	NELAP	LA
1635 - Cyanide	SM 4500-CN <sup>-</sup> G-2011	20097227	NELAP	LA
1900 - pH	SM 4500-H <sup>+</sup> B-2011	20105220	NELAP	LA
1515 - Ammonia as N	SM 4500-NH <sub>3</sub> B-2011	20106018	NELAP	LA
1795 - Kjeldahl nitrogen - total	SM 4500-NH <sub>3</sub> C-2011	20108412	NELAP	LA
3751 - Ammonia	SM 4500-NH <sub>3</sub> D-2011	20109415	NELAP	LA
1515 - Ammonia as N	SM 4500-NH <sub>3</sub> D-2011	20109415	NELAP	LA
1820 - Nitrate-Nitrite	SM 4500 NO <sub>3</sub> F-2011, Rev.22nd	20116410	NELAP	LA
1795 - Kjeldahl nitrogen - total	SM 4500-Norg B-2011	20119215	NELAP	LA
1795 - Kjeldahl nitrogen - total	SM 4500-Norg D-2011	20120289	NELAP	LA
1880 - Oxygen, dissolved	SM 4500-O G-2011	20121668	NELAP	LA
1910 - Total Phosphorus	SM 4500-P B 5-2011	20123368	NELAP	LA
1870 - Orthophosphate as P	SM 4500-P E-2011	20124225	NELAP	LA
1910 - Total Phosphorus	SM 4500-P E-2011	20124225	NELAP	LA
2005 - Sulfide	SM 4500-S <sub>2</sub> <sup>-</sup> F-2011	20126663	NELAP	LA
2005 - Sulfide	SM 4500-S <sub>2</sub> <sup>-</sup> G-2011	20127064	NELAP	LA
2015 - Sulfite-SO <sub>3</sub>	SM 4500-SO <sub>3</sub> <sup>-</sup> B-2011	20130636	NELAP	LA
1530 - Biochemical oxygen demand	SM 5210 B-2011	20135266	NELAP	LA
1555 - Carbonaceous BOD, CBOD	SM 5210 B-2011	20135266	NELAP	LA
1565 - Chemical oxygen demand	SM 5220 D-2011	20136816	NELAP	LA
2040 - Total Organic Carbon	SM 5310 C-2011	20138823	NELAP	LA
2025 - Surfactants - MBAS	SM 5540 C-2011	20145066	NELAP	LA
5105 - 1,1,1,2-Tetrachloroethane	SM 6200 B-2011	20147017	NELAP	LA
5160 - 1,1,1-Trichloroethane	SM 6200 B-2011	20147017	NELAP	LA
5110 - 1,1,2,2-Tetrachloroethane	SM 6200 B-2011	20147017	NELAP	LA
5165 - 1,1,2-Trichloroethane	SM 6200 B-2011	20147017	NELAP	LA
4630 - 1,1-Dichloroethane	SM 6200 B-2011	20147017	NELAP	LA
4640 - 1,1-Dichloroethylene	SM 6200 B-2011	20147017	NELAP	LA
4670 - 1,1-Dichloropropene	SM 6200 B-2011	20147017	NELAP	LA
5150 - 1,2,3-Trichlorobenzene	SM 6200 B-2011	20147017	NELAP	LA

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5180 - 1,2,3-Trichloropropane	SM 6200 B-2011	20147017	NELAP	LA
5155 - 1,2,4-Trichlorobenzene	SM 6200 B-2011	20147017	NELAP	LA
5210 - 1,2,4-Trimethylbenzene	SM 6200 B-2011	20147017	NELAP	LA
4585 - 1,2-Dibromoethane (EDB, Ethylene dibromide)	SM 6200 B-2011	20147017	NELAP	LA
4610 - 1,2-Dichlorobenzene	SM 6200 B-2011	20147017	NELAP	LA
4635 - 1,2-Dichloroethane (Ethylene dichloride)	SM 6200 B-2011	20147017	NELAP	LA
4655 - 1,2-Dichloropropane	SM 6200 B-2011	20147017	NELAP	LA
5215 - 1,3,5-Trimethylbenzene	SM 6200 B-2011	20147017	NELAP	LA
4615 - 1,3-Dichlorobenzene	SM 6200 B-2011	20147017	NELAP	LA
4660 - 1,3-Dichloropropane	SM 6200 B-2011	20147017	NELAP	LA
4620 - 1,4-Dichlorobenzene	SM 6200 B-2011	20147017	NELAP	LA
4665 - 2,2-Dichloropropane	SM 6200 B-2011	20147017	NELAP	LA
4410 - 2-Butanone (Methyl ethyl ketone, MEK)	SM 6200 B-2011	20147017	NELAP	LA
4535 - 2-Chlorotoluene	SM 6200 B-2011	20147017	NELAP	LA
4860 - 2-Hexanone	SM 6200 B-2011	20147017	NELAP	LA
4368 - 2-methyl-2-butanol (tert-Amyl alcohol)	SM 6200 B-2011	20147017	NELAP	LA
6103 - 3,3-dimethyl-1-butanol	SM 6200 B-2011	20147017	NELAP	LA
4540 - 4-Chlorotoluene	SM 6200 B-2011	20147017	NELAP	LA
4910 - 4-Isopropyltoluene (p-Cymene)	SM 6200 B-2011	20147017	NELAP	LA
4995 - 4-Methyl-2-pentanone (MIBK)	SM 6200 B-2011	20147017	NELAP	LA
4315 - Acetone	SM 6200 B-2011	20147017	NELAP	LA
4375 - Benzene	SM 6200 B-2011	20147017	NELAP	LA
4385 - Bromobenzene	SM 6200 B-2011	20147017	NELAP	LA
4390 - Bromochloromethane	SM 6200 B-2011	20147017	NELAP	LA
4395 - Bromodichloromethane	SM 6200 B-2011	20147017	NELAP	LA
4400 - Bromoform	SM 6200 B-2011	20147017	NELAP	LA
4455 - Carbon tetrachloride	SM 6200 B-2011	20147017	NELAP	LA
4475 - Chlorobenzene	SM 6200 B-2011	20147017	NELAP	LA
4575 - Chlorodibromomethane (dibromochloromethane)	SM 6200 B-2011	20147017	NELAP	LA
4485 - Chloroethane (Ethyl chloride)	SM 6200 B-2011	20147017	NELAP	LA
4505 - Chloroform	SM 6200 B-2011	20147017	NELAP	LA
9375 - Di-isopropylether (DIPE) (Isopropyl ether)	SM 6200 B-2011	20147017	NELAP	LA
4625 - Dichlorodifluoromethane (Freon-12)	SM 6200 B-2011	20147017	NELAP	LA
4750 - Ethanol	SM 6200 B-2011	20147017	NELAP	LA
4770 - Ethyl-t-butyl ether (ETBE) (2-Ethoxy-2-methylpropane)	SM 6200 B-2011	20147017	NELAP	LA
4765 - Ethylbenzene	SM 6200 B-2011	20147017	NELAP	LA
4900 - Isopropylbenzene (Cumene)	SM 6200 B-2011	20147017	NELAP	LA
4950 - Methyl bromide (Bromomethane)	SM 6200 B-2011	20147017	NELAP	LA
4960 - Methyl chloride (Chloromethane)	SM 6200 B-2011	20147017	NELAP	LA
5000 - Methyl tert-butyl ether (MTBE)	SM 6200 B-2011	20147017	NELAP	LA
4975 - Methylene chloride (Dichloromethane)	SM 6200 B-2011	20147017	NELAP	LA
5005 - Naphthalene	SM 6200 B-2011	20147017	NELAP	LA
5100 - Styrene	SM 6200 B-2011	20147017	NELAP	LA
4370 - T-amylmethylether (TAME)	SM 6200 B-2011	20147017	NELAP	LA
5115 - Tetrachloroethylene (Perchloroethylene)	SM 6200 B-2011	20147017	NELAP	LA
5140 - Toluene	SM 6200 B-2011	20147017	NELAP	LA

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Analyte	Method Name	Method Code	Type	AB
5170 - Trichloroethene (Trichloroethylene)	SM 6200 B-2011	20147017	NELAP	LA
5175 - Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	SM 6200 B-2011	20147017	NELAP	LA
5225 - Vinyl acetate	SM 6200 B-2011	20147017	NELAP	LA
5235 - Vinyl chloride	SM 6200 B-2011	20147017	NELAP	LA
5260 - Xylene (total)	SM 6200 B-2011	20147017	NELAP	LA
4645 - cis-1,2-Dichloroethylene	SM 6200 B-2011	20147017	NELAP	LA
4680 - cis-1,3-Dichloropropene	SM 6200 B-2011	20147017	NELAP	LA
5240 - m+p-xylene	SM 6200 B-2011	20147017	NELAP	LA
4435 - n-Butylbenzene	SM 6200 B-2011	20147017	NELAP	LA
5090 - n-Propylbenzene	SM 6200 B-2011	20147017	NELAP	LA
5250 - o-Xylene	SM 6200 B-2011	20147017	NELAP	LA
4440 - sec-Butylbenzene	SM 6200 B-2011	20147017	NELAP	LA
4420 - tert-Butyl alcohol	SM 6200 B-2011	20147017	NELAP	LA
9557 - tert-Butyl formate	SM 6200 B-2011	20147017	NELAP	LA
4445 - tert-Butylbenzene	SM 6200 B-2011	20147017	NELAP	LA
4700 - trans-1,2-Dichloroethylene	SM 6200 B-2011	20147017	NELAP	LA
4685 - trans-1,3-Dichloropropylene	SM 6200 B-2011	20147017	NELAP	LA
8655 - 2,4,5-T	SM 6640 B-2001	20155015	NELAP	LA
8545 - 2,4-D	SM 6640 B-2001	20155015	NELAP	LA
8560 - 2,4-DB	SM 6640 B-2001	20155015	NELAP	LA
8555 - Dalapon	SM 6640 B-2001	20155015	NELAP	LA
8595 - Dicamba	SM 6640 B-2001	20155015	NELAP	LA
8605 - Dichloroprop (Dichloroprop)	SM 6640 B-2001	20155015	NELAP	LA
8620 - Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	SM 6640 B-2001	20155015	NELAP	LA
7775 - MCPA	SM 6640 B-2001	20155015	NELAP	LA
7780 - MCPP	SM 6640 B-2001	20155015	NELAP	LA
6605 - Pentachlorophenol	SM 6640 B-2001	20155015	NELAP	LA
8645 - Picloram	SM 6640 B-2001	20155015	NELAP	LA
8650 - Silvex (2,4,5-TP)	SM 6640 B-2001	20155015	NELAP	LA
8655 - 2,4,5-T	SM 6640 B-2006	20155026	NELAP	LA
8545 - 2,4-D	SM 6640 B-2006	20155026	NELAP	LA
8650 - Silvex (2,4,5-TP)	SM 6640 B-2006	20155026	NELAP	LA
2530 - Fecal coliforms	IDEXX Colilert-18	60002688	NELAP	LA
6218 - EPH Aliphatic C19-C36	MADEP EPH, Rev.1.1	90017202	NELAP	LA
6222 - EPH Aliphatic C9-C18	MADEP EPH, Rev.1.1	90017202	NELAP	LA
6234 - EPH Aromatic C11-C22 Unadjusted	MADEP EPH, Rev.1.1	90017202	NELAP	LA
4375 - Benzene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
4765 - Ethylbenzene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5000 - Methyl tert-butyl ether (MTBE)	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5005 - Naphthalene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5140 - Toluene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5312 - VPH Aliphatic C6-C8	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5313 - VPH Aliphatic C8-C10	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5310 - VPH Aromatic >C8-C10	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5240 - m+p-xylene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5250 - o-Xylene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
4375 - Benzene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
4765 - Ethylbenzene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5000 - Methyl tert-butyl ether (MTBE)	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5005 - Naphthalene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5140 - Toluene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5312 - VPH Aliphatic C6-C8	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5313 - VPH Aliphatic C8-C10	MADEP VPH, Rev.2.1	90017451	NELAP	LA

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Analyte	Method Name	Method Code	Type	AB
5310 - VPH Aromatic >C8-C10	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5240 - m+p-xylene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5250 - o-Xylene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
2051 - Total Petroleum Hydrocarbons (>C12-C28)	TNRCC 1005, Rev.3	90019208	NELAP	LA
2052 - Total Petroleum Hydrocarbons (>C28-C35)	TNRCC 1005, Rev.3	90019208	NELAP	LA
9302 - Total Petroleum Hydrocarbons (C6-C12)	TNRCC 1005, Rev.3	90019208	NELAP	LA
9308 - Total Petroleum Hydrocarbons (C6-C35)	TNRCC 1005, Rev.3	90019208	NELAP	LA
2050 - Total Petroleum Hydrocarbons (TPH)	TNRCC 1005, Rev.3	90019208	NELAP	LA

## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
2050 - Total Petroleum Hydrocarbons (TPH)	Texas 1006	867	NELAP	LA
6117 - Flash Point	ASTM D93	2204	NELAP	LA
1923 - Reactive Cyanide	EPA 7.3.3.2	10001204	NELAP	LA
1925 - Reactive sulfide	EPA 7.3.4.2	10001408	NELAP	LA
1910 - Total Phosphorus	EPA 365.4	10071202	NELAP	LA
1780 - Ignitability	EPA 1010	10116606	NELAP	LA
1466 - Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311	10118806	NELAP	LA
1460 - Synthetic Precipitation Leaching Procedure	EPA 1312	10119003	NELAP	LA
1401 - Acid Digestion of waters for Total Recoverable or Dissolved Metals	EPA 3005A	10133207	NELAP	LA
1400 - Acid Digestion of Sediments, Sludges, and soils	EPA 3050B	10135601	NELAP	LA
1402 - Chromium VI Digestion	EPA 3060A	10136604	NELAP	LA
1444 - Separatory Funnel Liquid-liquid extraction	EPA 3510C	10138202	NELAP	LA
1448 - Solid-Phase Extraction (SPE)	EPA 3535A	10139409	NELAP	LA
1452 - Soxhlet Extraction	EPA 3540C	10140202	NELAP	LA
1428 - Microwave Extraction	EPA 3546	10141205	NELAP	LA
1468 - Ultrasonic Extraction	EPA 3550B	10141807	NELAP	LA
1468 - Ultrasonic Extraction	EPA 3550C	10142004	NELAP	LA
1470 - Waste Dilution	EPA 3580A	10143007	NELAP	LA
2020 - Sulfuric acid/permanganate clean-up	EPA 3665	10148604	NELAP	LA
5238 - Volatile Organic Compounds in Soils and Other Solid Matrices Using Equilibrium Headspace Analysis	EPA 5021	10152804	NELAP	LA
1406 - Purge and trap for aqueous phase samples	EPA 5030A	10153205	NELAP	LA
1406 - Purge and trap for aqueous phase samples	EPA 5030B	10153409	NELAP	LA
1450 - Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples	EPA 5035	10154004	NELAP	LA
1450 - Solid-phase Purge & Trap	EPA 5035	10154004	NELAP	LA
1408 - Bomb Preparation Method for Solid Waste	EPA 5050	10155007	NELAP	LA

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## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
1000 - Aluminum	EPA 6010B	10155609	NELAP	LA
1005 - Antimony	EPA 6010B	10155609	NELAP	LA
1010 - Arsenic	EPA 6010B	10155609	NELAP	LA
1015 - Barium	EPA 6010B	10155609	NELAP	LA
1020 - Beryllium	EPA 6010B	10155609	NELAP	LA
1025 - Boron	EPA 6010B	10155609	NELAP	LA
1030 - Cadmium	EPA 6010B	10155609	NELAP	LA
1035 - Calcium	EPA 6010B	10155609	NELAP	LA
1040 - Chromium	EPA 6010B	10155609	NELAP	LA
1050 - Cobalt	EPA 6010B	10155609	NELAP	LA
1055 - Copper	EPA 6010B	10155609	NELAP	LA
1070 - Iron	EPA 6010B	10155609	NELAP	LA
1075 - Lead	EPA 6010B	10155609	NELAP	LA
1085 - Magnesium	EPA 6010B	10155609	NELAP	LA
1090 - Manganese	EPA 6010B	10155609	NELAP	LA
1100 - Molybdenum	EPA 6010B	10155609	NELAP	LA
1105 - Nickel	EPA 6010B	10155609	NELAP	LA
1125 - Potassium	EPA 6010B	10155609	NELAP	LA
1140 - Selenium	EPA 6010B	10155609	NELAP	LA
1990 - Silica as SiO <sub>2</sub>	EPA 6010B	10155609	NELAP	LA
1150 - Silver	EPA 6010B	10155609	NELAP	LA
1155 - Sodium	EPA 6010B	10155609	NELAP	LA
1160 - Strontium	EPA 6010B	10155609	NELAP	LA
1165 - Thallium	EPA 6010B	10155609	NELAP	LA
1175 - Tin	EPA 6010B	10155609	NELAP	LA
1180 - Titanium	EPA 6010B	10155609	NELAP	LA
1910 - Total Phosphorus	EPA 6010B	10155609	NELAP	LA
1185 - Vanadium	EPA 6010B	10155609	NELAP	LA
1190 - Zinc	EPA 6010B	10155609	NELAP	LA
1000 - Aluminum	EPA 6010C	10155803	NELAP	LA
1005 - Antimony	EPA 6010C	10155803	NELAP	LA
1010 - Arsenic	EPA 6010C	10155803	NELAP	LA
1015 - Barium	EPA 6010C	10155803	NELAP	LA
1020 - Beryllium	EPA 6010C	10155803	NELAP	LA
1025 - Boron	EPA 6010C	10155803	NELAP	LA
1030 - Cadmium	EPA 6010C	10155803	NELAP	LA
1035 - Calcium	EPA 6010C	10155803	NELAP	LA
1040 - Chromium	EPA 6010C	10155803	NELAP	LA
1050 - Cobalt	EPA 6010C	10155803	NELAP	LA
1055 - Copper	EPA 6010C	10155803	NELAP	LA
1070 - Iron	EPA 6010C	10155803	NELAP	LA
1075 - Lead	EPA 6010C	10155803	NELAP	LA
1085 - Magnesium	EPA 6010C	10155803	NELAP	LA
1090 - Manganese	EPA 6010C	10155803	NELAP	LA
1100 - Molybdenum	EPA 6010C	10155803	NELAP	LA
1105 - Nickel	EPA 6010C	10155803	NELAP	LA
1125 - Potassium	EPA 6010C	10155803	NELAP	LA
1140 - Selenium	EPA 6010C	10155803	NELAP	LA
1990 - Silica as SiO <sub>2</sub>	EPA 6010C	10155803	NELAP	LA
1150 - Silver	EPA 6010C	10155803	NELAP	LA
1155 - Sodium	EPA 6010C	10155803	NELAP	LA
1160 - Strontium	EPA 6010C	10155803	NELAP	LA
1165 - Thallium	EPA 6010C	10155803	NELAP	LA
1175 - Tin	EPA 6010C	10155803	NELAP	LA
1180 - Titanium	EPA 6010C	10155803	NELAP	LA

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## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
1910 - Total Phosphorus	EPA 6010C	10155803	NELAP	LA
1185 - Vanadium	EPA 6010C	10155803	NELAP	LA
1190 - Zinc	EPA 6010C	10155803	NELAP	LA
1000 - Aluminum	EPA 6010D	10155916	NELAP	LA
1005 - Antimony	EPA 6010D	10155916	NELAP	LA
1010 - Arsenic	EPA 6010D	10155916	NELAP	LA
1015 - Barium	EPA 6010D	10155916	NELAP	LA
1020 - Beryllium	EPA 6010D	10155916	NELAP	LA
1025 - Boron	EPA 6010D	10155916	NELAP	LA
1030 - Cadmium	EPA 6010D	10155916	NELAP	LA
1035 - Calcium	EPA 6010D	10155916	NELAP	LA
1040 - Chromium	EPA 6010D	10155916	NELAP	LA
1050 - Cobalt	EPA 6010D	10155916	NELAP	LA
1055 - Copper	EPA 6010D	10155916	NELAP	LA
1070 - Iron	EPA 6010D	10155916	NELAP	LA
1075 - Lead	EPA 6010D	10155916	NELAP	LA
1085 - Magnesium	EPA 6010D	10155916	NELAP	LA
1090 - Manganese	EPA 6010D	10155916	NELAP	LA
1100 - Molybdenum	EPA 6010D	10155916	NELAP	LA
1105 - Nickel	EPA 6010D	10155916	NELAP	LA
1125 - Potassium	EPA 6010D	10155916	NELAP	LA
1140 - Selenium	EPA 6010D	10155916	NELAP	LA
1150 - Silver	EPA 6010D	10155916	NELAP	LA
1155 - Sodium	EPA 6010D	10155916	NELAP	LA
1160 - Strontium	EPA 6010D	10155916	NELAP	LA
1165 - Thallium	EPA 6010D	10155916	NELAP	LA
1175 - Tin	EPA 6010D	10155916	NELAP	LA
1180 - Titanium	EPA 6010D	10155916	NELAP	LA
1910 - Total Phosphorus	EPA 6010D	10155916	NELAP	LA
1185 - Vanadium	EPA 6010D	10155916	NELAP	LA
1190 - Zinc	EPA 6010D	10155916	NELAP	LA
1000 - Aluminum	EPA 6020	10156000	NELAP	LA
1005 - Antimony	EPA 6020	10156000	NELAP	LA
1010 - Arsenic	EPA 6020	10156000	NELAP	LA
1015 - Barium	EPA 6020	10156000	NELAP	LA
1020 - Beryllium	EPA 6020	10156000	NELAP	LA
1025 - Boron	EPA 6020	10156000	NELAP	LA
1030 - Cadmium	EPA 6020	10156000	NELAP	LA
1035 - Calcium	EPA 6020	10156000	NELAP	LA
1040 - Chromium	EPA 6020	10156000	NELAP	LA
1050 - Cobalt	EPA 6020	10156000	NELAP	LA
1055 - Copper	EPA 6020	10156000	NELAP	LA
1070 - Iron	EPA 6020	10156000	NELAP	LA
1075 - Lead	EPA 6020	10156000	NELAP	LA
1085 - Magnesium	EPA 6020	10156000	NELAP	LA
1090 - Manganese	EPA 6020	10156000	NELAP	LA
1100 - Molybdenum	EPA 6020	10156000	NELAP	LA
1105 - Nickel	EPA 6020	10156000	NELAP	LA
1125 - Potassium	EPA 6020	10156000	NELAP	LA
1140 - Selenium	EPA 6020	10156000	NELAP	LA
1150 - Silver	EPA 6020	10156000	NELAP	LA
1155 - Sodium	EPA 6020	10156000	NELAP	LA
1160 - Strontium	EPA 6020	10156000	NELAP	LA
1165 - Thallium	EPA 6020	10156000	NELAP	LA
1175 - Tin	EPA 6020	10156000	NELAP	LA

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## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
1180 - Titanium	EPA 6020	10156000	NELAP	LA
1910 - Total Phosphorus	EPA 6020	10156000	NELAP	LA
1185 - Vanadium	EPA 6020	10156000	NELAP	LA
1190 - Zinc	EPA 6020	10156000	NELAP	LA
1000 - Aluminum	EPA 6020A	10156408	NELAP	LA
1005 - Antimony	EPA 6020A	10156408	NELAP	LA
1010 - Arsenic	EPA 6020A	10156408	NELAP	LA
1015 - Barium	EPA 6020A	10156408	NELAP	LA
1020 - Beryllium	EPA 6020A	10156408	NELAP	LA
1025 - Boron	EPA 6020A	10156408	NELAP	LA
1030 - Cadmium	EPA 6020A	10156408	NELAP	LA
1035 - Calcium	EPA 6020A	10156408	NELAP	LA
1040 - Chromium	EPA 6020A	10156408	NELAP	LA
1050 - Cobalt	EPA 6020A	10156408	NELAP	LA
1055 - Copper	EPA 6020A	10156408	NELAP	LA
1070 - Iron	EPA 6020A	10156408	NELAP	LA
1075 - Lead	EPA 6020A	10156408	NELAP	LA
1085 - Magnesium	EPA 6020A	10156408	NELAP	LA
1090 - Manganese	EPA 6020A	10156408	NELAP	LA
1100 - Molybdenum	EPA 6020A	10156408	NELAP	LA
1105 - Nickel	EPA 6020A	10156408	NELAP	LA
1125 - Potassium	EPA 6020A	10156408	NELAP	LA
1140 - Selenium	EPA 6020A	10156408	NELAP	LA
1150 - Silver	EPA 6020A	10156408	NELAP	LA
1155 - Sodium	EPA 6020A	10156408	NELAP	LA
1160 - Strontium	EPA 6020A	10156408	NELAP	LA
1165 - Thallium	EPA 6020A	10156408	NELAP	LA
1175 - Tin	EPA 6020A	10156408	NELAP	LA
1180 - Titanium	EPA 6020A	10156408	NELAP	LA
1910 - Total Phosphorus	EPA 6020A	10156408	NELAP	LA
1185 - Vanadium	EPA 6020A	10156408	NELAP	LA
1190 - Zinc	EPA 6020A	10156408	NELAP	LA
1000 - Aluminum	EPA 6020B	10156420	NELAP	LA
1005 - Antimony	EPA 6020B	10156420	NELAP	LA
1010 - Arsenic	EPA 6020B	10156420	NELAP	LA
1015 - Barium	EPA 6020B	10156420	NELAP	LA
1020 - Beryllium	EPA 6020B	10156420	NELAP	LA
1025 - Boron	EPA 6020B	10156420	NELAP	LA
1030 - Cadmium	EPA 6020B	10156420	NELAP	LA
1035 - Calcium	EPA 6020B	10156420	NELAP	LA
1040 - Chromium	EPA 6020B	10156420	NELAP	LA
1050 - Cobalt	EPA 6020B	10156420	NELAP	LA
1055 - Copper	EPA 6020B	10156420	NELAP	LA
1070 - Iron	EPA 6020B	10156420	NELAP	LA
1075 - Lead	EPA 6020B	10156420	NELAP	LA
1085 - Magnesium	EPA 6020B	10156420	NELAP	LA
1090 - Manganese	EPA 6020B	10156420	NELAP	LA
1100 - Molybdenum	EPA 6020B	10156420	NELAP	LA
1105 - Nickel	EPA 6020B	10156420	NELAP	LA
1125 - Potassium	EPA 6020B	10156420	NELAP	LA
1140 - Selenium	EPA 6020B	10156420	NELAP	LA
1150 - Silver	EPA 6020B	10156420	NELAP	LA
1155 - Sodium	EPA 6020B	10156420	NELAP	LA
1160 - Strontium	EPA 6020B	10156420	NELAP	LA
1165 - Thallium	EPA 6020B	10156420	NELAP	LA

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## Solid Chemical Materials

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1175 - Tin	EPA 6020B	10156420	NELAP	LA
1180 - Titanium	EPA 6020B	10156420	NELAP	LA
1910 - Total Phosphorus	EPA 6020B	10156420	NELAP	LA
1185 - Vanadium	EPA 6020B	10156420	NELAP	LA
1190 - Zinc	EPA 6020B	10156420	NELAP	LA
1045 - Chromium VI	EPA 7196A	10162400	NELAP	LA
1095 - Mercury	EPA 7470A	10165807	NELAP	LA
1095 - Mercury	EPA 7471A	10166208	NELAP	LA
1095 - Mercury	EPA 7471B, Rev.2	10166457	NELAP	LA
9369 - Diesel range organics (DRO)	EPA 8015B	10173601	NELAP	LA
9408 - Gasoline range organics (GRO)	EPA 8015B	10173601	NELAP	LA
9369 - Diesel range organics (DRO)	EPA 8015C	10173805	NELAP	LA
9408 - Gasoline range organics (GRO)	EPA 8015C	10173805	NELAP	LA
4720 - Diethylene glycol	EPA 8015C, Rev.3	10173816	NELAP	LA
4785 - Ethylene glycol	EPA 8015C, Rev.3	10173816	NELAP	LA
6657 - Propylene Glycol	EPA 8015C, Rev.3	10173816	NELAP	LA
9646 - Triethylene Glycol	EPA 8015C, Rev.3	10173816	NELAP	LA
7355 - 4,4'-DDD	EPA 8081A	10178606	NELAP	LA
7360 - 4,4'-DDE	EPA 8081A	10178606	NELAP	LA
7365 - 4,4'-DDT	EPA 8081A	10178606	NELAP	LA
7025 - Aldrin	EPA 8081A	10178606	NELAP	LA
7250 - Chlordane (tech.)	EPA 8081A	10178606	NELAP	LA
7260 - Chlorobenzilate	EPA 8081A	10178606	NELAP	LA
7470 - Dieldrin	EPA 8081A	10178606	NELAP	LA
7510 - Endosulfan I	EPA 8081A	10178606	NELAP	LA
7515 - Endosulfan II	EPA 8081A	10178606	NELAP	LA
7520 - Endosulfan sulfate	EPA 8081A	10178606	NELAP	LA
7540 - Endrin	EPA 8081A	10178606	NELAP	LA
7530 - Endrin aldehyde	EPA 8081A	10178606	NELAP	LA
7535 - Endrin ketone	EPA 8081A	10178606	NELAP	LA
7685 - Heptachlor	EPA 8081A	10178606	NELAP	LA
7690 - Heptachlor epoxide	EPA 8081A	10178606	NELAP	LA
6275 - Hexachlorobenzene	EPA 8081A	10178606	NELAP	LA
6285 - Hexachlorocyclopentadiene	EPA 8081A	10178606	NELAP	LA
7725 - Isodrin	EPA 8081A	10178606	NELAP	LA
7810 - Methoxychlor	EPA 8081A	10178606	NELAP	LA
7870 - Mirex	EPA 8081A	10178606	NELAP	LA
8250 - Toxaphene (Chlorinated camphene)	EPA 8081A	10178606	NELAP	LA
7110 - alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081A	10178606	NELAP	LA
7240 - alpha-Chlordane	EPA 8081A	10178606	NELAP	LA
7115 - beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081A	10178606	NELAP	LA
7105 - delta-BHC	EPA 8081A	10178606	NELAP	LA
7120 - gamma-BHC (Lindane, gamma-HexachlorocyclohexaneE)	EPA 8081A	10178606	NELAP	LA
7245 - gamma-Chlordane	EPA 8081A	10178606	NELAP	LA
7910 - trans-Nonachlor	EPA 8081A	10178606	NELAP	LA
7355 - 4,4'-DDD	EPA 8081B, Rev.2	10178811	NELAP	LA
7360 - 4,4'-DDE	EPA 8081B, Rev.2	10178811	NELAP	LA
7365 - 4,4'-DDT	EPA 8081B, Rev.2	10178811	NELAP	LA
7025 - Aldrin	EPA 8081B, Rev.2	10178811	NELAP	LA
7250 - Chlordane (tech.)	EPA 8081B, Rev.2	10178811	NELAP	LA
7260 - Chlorobenzilate	EPA 8081B, Rev.2	10178811	NELAP	LA
7470 - Dieldrin	EPA 8081B, Rev.2	10178811	NELAP	LA

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Analyte	Method Name	Method Code	Type	AB
7510 - Endosulfan I	EPA 8081B, Rev.2	10178811	NELAP	LA
7515 - Endosulfan II	EPA 8081B, Rev.2	10178811	NELAP	LA
7520 - Endosulfan sulfate	EPA 8081B, Rev.2	10178811	NELAP	LA
7540 - Endrin	EPA 8081B, Rev.2	10178811	NELAP	LA
7530 - Endrin aldehyde	EPA 8081B, Rev.2	10178811	NELAP	LA
7535 - Endrin ketone	EPA 8081B, Rev.2	10178811	NELAP	LA
7685 - Heptachlor	EPA 8081B, Rev.2	10178811	NELAP	LA
7690 - Heptachlor epoxide	EPA 8081B, Rev.2	10178811	NELAP	LA
6275 - Hexachlorobenzene	EPA 8081B, Rev.2	10178811	NELAP	LA
6285 - Hexachlorocyclopentadiene	EPA 8081B, Rev.2	10178811	NELAP	LA
7725 - Isodrin	EPA 8081B, Rev.2	10178811	NELAP	LA
7810 - Methoxychlor	EPA 8081B, Rev.2	10178811	NELAP	LA
7870 - Mirex	EPA 8081B, Rev.2	10178811	NELAP	LA
8250 - Toxaphene (Chlorinated camphene)	EPA 8081B, Rev.2	10178811	NELAP	LA
7110 - alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081B, Rev.2	10178811	NELAP	LA
7240 - alpha-Chlordane	EPA 8081B, Rev.2	10178811	NELAP	LA
7115 - beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081B, Rev.2	10178811	NELAP	LA
7105 - delta-BHC	EPA 8081B, Rev.2	10178811	NELAP	LA
7120 - gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081B, Rev.2	10178811	NELAP	LA
7245 - gamma-Chlordane	EPA 8081B, Rev.2	10178811	NELAP	LA
7910 - trans-Nonachlor	EPA 8081B, Rev.2	10178811	NELAP	LA
8880 - Aroclor-1016 (PCB-1016)	EPA 8082	10179007	NELAP	LA
8885 - Aroclor-1221 (PCB-1221)	EPA 8082	10179007	NELAP	LA
8890 - Aroclor-1232 (PCB-1232)	EPA 8082	10179007	NELAP	LA
8895 - Aroclor-1242 (PCB-1242)	EPA 8082	10179007	NELAP	LA
8900 - Aroclor-1248 (PCB-1248)	EPA 8082	10179007	NELAP	LA
8905 - Aroclor-1254 (PCB-1254)	EPA 8082	10179007	NELAP	LA
8910 - Aroclor-1260 (PCB-1260)	EPA 8082	10179007	NELAP	LA
8880 - Aroclor-1016 (PCB-1016)	EPA 8082A	10179201	NELAP	LA
100281 - Aroclor-1016 (PCB-1016) in Oil	EPA 8082A	10179201	NELAP	LA
8885 - Aroclor-1221 (PCB-1221)	EPA 8082A	10179201	NELAP	LA
100282 - Aroclor-1221 (PCB-1221) in Oil	EPA 8082A	10179201	NELAP	LA
8890 - Aroclor-1232 (PCB-1232)	EPA 8082A	10179201	NELAP	LA
100283 - Aroclor-1232 (PCB-1232) in Oil	EPA 8082A	10179201	NELAP	LA
8895 - Aroclor-1242 (PCB-1242)	EPA 8082A	10179201	NELAP	LA
100284 - Aroclor-1242 (PCB-1242) in Oil	EPA 8082A	10179201	NELAP	LA
8900 - Aroclor-1248 (PCB-1248)	EPA 8082A	10179201	NELAP	LA
100285 - Aroclor-1248 (PCB-1248) in Oil	EPA 8082A	10179201	NELAP	LA
8905 - Aroclor-1254 (PCB-1254)	EPA 8082A	10179201	NELAP	LA
100286 - Aroclor-1254 (PCB-1254) in Oil	EPA 8082A	10179201	NELAP	LA
8910 - Aroclor-1260 (PCB-1260)	EPA 8082A	10179201	NELAP	LA
100287 - Aroclor-1260 (PCB-1260) in Oil	EPA 8082A	10179201	NELAP	LA
8655 - 2,4,5-T	EPA 8151A	10183207	NELAP	LA
8545 - 2,4-D	EPA 8151A	10183207	NELAP	LA
8560 - 2,4-DB	EPA 8151A	10183207	NELAP	LA
8505 - Acifluorfen	EPA 8151A	10183207	NELAP	LA
8530 - Bentazon	EPA 8151A	10183207	NELAP	LA
8555 - Dalapon	EPA 8151A	10183207	NELAP	LA
8595 - Dicamba	EPA 8151A	10183207	NELAP	LA
8605 - Dichloroprop (Dichloroprop)	EPA 8151A	10183207	NELAP	LA
8620 - Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151A	10183207	NELAP	LA

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AI Number: 86553

Activity No.: ACC20200002

Expiration Date: June 30, 2021

## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
7775 - MCPA	EPA 8151A	10183207	NELAP	LA
7780 - MCPP	EPA 8151A	10183207	NELAP	LA
6605 - Pentachlorophenol	EPA 8151A	10183207	NELAP	LA
8645 - Picloram	EPA 8151A	10183207	NELAP	LA
8650 - Silvex (2,4,5-TP)	EPA 8151A	10183207	NELAP	LA
5105 - 1,1,1,2-Tetrachloroethane	EPA 8260B	10184802	NELAP	LA
5160 - 1,1,1-Trichloroethane	EPA 8260B	10184802	NELAP	LA
5110 - 1,1,2,2-Tetrachloroethane	EPA 8260B	10184802	NELAP	LA
5185 - 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260B	10184802	NELAP	LA
5195 - 1,1,2-Trichloro-2,2,2-trifluoroethane (Freon 113a)	EPA 8260B	10184802	NELAP	LA
5165 - 1,1,2-Trichloroethane	EPA 8260B	10184802	NELAP	LA
4630 - 1,1-Dichloroethane	EPA 8260B	10184802	NELAP	LA
4640 - 1,1-Dichloroethylene	EPA 8260B	10184802	NELAP	LA
4670 - 1,1-Dichloropropene	EPA 8260B	10184802	NELAP	LA
5150 - 1,2,3-Trichlorobenzene	EPA 8260B	10184802	NELAP	LA
5180 - 1,2,3-Trichloropropane	EPA 8260B	10184802	NELAP	LA
5155 - 1,2,4-Trichlorobenzene	EPA 8260B	10184802	NELAP	LA
5210 - 1,2,4-Trimethylbenzene	EPA 8260B	10184802	NELAP	LA
4570 - 1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260B	10184802	NELAP	LA
4585 - 1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260B	10184802	NELAP	LA
4610 - 1,2-Dichlorobenzene	EPA 8260B	10184802	NELAP	LA
4635 - 1,2-Dichloroethane (Ethylene dichloride)	EPA 8260B	10184802	NELAP	LA
4655 - 1,2-Dichloropropane	EPA 8260B	10184802	NELAP	LA
6800 - 1,3,5-Trichlorobenzene	EPA 8260B	10184802	NELAP	LA
5215 - 1,3,5-Trimethylbenzene	EPA 8260B	10184802	NELAP	LA
4615 - 1,3-Dichlorobenzene	EPA 8260B	10184802	NELAP	LA
4660 - 1,3-Dichloropropane	EPA 8260B	10184802	NELAP	LA
4620 - 1,4-Dichlorobenzene	EPA 8260B	10184802	NELAP	LA
4735 - 1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260B	10184802	NELAP	LA
4665 - 2,2-Dichloropropane	EPA 8260B	10184802	NELAP	LA
4410 - 2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260B	10184802	NELAP	LA
4490 - 2-Chloroethanol	EPA 8260B	10184802	NELAP	LA
4500 - 2-Chloroethyl vinyl ether	EPA 8260B	10184802	NELAP	LA
4535 - 2-Chlorotoluene	EPA 8260B	10184802	NELAP	LA
4860 - 2-Hexanone	EPA 8260B	10184802	NELAP	LA
5145 - 2-Methylaniline (o-Toluidine)	EPA 8260B	10184802	NELAP	LA
5020 - 2-Nitropropane	EPA 8260B	10184802	NELAP	LA
5045 - 2-Pentanone	EPA 8260B	10184802	NELAP	LA
5050 - 2-Picoline (2-Methylpyridine)	EPA 8260B	10184802	NELAP	LA
4530 - 3-Chloropropionitrile	EPA 8260B	10184802	NELAP	LA
4540 - 4-Chlorotoluene	EPA 8260B	10184802	NELAP	LA
4910 - 4-Isopropyltoluene (p-Cymene)	EPA 8260B	10184802	NELAP	LA
4995 - 4-Methyl-2-pentanone (MIBK)	EPA 8260B	10184802	NELAP	LA
4315 - Acetone	EPA 8260B	10184802	NELAP	LA
4320 - Acetonitrile	EPA 8260B	10184802	NELAP	LA
4325 - Acrolein (Propenal)	EPA 8260B	10184802	NELAP	LA
4340 - Acrylonitrile	EPA 8260B	10184802	NELAP	LA
4350 - Allyl alcohol	EPA 8260B	10184802	NELAP	LA
4355 - Allyl chloride (3-Chloropropene)	EPA 8260B	10184802	NELAP	LA

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## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
4375 - Benzene	EPA 8260B	10184802	NELAP	LA
4385 - Bromobenzene	EPA 8260B	10184802	NELAP	LA
4390 - Bromochloromethane	EPA 8260B	10184802	NELAP	LA
4395 - Bromodichloromethane	EPA 8260B	10184802	NELAP	LA
4400 - Bromoform	EPA 8260B	10184802	NELAP	LA
4450 - Carbon disulfide	EPA 8260B	10184802	NELAP	LA
4455 - Carbon tetrachloride	EPA 8260B	10184802	NELAP	LA
4460 - Chloral hydrate	EPA 8260B	10184802	NELAP	LA
4470 - Chloroacetonitrile	EPA 8260B	10184802	NELAP	LA
4475 - Chlorobenzene	EPA 8260B	10184802	NELAP	LA
4575 - Chlorodibromomethane (dibromochloromethane)	EPA 8260B	10184802	NELAP	LA
4485 - Chloroethane (Ethyl chloride)	EPA 8260B	10184802	NELAP	LA
4505 - Chloroform	EPA 8260B	10184802	NELAP	LA
4525 - Chloroprene (2-Chloro-1,3-butadiene)	EPA 8260B	10184802	NELAP	LA
4545 - Crotonaldehyde	EPA 8260B	10184802	NELAP	LA
4580 - Dibromochloropropane	EPA 8260B	10184802	NELAP	LA
4590 - Dibromofluoromethane	EPA 8260B	10184802	NELAP	LA
4595 - Dibromomethane (Methylene bromide)	EPA 8260B	10184802	NELAP	LA
4625 - Dichlorodifluoromethane (Freon-12)	EPA 8260B	10184802	NELAP	LA
4725 - Diethyl ether	EPA 8260B	10184802	NELAP	LA
4745 - Epichlorohydrin (1-Chloro-2,3-epoxypropane)	EPA 8260B	10184802	NELAP	LA
4750 - Ethanol	EPA 8260B	10184802	NELAP	LA
4755 - Ethyl acetate	EPA 8260B	10184802	NELAP	LA
4810 - Ethyl methacrylate	EPA 8260B	10184802	NELAP	LA
4765 - Ethylbenzene	EPA 8260B	10184802	NELAP	LA
4835 - Hexachlorobutadiene	EPA 8260B	10184802	NELAP	LA
4870 - Iodomethane (Methyl iodide)	EPA 8260B	10184802	NELAP	LA
4875 - Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260B	10184802	NELAP	LA
4895 - Isopropyl alcohol (2-Propanol, Isopropanol)	EPA 8260B	10184802	NELAP	LA
4900 - Isopropylbenzene (Cumene)	EPA 8260B	10184802	NELAP	LA
4925 - Methacrylonitrile	EPA 8260B	10184802	NELAP	LA
4950 - Methyl bromide (Bromomethane)	EPA 8260B	10184802	NELAP	LA
4960 - Methyl chloride (Chloromethane)	EPA 8260B	10184802	NELAP	LA
4990 - Methyl methacrylate	EPA 8260B	10184802	NELAP	LA
5000 - Methyl tert-butyl ether (MTBE)	EPA 8260B	10184802	NELAP	LA
4975 - Methylene chloride (Dichloromethane)	EPA 8260B	10184802	NELAP	LA
5005 - Naphthalene	EPA 8260B	10184802	NELAP	LA
5035 - Pentachloroethane	EPA 8260B	10184802	NELAP	LA
5040 - Pentafluorobenzene	EPA 8260B	10184802	NELAP	LA
5070 - Propargyl alcohol	EPA 8260B	10184802	NELAP	LA
5080 - Propionitrile (Ethyl cyanide)	EPA 8260B	10184802	NELAP	LA
5095 - Pyridine	EPA 8260B	10184802	NELAP	LA
5100 - Styrene	EPA 8260B	10184802	NELAP	LA
5115 - Tetrachloroethylene (Perchloroethylene)	EPA 8260B	10184802	NELAP	LA
5120 - Tetrahydrofuran (THF)	EPA 8260B	10184802	NELAP	LA
5140 - Toluene	EPA 8260B	10184802	NELAP	LA
5170 - Trichloroethene (Trichloroethylene)	EPA 8260B	10184802	NELAP	LA

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## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
5175 - Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260B	10184802	NELAP	LA
5225 - Vinyl acetate	EPA 8260B	10184802	NELAP	LA
5235 - Vinyl chloride	EPA 8260B	10184802	NELAP	LA
5260 - Xylene (total)	EPA 8260B	10184802	NELAP	LA
4645 - cis-1,2-Dichloroethylene	EPA 8260B	10184802	NELAP	LA
4680 - cis-1,3-Dichloropropene	EPA 8260B	10184802	NELAP	LA
4600 - cis-1,4-Dichloro-2-butene	EPA 8260B	10184802	NELAP	LA
5240 - m+p-xylene	EPA 8260B	10184802	NELAP	LA
5245 - m-Xylene	EPA 8260B	10184802	NELAP	LA
4425 - n-Butyl alcohol (1-Butanol, n-Butanol)	EPA 8260B	10184802	NELAP	LA
4435 - n-Butylbenzene	EPA 8260B	10184802	NELAP	LA
5085 - n-Propylamine	EPA 8260B	10184802	NELAP	LA
5090 - n-Propylbenzene	EPA 8260B	10184802	NELAP	LA
5250 - o-Xylene	EPA 8260B	10184802	NELAP	LA
5255 - p-Xylene	EPA 8260B	10184802	NELAP	LA
4440 - sec-Butylbenzene	EPA 8260B	10184802	NELAP	LA
4420 - tert-Butyl alcohol	EPA 8260B	10184802	NELAP	LA
4445 - tert-Butylbenzene	EPA 8260B	10184802	NELAP	LA
4700 - trans-1,2-Dichloroethylene	EPA 8260B	10184802	NELAP	LA
4685 - trans-1,3-Dichloropropylene	EPA 8260B	10184802	NELAP	LA
4605 - trans-1,4-Dichloro-2-butene	EPA 8260B	10184802	NELAP	LA
7755 - Leptophos	EPA 8270	10185203	NELAP	LA
6375 - Methyl methanesulfonate	EPA 8270	10185203	NELAP	LA
7850 - Mevinphos	EPA 8270	10185203	NELAP	LA
7880 - Monocrotophos	EPA 8270	10185203	NELAP	LA
6715 - 1,2,4,5-Tetrachlorobenzene	EPA 8270C	10185805	NELAP	LA
5155 - 1,2,4-Trichlorobenzene	EPA 8270C	10185805	NELAP	LA
4610 - 1,2-Dichlorobenzene	EPA 8270C	10185805	NELAP	LA
4635 - 1,2-Dichloroethane (Ethylene dichloride)	EPA 8270C	10185805	NELAP	LA
6155 - 1,2-Dinitrobenzene	EPA 8270C	10185805	NELAP	LA
6220 - 1,2-Diphenylhydrazine	EPA 8270C	10185805	NELAP	LA
4615 - 1,3-Dichlorobenzene	EPA 8270C	10185805	NELAP	LA
4620 - 1,4-Dichlorobenzene	EPA 8270C	10185805	NELAP	LA
6420 - 1,4-Naphthoquinone	EPA 8270C	10185805	NELAP	LA
5790 - 1-Chloronaphthalene	EPA 8270C	10185805	NELAP	LA
6735 - 2,3,4,6-Tetrachlorophenol	EPA 8270C	10185805	NELAP	LA
6835 - 2,4,5-Trichlorophenol	EPA 8270C	10185805	NELAP	LA
6840 - 2,4,6-Trichlorophenol	EPA 8270C	10185805	NELAP	LA
6000 - 2,4-Dichlorophenol	EPA 8270C	10185805	NELAP	LA
6130 - 2,4-Dimethylphenol	EPA 8270C	10185805	NELAP	LA
6175 - 2,4-Dinitrophenol	EPA 8270C	10185805	NELAP	LA
6185 - 2,4-Dinitrotoluene (2,4-DNT)	EPA 8270C	10185805	NELAP	LA
6005 - 2,6-Dichlorophenol	EPA 8270C	10185805	NELAP	LA
6190 - 2,6-Dinitrotoluene (2,6-DNT)	EPA 8270C	10185805	NELAP	LA
5795 - 2-Chloronaphthalene	EPA 8270C	10185805	NELAP	LA
5800 - 2-Chlorophenol	EPA 8270C	10185805	NELAP	LA
6360 - 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270C	10185805	NELAP	LA
6385 - 2-Methylnaphthalene	EPA 8270C	10185805	NELAP	LA
6400 - 2-Methylphenol (o-Cresol)	EPA 8270C	10185805	NELAP	LA
6460 - 2-Nitroaniline	EPA 8270C	10185805	NELAP	LA
6490 - 2-Nitrophenol	EPA 8270C	10185805	NELAP	LA

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## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
5945 - 3,3'-Dichlorobenzidine	EPA 8270C	10185805	NELAP	LA
6120 - 3,3'-Dimethylbenzidine	EPA 8270C	10185805	NELAP	LA
6405 - 3-Methylphenol (m-Cresol)	EPA 8270C	10185805	NELAP	LA
6465 - 3-Nitroaniline	EPA 8270C	10185805	NELAP	LA
5660 - 4-Bromophenyl phenyl ether	EPA 8270C	10185805	NELAP	LA
5700 - 4-Chloro-3-methylphenol	EPA 8270C	10185805	NELAP	LA
5745 - 4-Chloroaniline	EPA 8270C	10185805	NELAP	LA
5825 - 4-Chlorophenyl phenylether	EPA 8270C	10185805	NELAP	LA
6410 - 4-Methylphenol (p-Cresol)	EPA 8270C	10185805	NELAP	LA
6470 - 4-Nitroaniline	EPA 8270C	10185805	NELAP	LA
6500 - 4-Nitrophenol	EPA 8270C	10185805	NELAP	LA
6510 - 4-Nitroquinoline 1-oxide	EPA 8270C	10185805	NELAP	LA
5500 - Acenaphthene	EPA 8270C	10185805	NELAP	LA
5505 - Acenaphthylene	EPA 8270C	10185805	NELAP	LA
5510 - Acetophenone	EPA 8270C	10185805	NELAP	LA
5545 - Aniline	EPA 8270C	10185805	NELAP	LA
5555 - Anthracene	EPA 8270C	10185805	NELAP	LA
5560 - Aramite	EPA 8270C	10185805	NELAP	LA
7065 - Atrazine	EPA 8270C	10185805	NELAP	LA
7075 - Azinphos-methyl (Guthion)	EPA 8270C	10185805	NELAP	LA
5575 - Benz(a)anthracene	EPA 8270C	10185805	NELAP	LA
5595 - Benzidine	EPA 8270C	10185805	NELAP	LA
5580 - Benzo(a)pyrene	EPA 8270C	10185805	NELAP	LA
5585 - Benzo(b)fluoranthene	EPA 8270C	10185805	NELAP	LA
5590 - Benzo(g,h,i)perylene	EPA 8270C	10185805	NELAP	LA
5600 - Benzo(k)fluoranthene	EPA 8270C	10185805	NELAP	LA
5610 - Benzoic acid	EPA 8270C	10185805	NELAP	LA
5630 - Benzyl alcohol	EPA 8270C	10185805	NELAP	LA
5780 - Bis(2-Chloroisopropyl) ether (2,2-oxybis(1-chloropropane))	EPA 8270C	10185805	NELAP	LA
5670 - Butyl benzyl phthalate	EPA 8270C	10185805	NELAP	LA
5680 - Carbazole	EPA 8270C	10185805	NELAP	LA
7260 - Chlorobenzilate	EPA 8270C	10185805	NELAP	LA
7300 - Chlorpyrifos	EPA 8270C	10185805	NELAP	LA
5855 - Chrysene	EPA 8270C	10185805	NELAP	LA
7315 - Coumaphos	EPA 8270C	10185805	NELAP	LA
7390 - Demeton	EPA 8270C	10185805	NELAP	LA
7395 - Demeton-o	EPA 8270C	10185805	NELAP	LA
7385 - Demeton-s	EPA 8270C	10185805	NELAP	LA
6065 - Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270C	10185805	NELAP	LA
5925 - Di-n-butyl phthalate	EPA 8270C	10185805	NELAP	LA
6200 - Di-n-octyl phthalate	EPA 8270C	10185805	NELAP	LA
7410 - Diazinon	EPA 8270C	10185805	NELAP	LA
5895 - Dibenz(a,h)anthracene	EPA 8270C	10185805	NELAP	LA
5905 - Dibenzofuran	EPA 8270C	10185805	NELAP	LA
8610 - Dichlorovos (DDVP, Dichlorvos)	EPA 8270C	10185805	NELAP	LA
6070 - Diethyl phthalate	EPA 8270C	10185805	NELAP	LA
7475 - Dimethoate	EPA 8270C	10185805	NELAP	LA
6135 - Dimethyl phthalate	EPA 8270C	10185805	NELAP	LA
8620 - Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270C	10185805	NELAP	LA
7495 - Dioxathion	EPA 8270C	10185805	NELAP	LA
6205 - Diphenylamine	EPA 8270C	10185805	NELAP	LA
8625 - Disulfoton	EPA 8270C	10185805	NELAP	LA

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# Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
7550 - EPN	EPA 8270C	10185805	NELAP	LA
6260 - Ethyl methanesulfonate	EPA 8270C	10185805	NELAP	LA
7580 - Famphur	EPA 8270C	10185805	NELAP	LA
7600 - Fensulfothion	EPA 8270C	10185805	NELAP	LA
7605 - Fenthion	EPA 8270C	10185805	NELAP	LA
6265 - Fluoranthene	EPA 8270C	10185805	NELAP	LA
6270 - Fluorene	EPA 8270C	10185805	NELAP	LA
6275 - Hexachlorobenzene	EPA 8270C	10185805	NELAP	LA
4835 - Hexachlorobutadiene	EPA 8270C	10185805	NELAP	LA
6285 - Hexachlorocyclopentadiene	EPA 8270C	10185805	NELAP	LA
4840 - Hexachloroethane	EPA 8270C	10185805	NELAP	LA
6315 - Indeno(1,2,3-cd)pyrene	EPA 8270C	10185805	NELAP	LA
6320 - Isophorone	EPA 8270C	10185805	NELAP	LA
7740 - Kepone	EPA 8270C	10185805	NELAP	LA
7755 - Leptophos	EPA 8270C	10185805	NELAP	LA
7770 - Malathion	EPA 8270C	10185805	NELAP	LA
6335 - Maleic anhydride	EPA 8270C	10185805	NELAP	LA
6375 - Methyl methanesulfonate	EPA 8270C	10185805	NELAP	LA
7825 - Methyl parathion (Parathion, methyl)	EPA 8270C	10185805	NELAP	LA
7850 - Mevinphos	EPA 8270C	10185805	NELAP	LA
7880 - Monocrotophos	EPA 8270C	10185805	NELAP	LA
7905 - Naled	EPA 8270C	10185805	NELAP	LA
5005 - Naphthalene	EPA 8270C	10185805	NELAP	LA
5015 - Nitrobenzene	EPA 8270C	10185805	NELAP	LA
7955 - Parathion, ethyl	EPA 8270C	10185805	NELAP	LA
7960 - Pendimethalin(Penoxalin)	EPA 8270C	10185805	NELAP	LA
6590 - Pentachlorobenzene	EPA 8270C	10185805	NELAP	LA
6600 - Pentachloronitrobenzene	EPA 8270C	10185805	NELAP	LA
6605 - Pentachlorophenol	EPA 8270C	10185805	NELAP	LA
6610 - Phenacetin	EPA 8270C	10185805	NELAP	LA
6615 - Phenanthrene	EPA 8270C	10185805	NELAP	LA
6620 - Phenobarbital	EPA 8270C	10185805	NELAP	LA
6625 - Phenol	EPA 8270C	10185805	NELAP	LA
7985 - Phorate	EPA 8270C	10185805	NELAP	LA
6650 - Pronamide (Kerb)	EPA 8270C	10185805	NELAP	LA
6660 - Propylthiouracil	EPA 8270C	10185805	NELAP	LA
6665 - Pyrene	EPA 8270C	10185805	NELAP	LA
5095 - Pyridine	EPA 8270C	10185805	NELAP	LA
6680 - Resorcinol	EPA 8270C	10185805	NELAP	LA
8110 - Ronnel	EPA 8270C	10185805	NELAP	LA
8155 - Sulfotepp	EPA 8270C	10185805	NELAP	LA
8200 - Tetrachlorvinphos (Stiropfos, Gardona) Z-isomer	EPA 8270C	10185805	NELAP	LA
8295 - Trifluralin (Treflan)	EPA 8270C	10185805	NELAP	LA
5760 - bis(2-Chloroethoxy)methane	EPA 8270C	10185805	NELAP	LA
5765 - bis(2-Chloroethyl) ether	EPA 8270C	10185805	NELAP	LA
5025 - n-Nitroso-di-n-butylamine	EPA 8270C	10185805	NELAP	LA
6545 - n-Nitrosodi-n-propylamine	EPA 8270C	10185805	NELAP	LA
6525 - n-Nitrosodiethylamine	EPA 8270C	10185805	NELAP	LA
6530 - n-Nitrosodimethylamine	EPA 8270C	10185805	NELAP	LA
6535 - n-Nitrosodiphenylamine	EPA 8270C	10185805	NELAP	LA
6715 - 1,2,4,5-Tetrachlorobenzene	EPA 8270D	10186002	NELAP	LA
5155 - 1,2,4-Trichlorobenzene	EPA 8270D	10186002	NELAP	LA
4610 - 1,2-Dichlorobenzene	EPA 8270D	10186002	NELAP	LA
6155 - 1,2-Dinitrobenzene	EPA 8270D	10186002	NELAP	LA

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## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
6220 - 1,2-Diphenylhydrazine	EPA 8270D	10186002	NELAP	LA
4615 - 1,3-Dichlorobenzene	EPA 8270D	10186002	NELAP	LA
4620 - 1,4-Dichlorobenzene	EPA 8270D	10186002	NELAP	LA
6420 - 1,4-Naphthoquinone	EPA 8270D	10186002	NELAP	LA
5790 - 1-Chloronaphthalene	EPA 8270D	10186002	NELAP	LA
6735 - 2,3,4,6-Tetrachlorophenol	EPA 8270D	10186002	NELAP	LA
6835 - 2,4,5-Trichlorophenol	EPA 8270D	10186002	NELAP	LA
6840 - 2,4,6-Trichlorophenol	EPA 8270D	10186002	NELAP	LA
6000 - 2,4-Dichlorophenol	EPA 8270D	10186002	NELAP	LA
6130 - 2,4-Dimethylphenol	EPA 8270D	10186002	NELAP	LA
6175 - 2,4-Dinitrophenol	EPA 8270D	10186002	NELAP	LA
6185 - 2,4-Dinitrotoluene (2,4-DNT)	EPA 8270D	10186002	NELAP	LA
6005 - 2,6-Dichlorophenol	EPA 8270D	10186002	NELAP	LA
6190 - 2,6-Dinitrotoluene (2,6-DNT)	EPA 8270D	10186002	NELAP	LA
5795 - 2-Chloronaphthalene	EPA 8270D	10186002	NELAP	LA
5800 - 2-Chlorophenol	EPA 8270D	10186002	NELAP	LA
6360 - 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270D	10186002	NELAP	LA
6385 - 2-Methylnaphthalene	EPA 8270D	10186002	NELAP	LA
6400 - 2-Methylphenol (o-Cresol)	EPA 8270D	10186002	NELAP	LA
6460 - 2-Nitroaniline	EPA 8270D	10186002	NELAP	LA
6490 - 2-Nitrophenol	EPA 8270D	10186002	NELAP	LA
5945 - 3,3'-Dichlorobenzidine	EPA 8270D	10186002	NELAP	LA
6120 - 3,3'-Dimethylbenzidine	EPA 8270D	10186002	NELAP	LA
6405 - 3-Methylphenol (m-Cresol)	EPA 8270D	10186002	NELAP	LA
6465 - 3-Nitroaniline	EPA 8270D	10186002	NELAP	LA
5660 - 4-Bromophenyl phenyl ether	EPA 8270D	10186002	NELAP	LA
5700 - 4-Chloro-3-methylphenol	EPA 8270D	10186002	NELAP	LA
5745 - 4-Chloroaniline	EPA 8270D	10186002	NELAP	LA
5825 - 4-Chlorophenyl phenylether	EPA 8270D	10186002	NELAP	LA
6410 - 4-Methylphenol (p-Cresol)	EPA 8270D	10186002	NELAP	LA
6470 - 4-Nitroaniline	EPA 8270D	10186002	NELAP	LA
6500 - 4-Nitrophenol	EPA 8270D	10186002	NELAP	LA
5500 - Acenaphthene	EPA 8270D	10186002	NELAP	LA
5505 - Acenaphthylene	EPA 8270D	10186002	NELAP	LA
5510 - Acetophenone	EPA 8270D	10186002	NELAP	LA
5545 - Aniline	EPA 8270D	10186002	NELAP	LA
5555 - Anthracene	EPA 8270D	10186002	NELAP	LA
5560 - Aramite	EPA 8270D	10186002	NELAP	LA
7075 - Azinphos-methyl (Guthion)	EPA 8270D	10186002	NELAP	LA
5575 - Benz(a)anthracene	EPA 8270D	10186002	NELAP	LA
5595 - Benzidine	EPA 8270D	10186002	NELAP	LA
5580 - Benzo(a)pyrene	EPA 8270D	10186002	NELAP	LA
5585 - Benzo(b)fluoranthene	EPA 8270D	10186002	NELAP	LA
5590 - Benzo(g,h,i)perylene	EPA 8270D	10186002	NELAP	LA
5600 - Benzo(k)fluoranthene	EPA 8270D	10186002	NELAP	LA
5610 - Benzoic acid	EPA 8270D	10186002	NELAP	LA
5630 - Benzyl alcohol	EPA 8270D	10186002	NELAP	LA
5780 - Bis(2-Chloroisopropyl) ether (2,2-oxybis(1-chloropropane))	EPA 8270D	10186002	NELAP	LA
5670 - Butyl benzyl phthalate	EPA 8270D	10186002	NELAP	LA
5680 - Carbazole	EPA 8270D	10186002	NELAP	LA
7260 - Chlorobenzilate	EPA 8270D	10186002	NELAP	LA
7300 - Chlorpyrifos	EPA 8270D	10186002	NELAP	LA
5855 - Chrysene	EPA 8270D	10186002	NELAP	LA

Waypoint Analytical LLC

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Certificate Number: 04015

AI Number: 86553  
Activity No.: ACC20200002  
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## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
7315 - Coumaphos	EPA 8270D	10186002	NELAP	LA
7390 - Demeton	EPA 8270D	10186002	NELAP	LA
7395 - Demeton-o	EPA 8270D	10186002	NELAP	LA
7385 - Demeton-s	EPA 8270D	10186002	NELAP	LA
6065 - Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270D	10186002	NELAP	LA
5925 - Di-n-butyl phthalate	EPA 8270D	10186002	NELAP	LA
6200 - Di-n-octyl phthalate	EPA 8270D	10186002	NELAP	LA
7410 - Diazinon	EPA 8270D	10186002	NELAP	LA
5895 - Dibenz(a,h)anthracene	EPA 8270D	10186002	NELAP	LA
5905 - Dibenzofuran	EPA 8270D	10186002	NELAP	LA
8610 - Dichlorovos (DDVP, Dichlorvos)	EPA 8270D	10186002	NELAP	LA
6070 - Diethyl phthalate	EPA 8270D	10186002	NELAP	LA
7475 - Dimethoate	EPA 8270D	10186002	NELAP	LA
6135 - Dimethyl phthalate	EPA 8270D	10186002	NELAP	LA
7495 - Dioxathion	EPA 8270D	10186002	NELAP	LA
6205 - Diphenylamine	EPA 8270D	10186002	NELAP	LA
8625 - Disulfoton	EPA 8270D	10186002	NELAP	LA
7550 - EPN	EPA 8270D	10186002	NELAP	LA
6260 - Ethyl methanesulfonate	EPA 8270D	10186002	NELAP	LA
7580 - Famphur	EPA 8270D	10186002	NELAP	LA
7600 - Fensulfothion	EPA 8270D	10186002	NELAP	LA
7605 - Fenthion	EPA 8270D	10186002	NELAP	LA
6265 - Fluoranthene	EPA 8270D	10186002	NELAP	LA
6270 - Fluorene	EPA 8270D	10186002	NELAP	LA
6275 - Hexachlorobenzene	EPA 8270D	10186002	NELAP	LA
4835 - Hexachlorobutadiene	EPA 8270D	10186002	NELAP	LA
6285 - Hexachlorocyclopentadiene	EPA 8270D	10186002	NELAP	LA
4840 - Hexachloroethane	EPA 8270D	10186002	NELAP	LA
6315 - Indeno(1,2,3-cd)pyrene	EPA 8270D	10186002	NELAP	LA
6320 - Isophorone	EPA 8270D	10186002	NELAP	LA
7740 - Kepone	EPA 8270D	10186002	NELAP	LA
7755 - Leptophos	EPA 8270D	10186002	NELAP	LA
7770 - Malathion	EPA 8270D	10186002	NELAP	LA
6375 - Methyl methanesulfonate	EPA 8270D	10186002	NELAP	LA
7825 - Methyl parathion (Parathion, methyl)	EPA 8270D	10186002	NELAP	LA
7880 - Monocrotophos	EPA 8270D	10186002	NELAP	LA
7905 - Naled	EPA 8270D	10186002	NELAP	LA
5005 - Naphthalene	EPA 8270D	10186002	NELAP	LA
5015 - Nitrobenzene	EPA 8270D	10186002	NELAP	LA
7955 - Parathion, ethyl	EPA 8270D	10186002	NELAP	LA
7960 - Pendimethalin(Penoxalin)	EPA 8270D	10186002	NELAP	LA
6590 - Pentachlorobenzene	EPA 8270D	10186002	NELAP	LA
6600 - Pentachloronitrobenzene	EPA 8270D	10186002	NELAP	LA
6605 - Pentachlorophenol	EPA 8270D	10186002	NELAP	LA
6610 - Phenacetin	EPA 8270D	10186002	NELAP	LA
6615 - Phenanthrene	EPA 8270D	10186002	NELAP	LA
6620 - Phenobarbital	EPA 8270D	10186002	NELAP	LA
6625 - Phenol	EPA 8270D	10186002	NELAP	LA
7985 - Phorate	EPA 8270D	10186002	NELAP	LA
6665 - Pyrene	EPA 8270D	10186002	NELAP	LA
5095 - Pyridine	EPA 8270D	10186002	NELAP	LA
6680 - Resorcinol	EPA 8270D	10186002	NELAP	LA
8110 - Ronnel	EPA 8270D	10186002	NELAP	LA
8155 - Sulfotepp	EPA 8270D	10186002	NELAP	LA

Waypoint Analytical LLC

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AI Number: 86553

Activity No.: ACC20200002

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# Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
8200 - Tetrachlorvinphos (Stirophos, Gardona) Z-isomer	EPA 8270D	10186002	NELAP	LA
8295 - Trifluralin (Treflan)	EPA 8270D	10186002	NELAP	LA
5760 - bis(2-Chloroethoxy)methane	EPA 8270D	10186002	NELAP	LA
5765 - bis(2-Chloroethyl) ether	EPA 8270D	10186002	NELAP	LA
5025 - n-Nitroso-di-n-butylamine	EPA 8270D	10186002	NELAP	LA
6545 - n-Nitrosodi-n-propylamine	EPA 8270D	10186002	NELAP	LA
6525 - n-Nitrosodiethylamine	EPA 8270D	10186002	NELAP	LA
6530 - n-Nitrosodimethylamine	EPA 8270D	10186002	NELAP	LA
6535 - n-Nitrosodiphenylamine	EPA 8270D	10186002	NELAP	LA
4300 - Acetaldehyde	EPA 8315	10187801	NELAP	LA
4815 - Formaldehyde	EPA 8315	10187801	NELAP	LA
4300 - Acetaldehyde	EPA 8315A	10188008	NELAP	LA
4815 - Formaldehyde	EPA 8315A	10188008	NELAP	LA
1510 - Amenable cyanide	EPA 9010	10192606	NELAP	LA
1645 - Total Cyanide	EPA 9010	10192606	NELAP	LA
1510 - Amenable cyanide	EPA 9010B	10193007	NELAP	LA
1635 - Cyanide	EPA 9010B	10193007	NELAP	LA
1635 - Cyanide	EPA 9014	10193803	NELAP	LA
1645 - Total Cyanide	EPA 9014	10193803	NELAP	LA
2045 - Total Organic Halides (TOX)	EPA 9020	10194000	NELAP	LA
2045 - Total Organic Halides (TOX)	EPA 9020B	10194408	NELAP	LA
1720 - Extractable organics halides (EOX)	EPA 9023	10195003	NELAP	LA
2005 - Sulfide	EPA 9030	10195207	NELAP	LA
2005 - Sulfide	EPA 9031	10195809	NELAP	LA
1925 - Reactive sulfide	EPA 9034	10196006	NELAP	LA
2005 - Sulfide	EPA 9034	10196006	NELAP	LA
1900 - pH	EPA 9040B	10197203	NELAP	LA
1900 - pH	EPA 9045C	10198400	NELAP	LA
1610 - Conductivity	EPA 9050	10198604	NELAP	LA
1610 - Conductivity	EPA 9050A	10198808	NELAP	LA
1540 - Bromide	EPA 9056	10199005	NELAP	LA
1575 - Chloride	EPA 9056	10199005	NELAP	LA
1730 - Fluoride	EPA 9056	10199005	NELAP	LA
1810 - Nitrate as N	EPA 9056	10199005	NELAP	LA
1820 - Nitrate-Nitrite	EPA 9056	10199005	NELAP	LA
1835 - Nitrite	EPA 9056	10199005	NELAP	LA
1840 - Nitrite as N	EPA 9056	10199005	NELAP	LA
2000 - Sulfate	EPA 9056	10199005	NELAP	LA
1825 - Total Nitrate+Nitrite	EPA 9056	10199005	NELAP	LA
1540 - Bromide	EPA 9056A	10199607	NELAP	LA
1575 - Chloride	EPA 9056A	10199607	NELAP	LA
1730 - Fluoride	EPA 9056A	10199607	NELAP	LA
1810 - Nitrate as N	EPA 9056A	10199607	NELAP	LA
1820 - Nitrate-Nitrite	EPA 9056A	10199607	NELAP	LA
1840 - Nitrite as N	EPA 9056A	10199607	NELAP	LA
2000 - Sulfate	EPA 9056A	10199607	NELAP	LA
1825 - Total Nitrate+Nitrite	EPA 9056A	10199607	NELAP	LA
2040 - Total Organic Carbon	EPA 9060	10200201	NELAP	LA
6625 - Phenol	EPA 9065	10200405	NELAP	LA
1905 - Total Phenolics	EPA 9065	10200405	NELAP	LA
1860 - Oil & Grease	EPA 9071B, Rev.2	10201806	NELAP	LA
1580 - Chlorine	EPA 9076	10202401	NELAP	LA
1745 - Free liquid	EPA 9095A	10204203	NELAP	LA
5235 - Vinyl chloride	EPA Method 107	10234250	NELAP	LA

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## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
1780 - Ignitability	EPA 1010A	10234807	NELAP	LA
6380 - 1-Methylnaphthalene	EPA 8270C SIM	10242407	NELAP	LA
6385 - 2-Methylnaphthalene	EPA 8270C SIM	10242407	NELAP	LA
5500 - Acenaphthene	EPA 8270C SIM	10242407	NELAP	LA
5505 - Acenaphthylene	EPA 8270C SIM	10242407	NELAP	LA
5555 - Anthracene	EPA 8270C SIM	10242407	NELAP	LA
5575 - Benz(a)anthracene	EPA 8270C SIM	10242407	NELAP	LA
5580 - Benzo(a)pyrene	EPA 8270C SIM	10242407	NELAP	LA
5585 - Benzo(b)fluoranthene	EPA 8270C SIM	10242407	NELAP	LA
5590 - Benzo(g,h,i)perylene	EPA 8270C SIM	10242407	NELAP	LA
5600 - Benzo(k)fluoranthene	EPA 8270C SIM	10242407	NELAP	LA
5855 - Chrysene	EPA 8270C SIM	10242407	NELAP	LA
5895 - Dibenzo(a,h)anthracene	EPA 8270C SIM	10242407	NELAP	LA
6265 - Fluoranthene	EPA 8270C SIM	10242407	NELAP	LA
6270 - Fluorene	EPA 8270C SIM	10242407	NELAP	LA
6315 - Indeno(1,2,3-cd)pyrene	EPA 8270C SIM	10242407	NELAP	LA
7850 - Mevinphos	EPA 8270C SIM	10242407	NELAP	LA
5005 - Naphthalene	EPA 8270C SIM	10242407	NELAP	LA
6615 - Phenanthrene	EPA 8270C SIM	10242407	NELAP	LA
6665 - Pyrene	EPA 8270C SIM	10242407	NELAP	LA
6380 - 1-Methylnaphthalene	EPA 8270D SIM	10242509	NELAP	LA
6385 - 2-Methylnaphthalene	EPA 8270D SIM	10242509	NELAP	LA
5500 - Acenaphthene	EPA 8270D SIM	10242509	NELAP	LA
5505 - Acenaphthylene	EPA 8270D SIM	10242509	NELAP	LA
5555 - Anthracene	EPA 8270D SIM	10242509	NELAP	LA
5575 - Benz(a)anthracene	EPA 8270D SIM	10242509	NELAP	LA
5580 - Benzo(a)pyrene	EPA 8270D SIM	10242509	NELAP	LA
5585 - Benzo(b)fluoranthene	EPA 8270D SIM	10242509	NELAP	LA
5590 - Benzo(g,h,i)perylene	EPA 8270D SIM	10242509	NELAP	LA
5600 - Benzo(k)fluoranthene	EPA 8270D SIM	10242509	NELAP	LA
5855 - Chrysene	EPA 8270D SIM	10242509	NELAP	LA
5895 - Dibenzo(a,h)anthracene	EPA 8270D SIM	10242509	NELAP	LA
6265 - Fluoranthene	EPA 8270D SIM	10242509	NELAP	LA
6270 - Fluorene	EPA 8270D SIM	10242509	NELAP	LA
6315 - Indeno(1,2,3-cd)pyrene	EPA 8270D SIM	10242509	NELAP	LA
5005 - Naphthalene	EPA 8270D SIM	10242509	NELAP	LA
6615 - Phenanthrene	EPA 8270D SIM	10242509	NELAP	LA
6665 - Pyrene	EPA 8270D SIM	10242509	NELAP	LA
1900 - pH	EPA 9040C	10244403	NELAP	LA
1900 - pH	EPA 9045D	10244607	NELAP	LA
2040 - Total Organic Carbon	EPA 9060A	10244801	NELAP	LA
1745 - Free liquid	EPA 9095B	10245600	NELAP	LA
1429 - Microextraction of Organics in Water	EPA 3511	10279808	NELAP	LA
1950 - Residue-total	SM 2540 G-2011, Rev.22nd	20005270	NELAP	LA
1970 - Residue-volatile	SM 2540 G-2011, Rev.22nd	20005270	NELAP	LA
1404 - Ammonia distillation	SM 4500-NH3 B-2011	20106018	NELAP	LA
1515 - Ammonia as N	SM 4500-NH3 C-2011	20108412	NELAP	LA
1795 - Kjeldahl nitrogen - total	SM 4500-NH3 C-2011	20108412	NELAP	LA
1795 - Kjeldahl nitrogen - total	SM 4500-Norg B-2011	20119215	NELAP	LA
1795 - Kjeldahl nitrogen - total	SM 4500-Norg D-2011	20120289	NELAP	LA
1910 - Total Phosphorus	SM 4500-P E-2011	20124225	NELAP	LA
1544 - Calcium carbonate equivalent	AOAC 955.01, 16th ED	50000834	NELAP	LA
2040 - Total Organic Carbon	Walkley-Black Method	60012002	NELAP	LA
1400 - Acid Digestion of Sludges	LDNR 29-B	90012058	NELAP	LA

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## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
1560 - Cation Exchange Capacity (CEC)	LDNR 29-B	90012058	NELAP	LA
1610 - Electrical Conductivity (EC)	LDNR 29-B	90012058	NELAP	LA
6121 - Exchangeable Sodium Percentage (ESP)	LDNR 29-B	90012058	NELAP	LA
8641 - Moisture % (LDNR 29-B)	LDNR 29-B	90012058	NELAP	LA
1860 - Oil & Grease (LDNR 29-B)	LDNR 29-B	90012058	NELAP	LA
8031 - Sample Preparation Procedure (LDNR 29-B)	LDNR 29-B	90012058	NELAP	LA
1445 - Saturated Paste Preparation	LDNR 29-B	90012058	NELAP	LA
8631 - Saturation %	LDNR 29-B	90012058	NELAP	LA
8041 - Sodium Absorption Ratio (SAR)	LDNR 29-B	90012058	NELAP	LA
1447 - Soluble Cation Extraction Procedure	LDNR 29-B	90012058	NELAP	LA
8044 - Soluble Cations (Na, Ca, Mg)	LDNR 29-B	90012058	NELAP	LA
1015 - True Total Barium	LDNR 29-B	90012058	NELAP	LA
1900 - pH (LDNR 29-B)	LDNR 29-B	90012058	NELAP	LA
6218 - EPH Aliphatic C19-C36	MADEP EPH, Rev.1.1	90017202	NELAP	LA
6222 - EPH Aliphatic C9-C18	MADEP EPH, Rev.1.1	90017202	NELAP	LA
6234 - EPH Aromatic C11-C22 Unadjusted	MADEP EPH, Rev.1.1	90017202	NELAP	LA
4375 - Benzene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
4765 - Ethylbenzene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5000 - Methyl tert-butyl ether (MTBE)	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5005 - Naphthalene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5140 - Toluene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5312 - VPH Aliphatic C6-C8	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5313 - VPH Aliphatic C8-C10	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5310 - VPH Aromatic >C8-C10	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5240 - m+p-xylene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
5250 - o-Xylene	MADEP VPH, Rev.1.1	90017406	NELAP	LA
4375 - Benzene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
4765 - Ethylbenzene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5000 - Methyl tert-butyl ether (MTBE)	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5005 - Naphthalene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5140 - Toluene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5312 - VPH Aliphatic C6-C8	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5313 - VPH Aliphatic C8-C10	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5310 - VPH Aromatic >C8-C10	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5240 - m+p-xylene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
5250 - o-Xylene	MADEP VPH, Rev.2.1	90017451	NELAP	LA
2051 - Total Petroleum Hydrocarbons (>C12-C28)	TNRCC 1005, Rev.3	90019208	NELAP	LA
2052 - Total Petroleum Hydrocarbons (>C28-C35)	TNRCC 1005, Rev.3	90019208	NELAP	LA
9302 - Total Petroleum Hydrocarbons (C6-C12)	TNRCC 1005, Rev.3	90019208	NELAP	LA
9308 - Total Petroleum Hydrocarbons (C6-C35)	TNRCC 1005, Rev.3	90019208	NELAP	LA
2050 - Total Petroleum Hydrocarbons (TPH)	TNRCC 1005, Rev.3	90019208	NELAP	LA

## Biological Tissue

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE

Waypoint Analytical LLC

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**STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Is hereby granting a Louisiana Environmental Laboratory Accreditation to**



**Waypoint Analytical Louisiana Inc  
5041 Taravella Rd  
Marrero, Louisiana 70072-4244**

**Agency Interest No. 25187  
Activity No. ACC20200001**

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and agrees to adapt to any changes in the requirements. It also acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I and the 2009 TNI Standard by which the laboratory was assessed. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

**Cheryl Sonnier Nolan  
Administrator  
Public Participation and Permit Support Services Division**

**Issued Date:** 21 May 2020

**Effective Date:** July 1, 2020  
**Expiration Date:** June 30, 2021  
**Certificate Number:** 02041



STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY

Effective Date: July 1, 2020

5041 Taravella Rd, Marrero, Louisiana 70072-4244

Certificate Number: 02041

Waypoint Analytical Louisiana Inc  
AI Number: 25187  
Activity No.: ACC20200001  
Expiration Date: June 30, 2021

## Air Emissions

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE

## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
2530 - Fecal coliforms	IDEXX Colilert	2531	NELAP	LA
1540 - Bromide	EPA 300.0, Rev.2.1	10053200	NELAP	LA
1575 - Chloride	EPA 300.0, Rev.2.1	10053200	NELAP	LA
1730 - Fluoride	EPA 300.0, Rev.2.1	10053200	NELAP	LA
1805 - Nitrate	EPA 300.0, Rev.2.1	10053200	NELAP	LA
1810 - Nitrate as N	EPA 300.0, Rev.2.1	10053200	NELAP	LA
1820 - Nitrate-Nitrite	EPA 300.0, Rev.2.1	10053200	NELAP	LA
1835 - Nitrite	EPA 300.0, Rev.2.1	10053200	NELAP	LA
1840 - Nitrite as N	EPA 300.0, Rev.2.1	10053200	NELAP	LA
2000 - Sulfate	EPA 300.0, Rev.2.1	10053200	NELAP	LA
1860 - Oil & Grease	EPA 1664A	10127603	NELAP	LA
1860 - Oil & Grease	EPA 1664A (HEM)	10127807	NELAP	LA
1444 - Separatory Funnel Liquid-liquid extraction	EPA 3510C	10138202	NELAP	LA
9369 - Diesel range organics (DRO)	EPA 8015B	10173601	NELAP	LA
2050 - Total Petroleum Hydrocarbons (TPH)	EPA 8015B	10173601	NELAP	LA
5235 - Vinyl chloride	EPA Method 107	10234250	NELAP	LA
1803 - n-Hexane Extractable Material (O&G)	EPA 1664A (SGT-HEM)	10261606	NELAP	LA
1505 - Alkalinity as CaCO <sub>3</sub>	SM 2320 B-2011	20045618	NELAP	LA
2055 - Turbidity	SM 2130 B-2011	20048220	NELAP	LA
1610 - Conductivity	SM 2510 B-2011	20048617	NELAP	LA
1950 - Residue-total	SM 2540 B-2011	20049416	NELAP	LA
1955 - Residue-filterable (TDS)	SM 2540 C-2011	20050413	NELAP	LA
1705 - Total Dissolved Solids	SM 2540 C-2011	20050413	NELAP	LA
1960 - Residue-nonfilterable (TSS)	SM 2540 D-2011	20051212	NELAP	LA
2030 - Temperature, deg. C	SM 2550 B-2000	20053218	NELAP	LA
1035 - Calcium	SM 3111 B-1999	20055418	NELAP	LA
1085 - Magnesium	SM 3111 B-1999	20055418	NELAP	LA
1125 - Potassium	SM 3111 B-1999	20055418	NELAP	LA
1155 - Sodium	SM 3111 B-1999	20055418	NELAP	LA
1045 - Chromium VI	SM 3500-Cr B-2011	20066266	NELAP	LA
1940 - Total residual chlorine	SM 4500-Cl G-2011	20081623	NELAP	LA
1575 - Chloride	SM 4500-Cl <sup>-</sup> C-2011	20085216	NELAP	LA
1900 - pH	SM 4500-H <sup>+</sup> B-2011	20105220	NELAP	LA
1515 - Ammonia as N	SM 4500-NH <sub>3</sub> D-2011	20109415	NELAP	LA
1820 - Nitrate-Nitrite	SM 4500-NO <sub>3</sub> <sup>-</sup> E-2011	20115826	NELAP	LA
1880 - Oxygen, dissolved	SM 4500-O G-2011	20121668	NELAP	LA
1870 - Orthophosphate as P	SM 4500-P E-2011	20124225	NELAP	LA
1530 - Biochemical oxygen demand	SM 5210 B-2011	20135266	NELAP	LA
1555 - Carbonaceous BOD, CBOD	SM 5210 B-2011	20135266	NELAP	LA

Clients and Customers are urged to verify the laboratory's current certification status with the Louisiana Environmental Laboratory Accreditation Program.



## Non Potable Water

Analyte	Method Name	Method Code	Type	AB
1565 - Chemical oxygen demand	SM 5220 D-2011	20136816	NELAP	LA
1710 - Dissolved organic carbon (DOC)	SM 5310 D-2011	20139826	NELAP	LA
2040 - Total Organic Carbon	SM 5310 D-2011	20139826	NELAP	LA
2520 - Enterococci	Enterolert®	60030208	NELAP	LA

## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
1401 - Acid Digestion of waters for Total Recoverable or Dissolved Metals	EPA 3005A	10133207	NELAP	LA
1400 - Acid Digestion of Sediments, Sludges, and soils	EPA 3050B	10135601	NELAP	LA
1444 - Separatory Funnel Liquid-liquid extraction	EPA 3510C	10138202	NELAP	LA
1468 - Ultrasonic Extraction	EPA 3550B	10141807	NELAP	LA
9369 - Diesel range organics (DRO)	EPA 8015B	10173601	NELAP	LA
2050 - Total Petroleum Hydrocarbons (TPH)	EPA 8015B	10173601	NELAP	LA
1540 - Bromide	EPA 9056	10199005	NELAP	LA
1575 - Chloride	EPA 9056	10199005	NELAP	LA
1730 - Fluoride	EPA 9056	10199005	NELAP	LA
1805 - Nitrate	EPA 9056	10199005	NELAP	LA
1810 - Nitrate as N	EPA 9056	10199005	NELAP	LA
1820 - Nitrate-Nitrite	EPA 9056	10199005	NELAP	LA
1835 - Nitrite	EPA 9056	10199005	NELAP	LA
1840 - Nitrite as N	EPA 9056	10199005	NELAP	LA
2000 - Sulfate	EPA 9056	10199005	NELAP	LA
<del>1540 - Bromide</del>	<del>EPA 9056</del>	<del>10199209</del>	<del>NELAP</del>	<del>LA</del>
1575 - Chloride	EPA 9056	10199209	NELAP	LA
1730 - Fluoride	EPA 9056	10199209	NELAP	LA
1810 - Nitrate as N	EPA 9056	10199209	NELAP	LA
1820 - Nitrate-Nitrite	EPA 9056	10199209	NELAP	LA
1840 - Nitrite as N	EPA 9056	10199209	NELAP	LA
2000 - Sulfate	EPA 9056	10199209	NELAP	LA
5235 - Vinyl chloride	EPA Method 107	10234250	NELAP	LA
1900 - pH	EPA 9045D	10244607	NELAP	LA
1400 - Acid Digestion of Sludges	LDNR 29-B	90012058	NELAP	LA
1560 - Cation Exchange Capacity (CEC)	LDNR 29-B	90012058	NELAP	LA
1610 - Electrical Conductivity (EC)	LDNR 29-B	90012058	NELAP	LA
6121 - Exchangeable Sodium Percentage (ESP)	LDNR 29-B	90012058	NELAP	LA
1801 - Leachable Chlorides Test	LDNR 29-B	90012058	NELAP	LA
9452 - Leachable TPH Test	LDNR 29-B	90012058	NELAP	LA
100545 - Leachate Oil and Grease	LDNR 29-B	90012058	NELAP	LA
9482 - Leachate Test	LDNR 29-B	90012058	NELAP	LA
8641 - Moisture % (LDNR 29-B)	LDNR 29-B	90012058	NELAP	LA
1860 - Oil & Grease (LDNR 29-B)	LDNR 29-B	90012058	NELAP	LA
8031 - Sample Preparation Procedure (LDNR 29-B)	LDNR 29-B	90012058	NELAP	LA
1445 - Saturated Paste Preparation	LDNR 29-B	90012058	NELAP	LA
8631 - Saturation %	LDNR 29-B	90012058	NELAP	LA
8041 - Sodium Absorption Ratio (SAR)	LDNR 29-B	90012058	NELAP	LA
1447 - Soluble Cation Extraction Procedure	LDNR 29-B	90012058	NELAP	LA
8044 - Soluble Cations (Na, Ca, Mg)	LDNR 29-B	90012058	NELAP	LA

Waypoint Analytical Louisiana Inc

Effective Date: July 1, 2020

Certificate Number: 02041

AI Number: 25187  
Activity No.: ACC20200001  
Expiration Date: June 30, 2021

Clients and Customers are urged to verify the laboratory's current certification status with the Louisiana Environmental Laboratory Accreditation Program.

## Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
1900 - pH (LDNR 29-B)	LDNR 29-B	90012058	NELAP	LA

## Biological Tissue

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE



## Appendix 5 — Staff Resumes

# Resume



## FIRM

Materials Management Group

## EDUCATION

Master of Science in Public Health (Environmental Health Sciences),  
Tulane University  
New Orleans, LA

Bachelor of Science (Public Health),  
National Taiwan University,  
Taipei, Taiwan

## CERTIFICATIONS

LDEQ Lead Inspector  
(#JI155140)  
LDEQ Lead Risk Assessor  
(#JR155140)  
LDEQ Lead Supervisor  
(#JS155140)

## F. MIMI LO, MSPH

Program Manager and Environmental Health Scientist

### *Summary of Qualifications*

Mimi Lo has over twenty-five (25) years of project management and environmental consulting experience. During her environmental career, she has performed cost control, project management, environmental investigation, supervisory, and quality control roles for lead services. Mimi conducts and supervises lead investigations for several long-standing, multi-property clients. Her responsibilities include project supervision and client relations, coordination, data analysis, and report editing.

### *Relevant Project Experience*

#### **HUD-funded Lead-Based Paint Services, New Orleans, LA**

Mimi has developed lead investigation plans and field procedures over the course of many years for a wide variety of public and private clients. Currently, she performs lead-based paint services to comply with HUD requirements and guidelines for the Jefferson Parish Department of Community Development and the St. Charles Parish Department of Community Services. Her responsibilities include consultation on various Lead Based Paint concerns, supervising and conducting field investigations, monitoring abatement activities, conducting clearance examinations, and preparing final reports.

#### **Lead Investigation and Abatement Program, State of Louisiana Office of Community Development Road Home Program, State of Louisiana**

Mimi was responsible for managing MMG's involvement with the State of Louisiana Office of Community Development Road Home Program. Mimi's responsibilities included interviewing homeowners, scheduling, field investigations, reports, coordination with the State for abatement activities and conducting clearances. At this time, she has completed investigations of over 300 houses enrolled in this program.

#### **Lead Investigations and Abatement Programs, New Orleans, LA**

Mimi coordinated and conducted lead-based paint investigations and assessments for various nonprofit organizations including Rebuilding New Orleans and St. Bernard Project, and other various private entities. Altogether, over 500 housing units were completed in these programs.

#### **RTA Streetcar Expansion Construction Project, New Orleans, LA**

Mimi provided environmental compliance, safety, and regulatory support throughout the course of this project. This project involved ensuring the surrounding communities would be protected from excess noise and vibration during the construction of the new Rampart/Loyola streetcar line. Ms. Lo served the Environmental Monitoring Manager who ensured required daily noise and vibration monitoring were conducted. She also checked the effectiveness of contractor's implementation of the Stormwater Pollution Prevention Plan (SWPPP). She dealt with LDEQ official for the contaminated soil management implementation at the NOUPT location. Her focus on regulatory compliance led to the successful completion of the project with minimal interruptions and disruption to the surrounding neighborhoods.



# Resume



## FIRM

Materials Management Group

## EDUCATION

Doctor of Science  
(Environmental Health  
Science),  
Tulane University,  
New Orleans, LA

Master of Science in Public  
Health (Environmental  
Health Science),  
Tulane University,  
New Orleans, LA

Bachelor of Science,  
National Taiwan University,  
Taipei, Taiwan

## CERTIFICATIONS

LDEQ Lead Project Designer  
(#JD121486)  
LDEQ Lead Supervisor  
(#JS121486)  
LDEQ Lead Risk Assessor  
(#JR121486)  
LDEQ Lead Inspector  
(#JI121486)  
LDEQ UST Closure Worker  
(#C-0593)

## C. PAUL LO, ScD

President and Senior Environmental Health Scientist

### *Summary of Qualifications*

Dr. Lo is the owner of and a Senior Environmental Health Scientist for Materials Management Group. He currently serves as a Project Manager and provides environmental expertise in managing hazardous material/waste, lead paint abatement, mold and other biological agents. He has over thirty (30) years of environmental health science experience in performing site investigations, sampling and analysis of environmental media, hazardous waste treatment, remediation project design, project management, and environmental training. Dr. Lo is also an Adjunct Associate Professor at the Department of Environmental Health Sciences, School of Public Health, Tulane University.

### *Relevant Project Experience*

#### **City of New Orleans Lead in Soil Investigation and Remediation, New Orleans, LA**

Dr. Lo worked with the Office of Coastal and Environmental Affairs and the Department of Health to investigate lead soil distribution in 34 playgrounds and parks. Based on the results, Dr. Lo devised a remediation approach to mitigate the elevated lead soil in each playground. The remediation procedure included placing geotextile over the elevated lead soil areas then covered with clean soil and/or gravel and mulch. The practices were used to reduce exposure to children as well as protection to the existing vegetation and trees in the playgrounds.

#### **Mold Investigations/Consultations/Clearances for New Orleans Area Schools, LA**

Dr. Lo supported MMG with investigations of mold concerns for more than 30 schools within OPSB, the charter school, and RSD school systems. Dr. Lo supervised MMG's technicians in performing bulk and air sampling of mold to determine the various speciation, especially toxic mold, to determine the severity of mold inside the impacted areas. The teams also assessed the cause of mold issues, including high moisture, water intrusion, or HVAC problems. Dr. Lo also used the sampling results to advise staff for cleaning, mitigation, and prevention. If necessary, he would recommend abatement by a certified abatement company and assist OPSB with specification writing. Dr. Lo and his staff would conduct clearance tests to ensure safe re-occupancy of the areas following successful completion of abatement activities.

#### **Legislature Support for OPSB regarding House Bills 180 and 371, LA**

In 2015, HB180 would prohibit construction of new schools on land formerly used in the disposal, storage, or deposition of sewage sludge, solid waste, or oil field waste. OPSB engaged Dr. Lo to provide consultation services to challenge the defined environmental conditions and to argue the use of successfully remediated land. Dr. Lo reviewed HB180 and met with the author to present amendments for consideration. He also testified at the Senate Education Committee hearing on behalf of OPSB. In 2016, a new House Bill (HB371) was passed to allow for new construction of school at previously contaminated sites after remediation to meet LDEQ's requirements. Dr. Lo was engaged again by OPSB and supported HB371.

# Resume



## FIRM

Materials Management Group

## EDUCATION

Master of Science in Public Health (Environmental Health Science)  
Tulane University,  
New Orleans, LA

Bachelor of Arts,  
Brandeis University,  
Waltham, MA

## CERTIFICATIONS

LDEQ Asbestos Management Planner (#9P193973)  
LDEQ Asbestos Contractor/Supervisor (#9S193973)  
LDEQ Asbestos Inspector (#OI193973)  
LDEQ Lead Risk Assessor (#OR193973)  
LDEQ Lead Inspector (#OI193973)

Quality Project & Program Management Training,  
US EPA (Region 6)

## BRAELIN CARTER, MSPH

Operations Manager and Environmental Health Scientist

### *Summary of Qualifications*

Braelin Carter currently serves as the Operations Manager and Environmental Services Coordinator for MMG. Ms. Carter applies her considerable environmental health science experience to all facets of our work including initial research, scope-of-work development, logistical support, field operation management and oversight, quality control/assurance, regulatory interface, quality management plan development, and final report authorship. Furthermore, as a part of MMG's on-going commitment to environmental health stewardship and community revitalization throughout New Orleans, Ms. Carter provides asbestos management training and hands-on educational opportunities to diverse groups of students from local universities, professional organizations, and non-profit groups.

### *Relevant Project Experience*

#### **Lead Inspections and Risk Assessment for Non-Profit Groups, Greater New Orleans Area, LA**

Ms. Carter is the primary project management contact and lead risk assessor for several non-profit groups in and around New Orleans including the St. Bernard Project, Project Homecoming, the Small Rental Property Program, and the Jericho Road Episcopal Housing Initiative. In her capacity as an LDEQ-accredited lead inspector and lead risk assessor, Ms. Carter plans and coordinates site work with home owners and project coordinators, collects paint, soil, dust, and air samples, and provides written deliverables including reports, sampling maps, hazard reduction recommendations, and analytical data assessments.

#### **Lead-Based Paint (LBP) Testing and Lead Hazard Assessment, Hazard Mitigation Specification Development, and Regulatory Compliance Services, SJ Green School, New Orleans, LA**

In response to concerns regarding deteriorated paint and the potential accumulation of lead dust in closets and storage areas located throughout SJ Green School, Ms. Carter worked with Charter Operators and School Board representatives to 1) create and perform a targeted, suspected LBP investigation to identify areas of concern; 2) implement interim lead dust hazard control measures; 3) draft LBP abatement specifications; and 4) provide recommendations regarding abatement air monitoring and clearance air testing services for post-abatement regulatory compliance verification. Over the course of the year, Ms. Carter has provided project consultation, abatement contractor management, and logistical support services in order to address immediate hazard mitigation needs as well formulate a long-term plan to achieve LBP management and stabilization goals for the Facility.

#### **Lead-Based Paint (LBP) Clearance Testing and Regulatory Compliance Verification Work at Ronald McNair School, New Orleans, LA**

On behalf of the Recovery School District, Ms. Carter and Dr. Richard Lo performed clearance investigation and regulatory compliance verification work to immediately assess and rectify potential lead dust/debris contamination of interior and exterior areas of Ronald McNair School caused by the improper isolation of lead abatement work by a 3rd party contractor. Assessment and sampling work included visual inspection of potentially contaminated work areas and the collection of lead dust wipe samples; regulatory compliance work included a thorough review of LAC 33.III Chapter 28 as well as the review of compliance verification requests submitted to RSD by LDEQ. Ms. Carter not only helped draft replies to regulators, she also provided crucial regulatory compliance information to representatives of RSD in order to help manage contractors and achieve project objectives without significant delay.

# Resume



## **FIRM**

Materials Management Group

## **EDUCATION**

Master of Science in Public Health (Global Environmental Health Science),  
Tulane University,  
New Orleans, LA

Bachelor of Science in Public Health,  
Tulane University,  
New Orleans, LA

## **CERTIFICATIONS**

LDEQ Asbestos Contractor/  
Supervisor  
(#9S210196)  
Asbestos Inspector  
(#9I210196)  
Lead Risk Assessor  
(#JR210196)  
Lead Inspector  
(#JI210196)

OSHA 30-Hour Construction  
Industry Outreach Training  
Program

## **SUE-CLAIRE LICHTVELD, MSPH**

Project Manager and Environmental Health Scientist

### *Summary of Qualifications*

Sue-Claire Lichtveld currently serves as an Environmental Health Scientist and a Project Manager for MMG. Her responsibilities include environmental sampling, routine technical support, project management, data collection and analysis, and final report writing. She is an experienced Project Manager, particularly in working directly with OPSB, and prioritizes client relations in her work. Sue-Claire is also capable of performing asbestos inspections, air monitoring, bulk sampling, and clearances; lead-based paint inspections, risk assessments, and clearances; mold testing and air monitoring. In addition to those services, Sue-Claire also provides asbestos management training for diverse groups of students from local universities, professional organizations, and non-profit groups.

### *Relevant Project Experience*

#### **Lead Services, Greater New Orleans Area, LA**

Sue-Claire has served as an LDEQ-certified Lead Inspector and Risk Assessor for several lead-based paint inspections, risk assessments, and clearances conducted throughout New Orleans for OPSB/NOPS school buildings and the non-profit organizations Rebuilding Together New Orleans and the St. Bernard Project. She has also worked closely with Jefferson Parish and the City of Kenner to perform lead services at residences and schools for various grants related to renovation and lead-based paint, specifically. Sue has also consulted directly with the Orleans Parish School Board on the issue of installing filtration systems in schools to mitigate concerns of lead exposure from drinking water.

#### **Soil Monitoring and Project Management at the Juvenile Justice Center/Youth Study Center, New Orleans, LA**

Sue-Claire conducted daily soil monitoring and provides ongoing project management/logistical support for construction and building work conducted at the JJC/YSC Expansion site. Work with protected soils at the site, which are subject to LDEQ's RECAP program, must be in compliance with the site's LDEQ-approved Monitoring and Maintenance Plan at all times in order for work to continue. To support this effort, Sue-Claire provided daily project management, soil management, and regulatory compliance consultation to all stakeholders, including the prime contractor, the architect, and the City of New Orleans.

#### **Asbestos Contractor and Supervisor Services, Greater New Orleans Area, LA**

For several OPSB/NOPS facilities, Sue-Claire has performed and managed abatement and clearance air monitoring actions for asbestos-containing materials. She has coordinated and confirmed state and federal regulatory compliance with AHERA and LDEQ clearance air monitoring, specifically for school buildings throughout Orleans Parish. Sue-Claire also served as an LDEQ-certified Asbestos Contractor and Supervisor during the abatement of both asbestos and lead-based paint at Gallier Hall on behalf of MMG's client, MALIN Construction Company, Inc. She was responsible for day-to-day monitoring air quality outside of the designated abatement areas for the presence of potential airborne asbestos fibers and lead based paint in dust during abatement activities by the abatement contractor, as well as some project management responsibilities.

# Resume



## FIRM

Materials Management Group

## EDUCATION

Master of Public Health  
(Environmental and  
Occupational Health  
Sciences),  
Louisiana State University  
Health Sciences Center,  
New Orleans, LA

Bachelor of Science (Biology  
& Chemistry),  
University of New Orleans,  
New Orleans, LA

## CERTIFICATIONS

LDEQ Asbestos  
Contractor/Supervisor  
(#JS217986)  
LDEQ Asbestos Inspector  
(#JI217986)  
LDEQ Lead Inspector  
(#OI217986)  
LDEQ Lead Risk Assessor  
(#OR217986)

## ERIN LECOMPTE, MPH

Project Manager and Environmental Health Scientist

### *Summary of Qualifications*

Erin LeCompte has served as an Environmental Health Scientist at Materials Management Group (MMG) for over one year. She began her career with MMG upon receiving her master's degree in Environmental and Occupational Health Sciences from Louisiana State University Health Sciences Center. She also provides field-based project management, often acting as a liaison between MMG's upper management and clients, and generates final reports for clients. Erin also assists with asbestos management training and hands-on educational opportunities to diverse groups of students from local universities, professional organizations, and non-profit groups.

### *Relevant Project Experience*

#### **Lead Testing Services for Childcare Facilities and Schools, State of Louisiana**

Erin serves as the primary contact for the Louisiana Department of Health – Office of Public Health (LDH-OPH) during ongoing testing for lead in drinking water in schools and childcare centers across the State of Louisiana. Her role in this project includes scheduling site assessments with facility directors, conducting assessments, creating sampling plans adhering to EPA recommended practices, and coordinating sampling efforts with facility directors, MMG staff, laboratories, and LDH-OPH.

#### **Lead Inspection and Risk Assessment Services, Greater New Orleans Area, LA**

Erin currently acts as a supporting Project Manager for several non-profit groups and schools in New Orleans. Her work in this role typically includes coordinating work with client project managers, interviewing property owners and/or tenants, collecting paint, soil, dust, and air samples, and finalizing reports that summarize sampling results, assessments of data collected, and hazard reduction recommendations.

#### **Phase I Environmental Site Assessments for LSU Health Sciences Center, New Orleans, LA**

Erin has conducted and written multiple Phase I Environmental Site Assessment (PIESA) reports on properties surrounding LSUHSC's downtown New Orleans campus. Erin's roles in these projects included conducting extensive research on target properties and the immediate areas, performing on-site reconnaissance and documenting site conditions, interviewing owners and stakeholders, and final report generation.

#### **Indoor Air Quality Assessments and Mold Investigations, New Orleans, LA**

Erin has conducted multiple indoor air quality assessments alongside MMG's CIH; most of these assessments have been conducted within Schools in the Greater New Orleans area. Her responsibilities for these assessments include sampling for carbon dioxide, mold contamination, and other IAQ parameters in response to odor complaints in certain areas of the building. She interprets the results in a comprehensive final report issued to the client along with recommendations to mitigate odors/concerns.

#### **Asbestos Contractor/Supervisor and Inspector Services, New Orleans, LA**

Erin has provided her services towards multiple Schools throughout her career at MMG. Her services in this regard include daily abatement air monitoring, passive and aggressive AHERA-compliant clearances, and some field-based abatement project management. Erin is also a certified Asbestos Inspector who has assisted with AHERA-compliant initial building inspections and 3-year inspections in multiple schools in Orleans Parish.



# Resume



## FIRM

Materials Management Group

## EDUCATION

Doctor of Philosophy  
(Industrial Hygiene),  
University of Texas,  
Houston, TX

Master of Science in Public  
Health (Environmental  
Health Sciences),  
Tulane University,  
New Orleans, LA

Bachelor of Science (Biology),  
Duke University,  
Durham, NC

## CERTIFICATIONS

LDEQ Asbestos Project  
Designer  
(#JD192398)  
LDEQ Asbestos Management  
Planner  
(#JP192398)  
LDEQ Asbestos  
Contractor/Supervisor  
(#JS192398)  
LDEQ Asbestos Inspector  
(#JI192398)  
LDEQ Lead Inspector  
(#AI192398)  
LDEQ Lead Risk Assessor  
(#AR192398)

Certified Industrial Hygienist,  
American Board of Industrial  
Hygiene,  
(#10480)

## AFFILIATIONS

Member, American Board of  
Industrial Hygiene (AIHA)

## RICHARD LO, PhD, CIH

Technical Manager and Certified Industrial Hygienist

### *Summary of Qualifications*

Dr. Richard Lo, CIH has over 18 years of health, safety, and environment experience in performing occupational and environmental health risk assessments. Dr. Lo serves as a Certified Industrial Hygienist and the Technical Manager of Materials Management Group, Inc. (MMG). His current focus at MMG is on providing technical support for special projects including asbestos abatement design, industrial hygiene, and indoor air quality.

### *Relevant Project Experience*

#### **Indoor Air Quality Assessments, Greater New Orleans Area, LA**

As MMG's CIH, Dr. Lo has conducted numerous indoor air quality (IAQ) assessments throughout his career. Dr. Lo directed the MMG team during IAQ assessments for schools at Mary McLeod Bethune, Edward Hynes, McDonough 28, Ben Franklin Elementary, and Warren Easton. Dr. Lo oversaw sampling for hydrogen sulfide, carbon dioxide, mold contamination, and other IAQ parameters in response to odor complaints in certain areas of the building. Dr. Lo interpreted the results in a final report issued to the client along with recommendations to mitigate odors. Dr. Lo also serves as a consultant to Jefferson Parish for indoor air quality issues, where he most notably wrote recommendations for COVID-19 exposure decontamination.

#### **Residential Lead-Based Paint Investigations, New Orleans, LA**

Supervised the health and safety of workers conducting lead risk assessments on homes built prior to the year 1978 in the New Orleans area. Dr. Lo calibrated and used XRF instruments, conducted lead dust wipe tests, and collected soil samples. Additional project responsibilities included interviewing home owners for lead hazard related information, developing final reports, and constructing site diagrams via CAD software.

#### **Asbestos Legal Expert, Various Areas, LA**

Dr. Lo was contracted by the law firms Irwin, Fritchie, Urquhart and Moore and by Nicaud & Sunseri to provide Industrial Hygiene support for asbestos related legal cases. His work included reviewing previously installed asbestos laws for various industries and commenting on multiple recorded depositions on workers' exposures to asbestos.

#### **Environmental Noise Monitoring, New Orleans, LA**

Dr. Lo has developed and managed environmental and occupational noise programs on behalf of Ramboll Environ. Dr. Lo conducted multiple noise monitoring assessments for residential and industrial environments for compliance to Occupational Safety and Health Act (OSHA) noise standards and U.S. Department of Housing and Urban Development (HUD) noise guidelines.

# Resume



## FIRM

Materials Management Group

## EDUCATION

General Education  
Development,  
New Orleans, LA

## CERTIFICATIONS

LDEQ Asbestos  
Contractor/Supervisor  
(#JS182306)  
LDEQ Asbestos Inspector  
(#JI182306)  
LDEQ Lead Inspector  
(#MI182306)  
LDEQ Lead Risk Assessor  
(#MI182306)

UST Type A/B Operator  
(#LA200820-01-AB-  
LW008815)

## JEFF CAMUS

Environmental Assessment Specialist

### *Summary of Qualifications*

Jeff Camus has provided his technical expertise to MMG for over ten (10) years. Jeff specializes in environmental sampling, field work execution, and on-site inspections for lead, asbestos, mold, and other environmental hazards. Prior to his experience in the environmental field, Jeff worked in residential and institutional ventilation systems, which helped familiarize him with building systems essential for asbestos and lead work. His work at MMG focuses primarily on the identification and quantification of materials potentially containing asbestos and lead in both residential and commercial settings as well as the sampling of a variety of environmental media for a range of chemical and toxicological hazards.

### *Relevant Project Experience*

#### **Lead Inspections and Risk Assessments, New Orleans, LA**

Jeff has conducted numerous lead-based paint inspections, risk assessments, and clearance inspections conducted throughout the greater New Orleans area for various schools under various New Orleans School systems. Jeff's responsibilities included calibrating and using XRF instruments, conducting lead dust wipe tests, and collecting soil samples. Additional project responsibilities included interviewing homeowners for lead hazard related information and constructing site diagrams via CAD software.

#### **Asbestos Inspections, New Orleans, LA**

Jeff has conducted regular asbestos inspections at various schools throughout the New Orleans area to update Asbestos Management Plans for schools under various New Orleans School systems. Asbestos management plan inspections and updates require a comprehensive campus survey which includes a review of the existing management plan, if applicable, a complete visual survey of the School campus, documentation of the condition, location and extent of known or assumed asbestos-containing materials on campus, bulk materials sampling to determine the presence of previously undocumented ACM, and the generation of an LAC III.33 Chapter 27-compliant supplemental asbestos inspection report.

#### **Asbestos Contractor and Supervisor Services, New Orleans, LA**

Jeff has served as an LDEQ-certified Asbestos Contractor/Supervisor for multiple private and government clients. Most recently, Jeff served as Asbestos Contractor and Supervisor during the abatement of Village d'Lest School in New Orleans East on behalf of the Orleans Parish School Board. He was responsible for day-to-day monitoring air quality outside of the designated abatement areas for the presence of potential airborne asbestos fibers during asbestos abatement activities by the contractor, as well as during the demolition of the abated property.

#### **Mold Hazard Investigations, Greater New Orleans Area, LA**

Jeff has conducted over 50 mold investigations during his time at MMG. Jeff's role in these projects includes conducting a visual inspection of the areas of concern; the collection of bulk samples of suspected mold from potential mold growth areas; and air sampling for mold spores conducted at representative locations both inside and outside the building.

#### **Indoor Air Quality Assessments, Greater New Orleans Area, LA**

Jeff has assisted with various indoor air quality (IAQ) assessments throughout his career at MMG. In his work, he sampled for carbon dioxide, mold contamination, and other IAQ parameters in response to odor complaints in certain areas of the building.

# Resume



## FIRM

Materials Management Group

## EDUCATION

General Education  
Development,  
New Orleans, LA

## CERTIFICATIONS

LDEQ Asbestos  
Contractor/Supervisor  
(#JS1184257)  
LDEQ Asbestos Inspector  
(#JI184257)  
LDEQ Lead Inspector  
(#MI184257)  
LDEQ Lead Risk Assessor  
(#MI184257)

UST Type A/B Operator  
(#LA200820-01-AB-  
LW008755)

## JUSTIN CROCHET

### Environmental Assessment Specialist

#### *Summary of Qualifications*

Justin Crochet has provided his technical expertise to MMG for over ten (10) years. Justin specializes in environmental sampling, field work execution, and on-site inspections for lead, asbestos, mold, and other environmental hazards. Prior to his experience in the environmental field, Justin worked in residential and institutional ventilation systems, which helped familiarize him with building systems essential for asbestos and lead work. His work at MMG focuses primarily on the identification and quantification of materials potentially containing asbestos and lead in both residential and commercial settings as well as the sampling of a variety of environmental media for a range of chemical and toxicological hazards.

#### *Relevant Project Experience*

##### **Lead Inspections and Risk Assessments, New Orleans, LA**

Justin has conducted numerous lead-based paint inspections, risk assessments, and clearance inspections conducted throughout the greater New Orleans area for various schools under various New Orleans School systems. Justin's responsibilities included calibrating and using XRF instruments, conducting lead dust wipe tests, and collecting soil samples. Additional project responsibilities included interviewing homeowners for lead hazard related information and constructing site diagrams via CAD software.

##### **Asbestos Inspections, New Orleans, LA**

Justin has conducted regular asbestos inspections at various schools throughout the New Orleans area to update Asbestos Management Plans for schools under various New Orleans School systems. Asbestos management plan inspections and updates require a comprehensive campus survey which includes a review of the existing management plan, if applicable, a complete visual survey of the School campus, documentation of the condition, location and extent of known or assumed asbestos-containing materials on campus, bulk materials sampling to determine the presence of previously undocumented ACM, and the generation of an LAC III.33 Chapter 27-compliant supplemental asbestos inspection report.

##### **Asbestos Contractor and Supervisor Services, New Orleans, LA**

Justin has served as an LDEQ-certified Asbestos Contractor/Supervisor for multiple private and government clients. Most recently, Justin served as Asbestos Contractor and Supervisor during the abatement of Julius Rosenwald School in New Orleans on behalf of the Orleans Parish School Board. He was responsible for day-to-day monitoring air quality outside of the designated abatement areas for the presence of potential airborne asbestos fibers during asbestos abatement activities by the contractor, as well as during the demolition of the abated property.

##### **Mold Hazard Investigations, Greater New Orleans Area, LA**

Justin has conducted over 50 mold investigations during his time at MMG. Justin's role in these projects includes conducting a visual inspection of the areas of concern; the collection of bulk samples of suspected mold from potential mold growth areas; and air sampling for mold spores conducted at representative locations both inside and outside the building.

##### **Indoor Air Quality Assessments, Greater New Orleans Area, LA**

Justin has assisted with various indoor air quality (IAQ) assessments throughout his career at MMG. In his work, he sampled for carbon dioxide, mold contamination, and other IAQ parameters in response to odor complaints in certain areas of the building.



## Appendix 6 — Staff Certifications



**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

*Fenyu Mimi Lo*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

**Lead Inspector**

Accreditation No. JI155140

AI No. 155140

Date of Issuance August 3, 2020

Expiration July 9, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division  
Office of Environmental Services

# STATE OF LOUISIANA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

*Fenyu Mimi Lo*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

Lead Risk Assessor

Accreditation No. JR155140

AI No. 155140

Date of Issuance August 3, 2020

Expiration July 10, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.

  
Public Participation & Permit Support Division  
Office of Environmental Services

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

*Fenyu Mimi Lo*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

**Lead Project Supervisor**

Accreditation No. **JS155140**

AI No. **155140**

Date of Issuance **August 3, 2020**

Expiration **July 11, 2021**

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.

  
Public Participation & Permit Support Division  
Office of Environmental Services

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

***Chongi Paul Lo***

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Inspector**

**Accreditation No. JI121486**

**AI No. 121486**

**Date of Issuance January 22, 2020**

**Expiration January 7, 2021**

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.**

***Paul Bergeron***

**Public Participation & Permit Support Division  
Office of Environmental Services**



**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

***Chongi Paul Lo***

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Risk Assessor**

**Accreditation No. JR121486**

**AI No. 121486**

**Date of Issuance January 22, 2020**

**Expiration January 8, 2021**

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.**

***Paul Bergeron***

**Public Participation & Permit Support Division  
Office of Environmental Services**

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

***Chongi Paul Lo***

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Project Designer**

**Accreditation No. JD121486**

**AI No. 121486**

**Date of Issuance January 22, 2020**

**Expiration January 9, 2021**

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.**

***Paul Bergeron***

**Public Participation & Permit Support Division  
Office of Environmental Services**

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

***Chongi Paul Lo***

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Project Supervisor**

**Accreditation No. JS121486**

**AI No. 121486**

**Date of Issuance January 22, 2020**

**Expiration January 9, 2021**

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.**

***Paul Bergeron***

**Public Participation & Permit Support Division  
Office of Environmental Services**

# STATE OF LOUISIANA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

*Braelin Carter*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

Lead Inspector

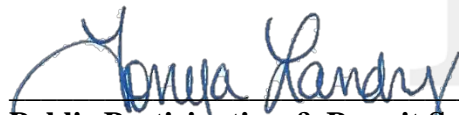
Accreditation No. OI193973

AI No. 193973

Date of Issuance October 23, 2020

Expiration October 15, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division  
Office of Environmental Services

# STATE OF LOUISIANA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

*Braelin Carter*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

Lead Risk Assessor

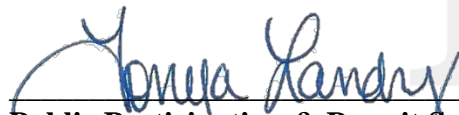
Accreditation No. OR193973

AI No. 193973

Date of Issuance October 23, 2020

Expiration October 16, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division  
Office of Environmental Services



**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

*Sue Lichtveld*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

**Lead Inspector**

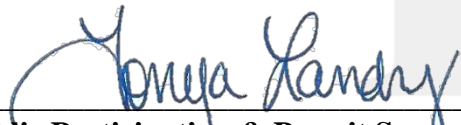
Accreditation No. J1210196

AI No. 210196

Date of Issuance August 3, 2020

Expiration July 9, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division  
Office of Environmental Services

# STATE OF LOUISIANA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

*Sue Lichtveld*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

Lead Risk Assessor

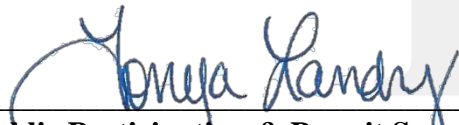
Accreditation No. JR210196

AI No. 210196

Date of Issuance August 3, 2020

Expiration July 10, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division  
Office of Environmental Services

# STATE OF LOUISIANA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

*Erin LeCompte*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

Lead Inspector

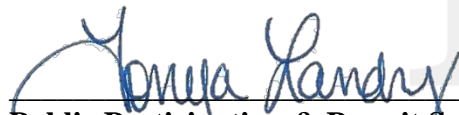
Accreditation No. OI217986

AI No. 217986

Date of Issuance October 23, 2020

Expiration October 13, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division  
Office of Environmental Services

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

***Erin LeCompte***

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Risk Assessor**

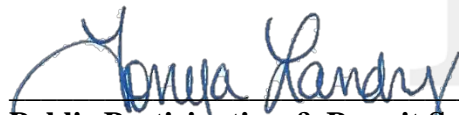
**Accreditation No. OR217986**

**AI No. 217986**

**Date of Issuance October 23, 2020**

**Expiration October 14, 2021**

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.**



**Public Participation & Permit Support Division  
Office of Environmental Services**

# STATE OF LOUISIANA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

*Richard C Lo*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

Lead Inspector

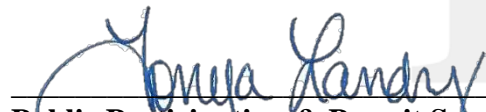
Accreditation No. AI192398

AI No. 192398

Date of Issuance August 3, 2020

Expiration August 18, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division  
Office of Environmental Services



# STATE OF LOUISIANA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

*Richard C Lo*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

**Lead Risk Assessor**

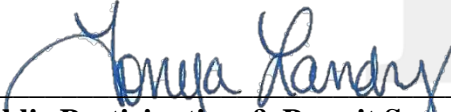
Accreditation No. AR192398

AI No. 192398

Date of Issuance August 3, 2020

Expiration August 24, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division  
Office of Environmental Services

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

*Jeffrey P Camus*

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Inspector**

**Accreditation No. MI182306**

**AI No. 182306**

**Date of Issuance March 11, 2020**

**Expiration March 5, 2021**

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.**



\_\_\_\_\_  
Public Participation & Permit Support Division  
Office of Environmental Services

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**certifies that**

***Jeffrey P Camus***

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Risk Assessor**

**Accreditation No. MR182306**

**AI No. 182306**

**Date of Issuance March 11, 2020**

**Expiration March 6, 2021**

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.**



**Public Participation & Permit Support Division  
Office of Environmental Services**

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

*Justin H Crochet*

**Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of**

**Lead Inspector**

**Accreditation No. MI184257**

**AI No. 184257**

**Date of Issuance March 11, 2020**

**Expiration March 5, 2021**

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



**Public Participation & Permit Support Division  
Office of Environmental Services**

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

*Justin H Crochet*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

Lead Risk Assessor

Accreditation No. MR184257

AI No. 184257

Date of Issuance March 11, 2020

Expiration March 6, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.



Public Participation & Permit Support Division  
Office of Environmental Services





## Appendix 7 — Financial Statements

**MATERIALS MANAGEMENT GROUP, INC.**

COMPILED FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2017

MATERIALS MANAGEMENT GROUP, INC.  
COMPILED FINANCIAL STATEMENTS  
Year Ended December 31, 2017

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# Busenlener & Johnson, CPAs

CERTIFIED PUBLIC ACCOUNTANTS • A PROFESSIONAL CORPORATION

JOHN R. BUSENLENER, CPA, JD  
STEVEN B. JOHNSON, CPA, PFS

(504) 838-2251  
FAX: (504) 838-2267  
EMAIL: john@bj-cpas.com  
steven@bj-cpas.com

To Management  
Materials Management Group, Inc.  
New Orleans, Louisiana 70114

Management is responsible for the accompanying financial statements of Materials Management Group, Inc. (an S Corporation), which comprise the balance sheet as of December 31, 2017, and the related statement of income and retained earnings for the year then ended in accordance with accounting principles generally accepted in the United States of America. We have performed a compilation engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the AICPA. We did not audit or review the financial statements nor were we required to perform any procedures to verify the accuracy or completeness of the information provided by management. Accordingly, we do not express an opinion, a conclusion, nor provide any form of assurance on these financial statements.

Management has elected to omit substantially all the disclosures and the statement of cash flows required by accounting principles generally accepted in the United States of America. If the omitted disclosures and statement of cash flows were included in the financial statements, they might influence the user's conclusions about the Company's financial position, results of operations, and cash flows. Accordingly, the financial statements are not designed for those who are not informed about such matters.

**Busenlener & Johnson, CPAs**

Metairie, Louisiana  
October 22, 2018

MATERIALS MANAGEMENT GROUP, INC.  
BALANCE SHEET  
December 31, 2017

ASSETS

	<u>2017</u>
CURRENT ASSETS	
Cash	\$ 10,666
Trade accounts receivable (net)	<u>43,041</u>
TOTAL CURRENT ASSETS	53,707
PROPERTY AND EQUIPMENT	
Condominium	913,972
Furniture and fixtures	4,395
Vehicles	428,210
Equipment	193,729
Accumulated depreciation	<u>(454,441)</u>
NET PROPERTY AND EQUIPMENT	1,085,865
OTHER ASSETS	
Deposits	<u>37</u>
NET OTHER ASSETS	<u>37</u>
TOTAL ASSETS	<u>\$ 1,139,609</u>

LIABILITIES AND STOCKHOLDERS' EQUITY

CURRENT LIABILITIES	
Accounts payable	\$ 38,076
Accrued expenses	147,712
Loan from officer	584,026
Current portion of long-term debt	<u>69,774</u>
TOTAL CURRENT LIABILITIES	839,588
Long-term debt, less current installments	-
STOCKHOLDERS' EQUITY	
Capital stock - no par value, 10,000 shares authorized, 225 shares outstanding	162,951
Additional paid-in capital	195,645
Less: Treasury stock	(87,396)
Retained earnings	<u>28,821</u>
STOCKHOLDERS' EQUITY	<u>300,021</u>
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	<u>\$ 1,139,609</u>

See accompanying notes and accountants' compilation report.



MATERIALS MANAGEMENT GROUP, INC.  
STATEMENT OF INCOME AND RETAINED EARNINGS  
Year Ended December 31, 2017

	<u>2017</u>
PROJECT FEE INCOME	\$ 976,730
DIRECT PROJECT COSTS	<u>-</u>
GROSS PROFIT	976,730
SELLING AND ADMINISTRATIVE EXPENSES	
Auto expense	23,843
Bad debts	30
Contract labor	59,325
Depreciation	111,987
Insurance	60,524
Laboratory expense	54,260
Miscellaneous expense	16,083
Office supplies and expense	119,690
Professional fees	18,504
Rent	48,422
Equipment and Field supplies	128,020
Salaries	319,517
Training and education	5,350
Travel and entertainment	58,100
License and taxes	<u>49,804</u>
TOTAL SELLING & ADMINISTRATIVE EXPENSES	<u>1,073,459</u>
NET OPERATING INCOME	(96,729)
OTHER INCOME (EXPENSE)	
Contributions	(2,700)
Interest income	-
Interest expense	<u>(994)</u>
TOTAL OTHER INCOME (EXPENSE)	<u>(3,694)</u>
NET INCOME (LOSS)	(100,423)
RETAINED EARNINGS BEGINNING OF YEAR	<u>129,244</u>
RETAINED EARNINGS END OF YEAR	<u><u>\$ 28,821</u></u>

See accompanying notes and accountants' compilation report.

**MATERIALS MANAGEMENT GROUP, INC.**

COMPILED FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2018

MATERIALS MANAGEMENT GROUP, INC.  
COMPILED FINANCIAL STATEMENTS  
Year Ended December 31, 2018

INDEX

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FINANCIAL STATEMENTS	
Balance Sheet .....	2
Statement of Income (Loss) and Retained Earnings (Deficit) .....	3



## **Busenlener & Johnson, CPAs**

**CERTIFIED PUBLIC ACCOUNTANTS • A PROFESSIONAL CORPORATION**

JOHN R. BUSENLENER, CPA, JD  
STEVEN B. JOHNSON, CPA, PFS

(504) 838-2251  
FAX: (504) 838-2267  
EMAIL: john@bj-cpas.com  
steven@bj-cpas.com

To Management  
Materials Management Group, Inc.  
New Orleans, Louisiana 70114

Management is responsible for the accompanying financial statements of Materials Management Group, Inc. (an S Corporation), which comprise the balance sheet as of December 31, 2018, and the related statement of income (loss) and retained earnings (deficit) for the year then ended in accordance with accounting principles generally accepted in the United States of America. We have performed a compilation engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the AICPA. We did not audit or review the financial statements, nor were we required to perform any procedures to verify the accuracy or completeness of the information provided by management. Accordingly, we do not express an opinion, a conclusion, nor provide any form of assurance on these financial statements.

Management has elected to omit substantially all the disclosures and the statement of cash flows required by accounting principles generally accepted in the United States of America. If the omitted disclosures and statement of cash flows were included in the financial statements, they might influence the user's conclusions about the Company's financial position, results of operations, and cash flows. Accordingly, the financial statements are not designed for those who are not informed about such matters.

*Busenlener and Johnson CPAs*

**Busenlener & Johnson, CPAs**

Metairie, Louisiana  
August 26, 2019

MATERIALS MANAGEMENT GROUP, INC.  
BALANCE SHEET  
December 31, 2018

ASSETS		<u>2018</u>
CURRENT ASSETS		
Cash		\$ 132,309
Trade accounts receivable (net)		<u>91,670</u>
TOTAL CURRENT ASSETS		223,979
PROPERTY AND EQUIPMENT		
Condominium		913,972
Furniture and fixtures		4,395
Vehicles		428,210
Equipment		194,728
Accumulated depreciation		<u>(545,931)</u>
NET PROPERTY AND EQUIPMENT		<u>995,374</u>
TOTAL ASSETS		<u>\$ 1,219,353</u>

LIABILITIES AND STOCKHOLDERS' EQUITY

CURRENT LIABILITIES		
Accounts payable		\$ 43,194
Accrued expenses		68,944
Loan from officer		<u>863,281</u>
TOTAL CURRENT LIABILITIES		975,419
STOCKHOLDERS' EQUITY		
Capital stock - no par value, 10,000 shares authorized, 225 shares outstanding		162,951
Additional paid-in capital		195,645
Less: Treasury stock		(87,396)
Retained earnings		<u>(27,266)</u>
STOCKHOLDERS' EQUITY		<u>243,934</u>
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY		<u>\$ 1,219,353</u>

See accompanying notes and accountants' compilation report.



MATERIALS MANAGEMENT GROUP, INC.  
STATEMENT OF INCOME (LOSS) AND RETAINED EARNINGS (DEFICIT)  
Year Ended December 31, 2018

	<u>2018</u>
PROJECT FEE INCOME	<u>\$ 1,170,547</u>
GROSS PROFIT	1,170,547
SELLING AND ADMINISTRATIVE EXPENSES	
Auto expense	22,698
Bad debts	13,504
Contract labor	131,818
Depreciation	91,490
Insurance	84,862
Laboratory expense	44,807
Miscellaneous expense	16,604
Office supplies and expense	58,440
Professional fees	15,318
Rent	53,515
Equipment and Field supplies	134,210
Salaries	425,864
Training and education	7,090
Travel and entertainment	50,361
License and taxes	<u>54,079</u>
TOTAL SELLING & ADMINISTRATIVE EXPENSES	<u>1,204,660</u>
NET OPERATING INCOME (LOSS)	(34,113)
OTHER INCOME (EXPENSE)	
Contributions	(900)
Interest income	-
Interest expense	<u>(7,140)</u>
TOTAL OTHER INCOME (EXPENSE)	<u>(8,040)</u>
NET INCOME (LOSS)	(42,153)
RETAINED EARNINGS BEGINNING OF YEAR	28,821
DISTRIBUTIONS	<u>(13,934)</u>
RETAINED EARNINGS (DEFICIT) END OF YEAR	<u><u>\$ (27,266)</u></u>

See accompanying notes and accountants' compilation report.

**MATERIALS MANAGEMENT GROUP, INC.**

COMPILED FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2019

MATERIALS MANAGEMENT GROUP, INC.  
COMPILED FINANCIAL STATEMENTS  
Year Ended December 31, 2019

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## Busenlener & Johnson, CPAs

CERTIFIED PUBLIC ACCOUNTANTS • A PROFESSIONAL CORPORATION

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To Management  
Materials Management Group, Inc.  
New Orleans, Louisiana 70114

Management is responsible for the accompanying financial statements of Materials Management Group, Inc. (an S Corporation), which comprise the balance sheet as of December 31, 2019, and the related statement of income (loss) and retained earnings (deficit) for the year then ended in accordance with accounting principles generally accepted in the United States of America. We have performed a compilation engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the AICPA. We did not audit or review the financial statements, nor were we required to perform any procedures to verify the accuracy or completeness of the information provided by management. Accordingly, we do not express an opinion, a conclusion, nor provide any form of assurance on these financial statements.

Management has elected to omit substantially all the disclosures and the statement of cash flows required by accounting principles generally accepted in the United States of America. If the omitted disclosures and statement of cash flows were included in the financial statements, they might influence the user's conclusions about the Company's financial position, results of operations, and cash flows. Accordingly, the financial statements are not designed for those who are not informed about such matters.

*Busenlener & Johnson, CPAs/pre*

**Busenlener & Johnson, CPAs**

Metairie, Louisiana

November 20, 2020

MATERIALS MANAGEMENT GROUP, INC.  
BALANCE SHEET  
December 31, 2019

ASSETS

	<u>2019</u>
CURRENT ASSETS	
Cash	\$ 122,581
Trade accounts receivable (net)	<u>126,208</u>
TOTAL CURRENT ASSETS	248,789
 PROPERTY AND EQUIPMENT	
Condominium	913,972
Furniture and fixtures	4,395
Vehicles	428,210
Equipment	194,728
Accumulated depreciation	<u>(589,998)</u>
NET PROPERTY AND EQUIPMENT	<u>951,307</u>
 TOTAL ASSETS	 <u>\$ 1,200,096</u>

LIABILITIES AND STOCKHOLDERS' EQUITY

CURRENT LIABILITIES	
Accounts payable	\$ 83,569
Accrued expenses	108,544
Loan from officer	<u>779,482</u>
TOTAL CURRENT LIABILITIES	971,595
 STOCKHOLDERS' EQUITY	
Capital stock - no par value, 10,000 shares authorized, 225 shares outstanding	162,951
Additional paid-in capital	195,645
Less: Treasury stock	(87,396)
Retained earnings	<u>(42,699)</u>
STOCKHOLDERS' EQUITY	<u>228,501</u>
 TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	 <u>\$ 1,200,096</u>

See accompanying notes and accountants' compilation report.



MATERIALS MANAGEMENT GROUP, INC.  
STATEMENT OF INCOME (LOSS) AND RETAINED EARNINGS (DEFICIT)  
Year Ended December 31, 2019

	<u>2019</u>
PROJECT FEE INCOME	\$ 1,054,293
GROSS PROFIT	1,054,293
SELLING AND ADMINISTRATIVE EXPENSES	
Auto expense	28,489
Bad debts	18,296
Contract labor	17,982
Depreciation	44,067
Insurance	79,263
Laboratory expense	109,596
Miscellaneous expense	20,467
Office supplies and expense	28,758
Professional fees	19,058
Rent	53,511
Equipment and Field supplies	120,865
Salaries	412,548
Training and education	11,657
Travel and entertainment	46,599
License and taxes	<u>54,263</u>
TOTAL SELLING & ADMINISTRATIVE EXPENSES	<u>1,065,419</u>
NET OPERATING INCOME (LOSS)	(11,126)
OTHER INCOME (EXPENSE)	
Contributions	(1,624)
Interest expense	<u>(2,683)</u>
TOTAL OTHER INCOME (EXPENSE)	<u>(4,307)</u>
NET INCOME (LOSS)	(15,433)
RETAINED EARNINGS BEGINNING OF YEAR	(27,266)
DISTRIBUTIONS	<u>(0)</u>
RETAINED EARNINGS (DEFICIT) END OF YEAR	<u>\$ (42,699)</u>

See accompanying notes and accountants' compilation report.