Gaithersburg
A CHARACTER COUNTS! CITY

City of Gaithersburg

31 South Summit Avenue, Gaithersburg, Maryland 20877

INVITATION FOR BID

No. 2015-016

Demolition of Buildings Located at the Former Consumer Product Safety Commission Site

Solicitation Issued: February 06, 2015

Bid Submissions Due: March 13, 2015 Time: 11:00 a.m.

Submissions Received By:
Ron Kaczmarek
Facilities & Capital Projects Division Chief
City of Gaithersburg
Department of Public Works
800 Rabbitt Road
Gaithersburg, Maryland 20878

MAYOR
Jud Ashman

COUNCIL MEMBERS
Cathy Drzyzgula
Henry Marraffa, Jr.
Michael Sesma
Neil Harris
Ryan Spiegel

CITY MANAGER
Tony Tomasello

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SECTION 1: Definitions

Bid Proposal: "Bid Proposal" means the offer and any and all documents submitted to the City by a Bidder in response to this Solicitation.

Bidder: "Bidder" means any Person submitting a Bid Proposal in response to this Solicitation.

City: "City" means the City of Gaithersburg, Maryland, a municipal corporation of the State of Maryland.

City Manager: "City Manager" means the City Manager of the City.

Contract: "Contract" means the binding agreement awarded pursuant to this Solicitation, if any.

Contract Administrator: "Contract Administrator" means the City employee assigned to administer the Contract.

Contractor: "Contractor" means the Bidder awarded the Contract.

Critical Path Method (CPM): "Critical Path Method" means a step-by-step project management technique for process planning that defines critical and non-critical tasks with the goal of preventing time-frame problems and process bottlenecks.

Lowest Responsive Bid Proposal: "Lowest Responsive Bid Proposal" means the Bid Proposal accepted by the City, which offers the lowest total price, including alternates if awarded, and that fully conforms in all material respects to the requirements of this Solicitation, all form and substance included.

Person: "Person" means any individual, sole proprietorship, association, company, firm, partnership, limited partnership, joint venture, corporation, Limited Liability Company or other form of entity or association recognized by law.

Price Analysis: "Price Analysis" means the examination of the Bid Proposal Price to ensure it is fair and reasonable.

Procurement Webpage: "Procurement Webpage" means the webpage on the City's website dedicated to procurement: http://www.gaithersburgmd.gov/government/procurement/current-bids.

Responsible Bidder: "Responsible Bidder" means a Bidder: who meets all of the minimum qualifications specified in this Solicitation; and who is fully capable to and able to evidence its ability to provide the Services under the Contract.

Solicitation: "Solicitation" means this Invitation to Bid.

Solicitation Schedule: "Solicitation Schedule" refers to the events and dates and times thereof specified in Section 3.1 of this Solicitation.

Solicitation Documents: "Solicitation Documents" mean this Solicitation and any and all documents issued and/or used by the City to solicit Bid Proposals, including but not limited to: addendums, amendments, forms and specifications.

Submission Deadline: "Submission Deadline" means the date and time, specified in Section 3.1 of this Solicitation, in which all Bid Proposals shall be submitted to and received by the City.

Submission Location: "Submission Locations" means the location all Bid Proposals shall be submitted to and received by the City.

Substantial Completion: "Substantial Completion" means the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

~ END OF SECTION 1 ~

SECTION 2: Introduction and Notices to Bidders

2.1. INTRODUCTION

The City is seeking sealed Bid Proposals for the demolition of eight (8) existing buildings on the former CPSC site, which is located at 10901 Darnestown Road, Gaithersburg, Maryland 20878. Refer to Section 7 for actual Scope of Work.

2.2. CITY'S LIABILITY

This is a Solicitation only, it is not a contract. The City shall assume no obligation to pay or reimburse any Person for any costs, fees, or expenses incurred in preparation of a response to this Solicitation, or for any meetings or travel costs related to such response. The City reserves the right to reject any or all Bid Proposals in full or in part and/or to waive any technicalities or informalities as best may serve the interests of the City. The City is under no obligation to any Bidder until a contract is executed for the Services described herein.

2.3. AUTHORITY TO DISTRIBUTE SOLICITATION DOCUMENTS

The City is the sole entity with the authority to issue and/or distribute any Solicitation Documents. Any and all Solicitation Documents obtained from any source other than the City may be incomplete or incorrect. The City assumes no responsibility for any error, omission or misinterpretation resulting from the reliance or use of any Solicitation Documents not both issued and distributed by the City. Any and all Solicitation Documents shall be posted on the Procurement Webpage.

2.4. ACCEPTANCE

The submission of a Bid Proposal shall constitute acknowledgement and acceptance by the Bidder of the requirements, specifications and terms and conditions specified herein.

2.5. RESTRICTED DISCUSSIONS

Bidders are prohibited from discussing this Solicitation or any part thereof with any employee, agent, or representative of the City except as expressly authorized herein. The City may, in its sole discretion, reject the Bid Proposal submitted by any Bidder who is in violation of this provision.

2.6. STATE OF MARYLAND BID AND CONTRACT REQUIREMENTS

A. Bidders must be qualified to bid in the State of Maryland in accordance with §16-202 and §16-203 of the State Finance and Procurement Article of the Annotated Code of Maryland.

B. To enter into any contract with the City, Bidders must be in compliance with the State of Maryland Code of Regulations Title 21, State Procurement Regulations.

2.7. ADA REQUIREMENTS

Individuals with a disability, who would like to receive the information in this Solicitation in another form, may contact the City's Procurement Manager by phone at 301-258-6320 or by email at wrhodes@gaithersburgmd.gov.

~ END OF SECTION 2 ~

SECTION 3: Solicitation Schedule and Information

3.1. SOLICITATION SCHEDULE

Below is the schedule of events for this Solicitation (hereinafter referred to as "Solicitation Schedule"). The City reserves the right to modify the Solicitation Schedule at any time as best may serve the interests of the City; any and all modifications shall be made by addendum or amendment and posted on the City's Procurement Webpage.

EVENT	DATE	TIME
A. Solicitation Issued:	**February 6, 2015**	**N/A**
B. Pre-Bid Meeting and Site Visit: *See Subsection 3.2 for instructions*	**February 20, 2015**	**11:00 a.m.**
C. Bidder Questions Due in Writing: *See Subsection 3.3 for additional information*	**February 27, 2015**	**3:00 p.m.**
D. City's Answers to Questions Issued: *See Subsection 3.4 for additional information*	**March 6, 2015**	**N/A**
E. Submission Deadline: *See Subsection 4.2 for additional information*	**March 13, 2015**	**11:00 a.m.**
F. Opening of Bid Proposals: *See Subsection 3.5 for additional information*	**March 13, 2015**	**11:00 a.m.**

3.2. PRE-BID PROPOSAL MEETING AND SITE VISIT

A. The Pre-Bid Meeting and Site Visit for this Solicitation (hereinafter referred to as "Pre-Bid Meeting") will be at the following location on the date and time specified in the Solicitation Schedule:

Department of Public Works
800 Rabbitt Road
Gaithersburg, Maryland 20878

B. Attendance of the Pre-Bid Meeting is not mandatory but is strongly encouraged. The purpose of the Pre-Bid Meeting is to provide a method for all Bidders to become familiar with any and all conditions which may, in any manner, affect the Services to be provided under the Contract. Immediately following the Pre-Bid Meeting, there will be a visit to the Project Site. Any additional site visits shall be coordinated with the City's project manager (hereinafter referred to as "Project Manager").

C. A claim by any Bidder of a lack of knowledge of any such conditions shall not be grounds for any additional allowances and/or for any protest by the Bidder. The submission of a Bid Proposal by any Bidder shall be taken as prima facie evidence that the Bidder has familiarized themselves with the nature and extent of the Services to be provided under the Contract.

3.3. SUBMISSION OF BIDDER QUESTIONS

All questions regarding this Solicitation shall: (i) be submitted by email to Ron Kaczmarek, Facilities & Capital Projects Division Chief, at rkaczmarek@gaithersburgmd.gov; and (ii) be received by the date and time specified in the Solicitation Schedule. Any and all questions received not in compliance with this paragraph will not be answered unless the City, at its sole discretion, deems that a response to a question is necessary to clarify anything in the Solicitation Documents.

3.4. CITY'S ANSWERS TO BIDDER QUESTIONS

The City's answers to questions submitted by Bidders will be posted by addendum on the City's Procurement Webpage on the date specified in the Solicitation Schedule.

3.5. OPENING OF BID PROPOSALS

Bid Proposals will be opened and publicly read aloud on the date and at the time and location specified in the Solicitation Schedule.

~ END OF SECTION 3 ~

SECTION 4: Bid Proposal Content, and Preparation and Submission

4.1. BID PROPOSAL CONTENT

All Bidders shall include the following information and documents in their Bid Proposals:

A. Statement of Qualifications

A statement of qualifications (hereinafter referred to as "SOQ"), which shall include the following information and documents organized into sections, as follows:

I. Business Profile

This section of the SOQ relates to the Bidder's business profile and shall include:

- The legal name of the business and, if applicable under this Solicitation, the trade name of the business;
- The type of business (i.e. corporation, limited liability corporation or company, partnership, etc.);
- The state where this business is domiciled (formed);
- The location of the principle office and any and all branch office(s) for the business;
- The nature of the business; and
- The geographical area(s) the business services.

II. Capabilities, Qualifications and Resources

This section of the SOQ shall describe the capabilities and qualifications of, and the resources available to, the Bidder to provide the Services.

III. Training Programs and Business Policies

This section of the SOQ relates to the Bidder's training programs and rules and regulations, and shall:

- Include and describe any and all of the Bidder's training programs, such as management, OSHA and technical training programs.
- Include and describe any and all of the Bidder's quality control measures.
- Describe and include as an attachment, any and all rules and regulations governing the business' employees during working hours.

IV. Financial Wellness

This section of the SOQ relates to the financial wellness of the business and shall include, as an attachment, a letter of recommendation from a financial institution that describes attests to whether the Bidder is financially responsible to provide the Services.

V. References
This section of the SOQ shall include description and references of three (3) similar types of projects in size and scope completed by the Bidder in last five (5) years.

VI. Subcontractor Qualifications
This section of the SOQ shall include a separate SOQ for any and all subcontractors hired by the Bidder to provide any of the Services under this Solicitation.

B. Demolition Plan
A demolition plan, which shall include:

I. A written narrative describing project execution with simplified means and methods listed.

II. A CPM project schedule and phase planning, payments milestones, schedule of values and construction progress reporting methods.

III. Upon Award of Contract, the City of Gaithersburg requests the right to negotiate payment milestones with Awardee.

C. Forms and Documents
The following documents and forms, which are attached hereto as Attachments:

I. Affidavit of Qualification to Bid
II. Bid Proposal Price Sheet
    - Add complete Line Item Breakdown
III. Bid Proposal Submission Certification
IV. Bidder Reference Data Sheet
V. Conflict of Interest Certification
VI. Litigation and Lien Information
VII. Statement of Qualifications/Questionnaire

4.2. BID PROPOSAL PREPARATION AND SUBMISSION
The Bidder shall submit four (4) complete sets of its Bid Proposal in a sealed package (hereinafter referred to as "Bid Proposal Package") in accordance with and subject to the following instructions and conditions:

A. The Bid Proposal Package shall contain the following:

- One (1) original paper Bid Proposal. All documents and forms shall be completed in their entirety and, when applicable, be notarized and/or signed in ink by an authorized or duly authorized representative of the Bidder.

- Two (2) identical paper copies of the original Bid Proposal.

- One (1) identical electronic copy of the original Bid Proposal on a compact disc or flash drive.

B. The Bid Proposal Package shall have the following information printed clearly on the outside of the Bid Proposal Package:

- ➥ Solicitation Number;
- ➥ Solicitation Title; and
- ➥ Name of the Bidder submitting the Bid Proposal Package

C. The Bid Proposal Package shall be addressed to Ron Kaczmarek, Facilities & Capital Projects Division Chief, and submitted at the following location by the Submission Deadline specified in the Solicitation Schedule:

City of Gaithersburg
Department of Public Works
800 Rabbitt Road
Gaithersburg, Maryland 20878

Any and all Bid Proposals not received by the City by the Submission Deadline and/or that are not submitted at the above location shall be deemed non-responsive.

D. The City shall assume no responsibility for delays or errors in the delivery of any Bid Proposal; postmarking by the Closing Date shall not substitute for actual receipt.

E. The Bidder is strictly prohibited from submitting its Bid Proposal by facsimile or by e-mail. Any and all Bid Proposals submitted as such shall be rejected as non-responsive and be removed from consideration.

F. No partial Bids will be accepted or reviewed. Partial Bids are considered incomplete and subject to immediate exclusion from consideration

G. Any and all Bid Proposals submitted not in compliance with any of the provisions herein shall be rejected as non-responsive and be removed from consideration.

~ END OF SECTION 4 ~

SECTION 5: General Terms and Conditions

The following terms and conditions shall apply to and survive this Solicitation and be incorporated into the Contract:

5.1. HEADINGS

Any and all of the headings contained in any of the Solicitation Documents are for reference purposes only and shall not in any way affect the meaning or interpretation of any of the same.

5.2. ACCEPTANCE AND REJECTION OF BID PROPOSALS

The City reserves the right: (i) to accept or reject any or all Bid Proposals in whole or in part; (ii) to waive any technicalities or informalities in Bid Proposals; and (iii) to cancel or postpone this Solicitation at any time if determined to serve the best interests of the City. The City may reject the Bid Proposal of any Bidder in arrears or in default to the City on any contract, debt, or other obligation.

5.3. ACCURATE INFORMATION

The Bidder certifies that all information provided or to be provided to the City is true and correct and may be relied upon by the City in awarding the Contract. Any false and/or misleading information is cause for the City to reject the Bidder's Bid Proposal or to terminate the Contract if awarded to the Bidder. Such rejection or termination shall relieve the City of any direct or consequential damages or costs incurred by the Bidder.

5.4. ADDENDA AND AMENDMENTS

In the event any addenda or amendments are issued to this Solicitation, all the terms and conditions of this Solicitation shall govern and apply unless specifically stated or modified in any such addenda or amendments. Verbal or written statements and/or answers to questions not posted on the City's Procurement Webpage relative to this Solicitation shall not be considered valid or enforceable. It is the responsibility of the Bidder to inquire about and obtain any and all addenda and/or amendments issued, all of which shall be published on the City's Procurement Webpage.

5.5. ALTERNATE BID PROPOSALS

The Bidder is expected to clearly respond to the requirements set forth in this Solicitation. Any and all alternate Bid Proposals for the Services shall be rejected as non-responsive and be removed from consideration.

5.6. BINDING BID PROPOSAL

All Bid Proposals shall remain binding for 180 calendar days following the Acceptance Deadline; Bid Proposals may not be withdrawn at any time within this period. In the event an award is not made during such period, all Bid Proposals shall be automatically extended and remain binding for an additional 180 calendar day period. Bid Proposals shall automatically be renewed until such time as either an award is made or proper notice is given to the City by a Bidder of its intent to withdraw its Bid Proposal. Bid Proposals may only be withdrawn by written notice to the City at least fifteen (15) calendar days prior to the expiration of the then current 180 calendar day period.

5.7. CONFIDENTIALITY

A. The City agrees, to the extent permitted by law and in accordance with the terms set forth in this Solicitation, to hold all confidential information and material belonging to the Bidder in strictest confidence. The Bidder shall specify in writing to the City the information and/or material the Bidder deems to be a trade secret or other confidential information and/or material. Written notification shall also contain the reason such information and/or material is considered to be a trade secret and/or confidential.

B. The Bidder agrees that all knowledge and information it may receive from the City or from its officials, employees or other sources, or by virtue of the performance of Services under and pursuant to the Contract, if awarded the Contract, which are included or referenced in Title 4 of the General Provisions Article of the Annotated Code of Maryland, shall not be directly or indirectly disclosed to any person whatsoever unless authorized to do so by the City Manager. This confidentiality provision shall also apply to any information, activity, or record designated by the City as being "confidential" or "privileged".

5.8. CONTRACT AWARD

A. It is the intent of the City to award the Contract to one (1) Bidder; however, the City reserves the right to award the Contract to multiple Bidders in whole or in part. Award shall be to the Responsible Bidder that submits the Lowest Responsive Bid Proposal. If for any reason, through no fault of the City, the Contract is not executed within thirty (30) days' of formal award, the City may withdraw the award and award to the next Lowest Responsive and Responsible Bidder, or solicit new Bid Proposals.

B. In the event the City receives only one (1) Bid Proposal in response to this Solicitation, the City reserves the right, in its sole discretion, to proceed as a negotiated procurement with the Bidder that submitted the Bid Proposal.

5.9. ERRORS IN BID PROPOSALS

Obvious error(s) in calculations in any Bid Proposal may not be corrected without the prior written consent of the City and may be cause for the Bid Proposal to be deemed non-responsive. If an error is made in an extended price, the unit price will govern.

5.10. INTEREST IN MORE THAN ONE BID PROPOSAL AND COLLUSION

Multiple Bid Proposals submitted in response to this Solicitation by any Bidder under the same or different names shall be rejected as non-responsive. Reasonable grounds for believing that any Bidder has interest in more than one (1) Bid Proposal for this Solicitation, both as the Bidder and as a subcontractor for another Bidder, shall result in the rejection of all Bid Proposals in which the Bidder has interest and disqualify the Bidder from responding to any reissuance of this Solicitation. However, a Person acting only as a subcontractor may be included as a subcontractor for multiple Bidders. The City may reject all Bid Proposals if reasonable cause exists for believing that collusion exists among Bidders.

5.11. LATE BID PROPOSALS

It is the responsibility of the Bidder to ensure the delivery of its Bid Proposal by the

Acceptance Deadline and to the location specified in Section 3.1 (Event E) of this Solicitation. Any and all Bid Proposals delivered or submitted late or to any location other than the designated location shall be rejected as non-responsive. The submission of any Bid Proposal by way of facsimile or e-mail is strictly prohibited; any and all Bid Proposals submitted as such shall be rejected as non-responsive. The City assumes no responsibility for any delays and/or errors in the delivery of a Bid Proposal; postmarking by the Acceptance Deadline shall not substitute for actual receipt. Any and all Bid Proposals submitted not in compliance with any of the provisions of this paragraph shall be rejected as non-responsive.

5.12. MODIFICATIONS TO BID PROPOSALS

The Bidder may only modify its Bid Proposal in accordance with and subject to the following:

A. The City shall consider a modified Bid Proposal as an entirely new Bid Proposal and shall replace the original Bid Proposal, which shall be deemed to be withdrawn and null and void.

B. The modified Bid Proposal shall be subject to all the requirements, specifications and terms and conditions set forth herein.

C. Notwithstanding the provisions with respect to the submission of a Bid Proposal herein, the modified Bid Proposal shall clearly be labeled "Modified Bid Proposal".

5.13. OPTIONAL GOODS AND/OR SERVICES

The City reserves the right to request and evaluate optional goods and/or services which may be in the best interests of the City, and to negotiate the price of such goods and/or services with the successful Bidder or with another Bidder, whichever is determined to be the most advantageous to the City. While pricing for optional goods and/or services may be requested in this Solicitation, the City is under no obligation to consider such optional goods and/or services when selecting the successful Bidder unless otherwise stated.

5.14. SOLICITATION DOCUMENTS

The Bidder is expected to carefully and thoroughly examine all of the Solicitation Documents for accuracy and completeness, and to become familiar with the same. If doubt exists as to the meaning and/or intent in or of any of the Solicitation Documents, the Bidder shall make an inquiry as to such meaning and/or intent. The failure of the Bidder to examine and become familiar with any and all of the Solicitation Documents shall in no way relieve the Bidder of its obligations under the Contract, if awarded to the Bidder. The submission of a Bid Proposal shall be taken as prima facie evidence of compliance with this provision and that the Bidder fully understands everything in the Solicitation Documents.

5.15. SOLICITATION PROTEST

A. Any protest of this Solicitation shall be in writing to the City Attorney. The provisions of COMAR Title 21.01.03.01A(7), State Procurement Regulations, do not apply to municipalities and are not applicable to this Solicitation. Protests of alleged improprieties in this Solicitation shall be filed prior to the Acceptance Deadline.

B. Any written protest shall, at a minimum, include: (i) the name, address, telephone number, and if available, email address of the Person making the protest; (ii) the

Solicitation number and a detailed statement of the legal and factual grounds for the protest, including a description of resulting harm to the Person making the protest; and (iii) any and all copies of supporting exhibits, evidence and/or documents to substantiate the claim.

5.16. USE OF BROKER

The Bidder warrants that no person or selling agency has been employed or retained to solicit or secure the Contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except bona fide employees, or bona fide established commercial or selling agencies maintained by the Bidder for the purpose of securing business. For violation of this provision, the City shall have the right, in its sole discretion: (i) to terminate or suspend the Contract without liability to the City, its officials or employees; or (ii) to deduct from the Contract price or consideration, the full amount of such commission, percentage, brokerage, or contingent fee.

5.17. ACCOUNTING SYSTEM AND AUDIT

A. The Contractor certifies its accounting system conforms to Generally Accepted Accounting Principles (GAAP) and is sufficient to comply with its budgetary and financial obligations under the Contract. In addition, the Contractor acknowledges and agrees to the following:

   I. The Contractor: (i) shall maintain any and all necessary source documentation, accounting records and supporting documentation in such a manner that will provide for a separation between direct and indirect costs; and (ii) shall enforce sufficient internal controls as dictated by GAAP to properly account for expenses incurred under the Contract.

   II. The Contractor: (i) shall allow the City to examine and/or obtain copies of the Contractor's records to determine and verify compliance with the terms and conditions of the Contract; (ii) shall grant the City access to such records at all reasonable times during the Contract term and for a period of five (5) years thereafter; and (iii) shall make such records available for examination and/or to obtain copies by any and all Federal, State and/or County authorities if the Contract is supported to any extent with any funds of the same.

B. The Contractor shall include a similar provision in any and all subcontracts.

5.18. ASSIGNMENT OF THE CONTRACT

The City's rights under the Contract are personal to the Contractor. It is mutually understood and agreed that the Contractor shall not assign, convey, sublet, transfer or otherwise dispose of its Contract or its right, title or interest therein, or its power to execute the Contract, to any other person without the express written consent of the City; however, in no case shall such consent relieve the Contractor from its obligations under the Contract, or change the terms and conditions of the Contract.

5.19. CHANGES IN GOODS AND/OR SERVICES

The City, without invalidating the Contract, may order changes in the goods and/or Services within the general scope of the Contract, consisting of additions, deletions and/or other revisions, and the Contract sum and term shall be adjusted accordingly. Any cost or credit

to the City from a change in Services shall be determined by mutual written agreement between the City and the Contractor. The Contractor shall provide all of the goods and services that may be required to complete the Contract at the price agreed upon. Any alterations of variables to the terms of the Contract shall not be valid or binding upon the City unless made in writing and signed by the City and the Contractor.

5.20. CONTRACT DISPUTES

Any and all disputes arising under the Contract, except under the provisions for termination, which are not disposed of by agreement between the City and the Contractor, shall be decided under procedures A-D listed below. Pending final resolution of a dispute, the Contractor shall proceed diligently with Contract performance. A claim must be in writing for a sum certain and any money requested must be fully supported by all cost and pricing information.

A. All disputes, claims, questions of fact or interpretations of the documents of the Contract not disposed of by agreement or express provision of the Contract arising between the City and the Contractor after performance of the Contract has commenced but before final payment and termination of the Contract, are decided by the City Manager or designee ("City Manager").

B. The City Manager must give the Contractor not less than three (3) working days to submit documentation and written reasons supporting the Contractor's position in the dispute. The City Manager may consider any other information or written submissions from City employees or agents and may conduct an informal, non-record hearing for receipt of testimony, evidence and/or argument. The City Attorney may participate in the hearings to protect the City's interest.

C. The City Manager must render a decision, in writing, stating reasons for such decision and provide copies to the Contractor and the City Attorney. If the decision is mailed to the Contractor, it must be mailed "certified" and dated the date of mailing; otherwise, it must be dated the date of delivery to the Contractor.

D. The City Manager's decision may be submitted to Binding Arbitration by either Party under the auspices of an arbitrator appointed by the American Arbitration Association.

5.21. DISSEMINATION OF DATA

The Contractor shall not release any information related to the Services under the Contract or publish any reports or documents related to the same without the prior written approval of the City. The Contractor shall include a similar provision in all subcontracts.

5.22. EMPLOYMENT AS INDEPENDENT CONTRACTOR

The City and the Contractor recognize and agree: (i) that the Contractor shall act as an independent Contractor to the City; (ii) that the Contract does not create any actual or apparent agency, partnership, franchise, or relationship of employer and employee between the parties; (iii) that neither party shall be entitled to participate in any of the other party's benefits, including without limitation, any health or retirement plans; (iv) that the Contractor shall not be entitled to any remuneration, benefits, or expenses other than as specifically provided for in the Contract; and (v) that the City shall not be liable for any insurance, taxes, or withholding for or on behalf of the Contractor; all such insurance, taxes or withholding, and costs for same, shall be the sole responsibility of the Contractor.

5.23. ETHICS LAWS AND REQUIREMENTS

The Contractor shall comply with the financial disclosure and conflict of interest and lobbying provisions of the City's ethics laws, which may be found on the City's website at: http://www.gaithersburgmd.gov/government/city-code.

5.24. FORCE MAJEURE

The City and the Contractor acknowledge and agree that either party hereto will be relieved of its obligations hereunder in the event and to the extent that the performance of its obligations under the Contract is delayed or prevented by any cause beyond its control, including, without limitation, acts of God, public enemies, war, insurrection, acts or orders of governmental authorities, fire, flood, explosion, or riots ("Force Majeure"). Failure to receive necessary materials and supplies will not excuse performance hereunder unless such failure is itself due to an event of Force Majeure. A party obtaining relief under this provision shall make every reasonable effort to minimize the effects thereof and will promptly resume performance as soon as possible.

5.25. GOVERNING LAW

The Contract shall be construed in accordance with the laws and regulations of the Federal Government, State of Maryland, and the City. For purposes of litigation involving the Contract, exclusive venue and jurisdiction shall be in the Circuit Court of Maryland for Montgomery County, District Court of Maryland for Montgomery County or the United States District Court of Maryland.

5.26. IMMIGRATION REFORM AND CONTROL ACT

The Contractor shall warrant that it does not and shall not hire, recruit or refer for a fee for employment under the Contract, an alien, knowing the alien is an unauthorized alien, and hire any individual without complying with the requirements of the Immigration Reform and Control Act of 1986 ("Act"), including but not limited to any verification and record keeping requirements. The Contractor shall further assure the City that, in accordance with the Act, it does not and will not discriminate against an individual with respect to hiring, or recruitment or referral for a fee, of the individual for employment or the discharging of the individual from employment because of such individual's national origin or in the case of a citizen or intending citizen, because of such individual's citizenship status.

5.27. INCONSISTENT PROVISIONS

A. Notwithstanding any provisions to the contrary in the terms and conditions of any contract supplied by the Contractor, the conditions of this Solicitation and the Contract supersede those terms and conditions in the event of inconsistency.

B. In the event of any inconsistency between any of the provisions of this Solicitation and any of the provisions of the Contract, the provisions of the Contract shall take precedence over and supersede those provisions in the event of any inconsistency.

5.28. INDEMNIFICATION

The Contractor shall indemnify and hold harmless the City, its officials, employees and agents from the following:

A. Any and all direct or indirect damages, costs, claims, actions, suits, judgments or

liens resulting from the negligent act or commission or omission of the Contractor, its employees, agents or subcontractors; and

B. Any and all direct or indirect costs, claims, actions, suits, judgments or liens for damages resulting from the Contract arising from the negligence or omission of the Contractor, its employees, agents or subcontractors. The Contractor shall, upon completion of the Services, provide the City with a Release of Liens from any subcontractor, supplier, material, or other supplier of goods and services to the project.

5.29. <u>LAWS AND REGULATIONS</u>

The Contractor shall comply with any and all applicable federal, state and local laws, codes and regulations with respect to the Services under the Contract.

5.30. <u>NO LIENS</u>

The Contractor shall have no title or interest in any of the goods delivered to the City under this Contract. In no event shall the Contractor encumber any such goods delivered to the City with any lien of any kind or offer such goods as collateral in any transaction whatsoever.

5.31. <u>NO WAIVER</u>

Except as otherwise specifically provided in the Contract, a waiver by either party to the Contract of any breach of any provision of the Contract, or either party's decision not to invoke or enforce any right under the Contract, shall not be deemed a waiver of any right or subsequent breach, and all provisions of the Contract shall remain in force.

5.32. <u>NON-DISCRIMINATION REQUIREMENTS</u>

A. The Contractor acknowledges and agrees that during the term of the Contract it shall:

I. Not discriminate against any employee or applicant for employment because of gender preference, race, color, creed, religion, ancestry, sex, sexual orientation, national origin, affection preference, disability, age, marital status or status with regard to public assistance or as a disabled veteran or veteran of the Vietnam era.

II. Take affirmative action to ensure that applicants and employees are treated without regard to their race, color, creed, religion, ancestry, sex, sexual orientation, national origin, affection preference, gender preference, disability, age, marital status or status with regard to public assistance or as a disabled veteran or veteran of the Vietnam era. Such action shall include but not be limited to the following: employment, upgrade, demotion or transfer; recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

III. In all solicitations for employees, state that all qualified applicants will receive consideration for employment without regard to race, color, creed, religion, ancestry, sex, sexual orientation, national origin, affection preference, gender preference, disability, age, marital status or status with

regard to public assistance or as a disabled veteran or veteran of the Vietnam era. The Contractor agrees to use clauses similar to those above in all contracts and subcontracts. In the event the Contractor fails to comply with the nondiscrimination clauses of the Contract, or fails to include such provisions in all contracts and subcontracts, as hereinabove provided, the Contract may at the sole discretion of the City be declared void AB INITIO, canceled, terminated or suspended in whole or in part with waiver of any recourse by the Contractor against the City or its officials or employees, and the Contractor may be declared ineligible for further contracts with the City.

B. Any employee, applicant for employment, or prospective employee with information concerning any breach of these requirements may communicate such information to City Manager who shall commence a prompt investigation of the alleged violation. Pursuant to such investigation, the Contractor shall permit access to their books, records and accounts. In the event the City Manager concludes, on the basis of such investigation, that the Contractor has failed to comply with these nondiscrimination clauses, the City Manager may invoke the remedies hereinabove set out.

5.33. <u>NONEXCLUSIVE</u>

Nothing in the Contract shall be deemed to act as a bar to the City's solicitation or purchasing of equipment, goods or services from any other company.

5.34. <u>OWNERSHIP OF MATERIALS</u>

Unless otherwise agreed in writing by the City and the Contractor, any work, specifications, information, data, drawings, software and other items produced under the Contract, other than any Contractor Tool, is to be deemed a work-for-hire to the extent permitted by law, and, to the extent not so permitted, shall be assigned to, and shall become, the exclusive property of the City.

5.35. <u>PATENTS</u>

A. Whenever any article, material, appliance, process composition, means or things called for by the specifications ("Materials") under this Solicitation is covered by Letters of Patent, the Contractor shall secure, prior to using or employing such Materials, the assent in writing of the owner or licensee of such Letters of Patent and file the same with the City.

B. The Contractor shall defend, at its own expense, and pay the cost and damages awarded in any action brought against the City based on an allegation that the Materials provided by the Contractor infringe on any patent, copyright, license or trade secret. In the event that an injunction shall be obtained against the City's use of the Materials by reason of infringement of any patent, copyright, license or trade secret, the Contractor shall, at its own expense, procure for the City the right to continue using the Materials or replace or modify the same so that it becomes non-infringing.

5.36. <u>PAYMENT TERMS, TAXES AND INVOICES</u>

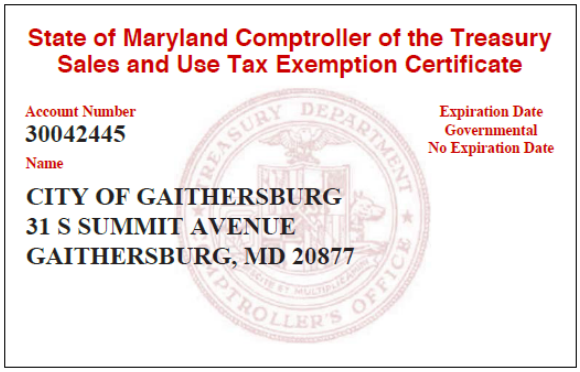
The City shall only pay original proper invoices issued in accordance with the following:

A. Payment Terms

The City's standard terms of payment are net thirty (30) days; however, this does not preclude the Contractor from providing a prompt payment discount for the payment of invoices in less than thirty (30) days. Payments considered past-due may be subject to incurred interest not to exceed one percent (1%) per month.

B. Taxes

The City is exempt from sales and use taxes. The Contractor shall exclude such taxes from all forms of requests for payments issued to the City; the City shall not be liable for or pay or reimburse the Contractor for any such taxes. A copy of the City's Sales and Use Tax Exemption Certificate is provided below.



State of Maryland Comptroller of the Treasury
Sales and Use Tax Exemption Certificate

Account Number
30042445

Expiration Date
Governmental
No Expiration Date

Name
CITY OF GAITHERSBURG
31 S SUMMIT AVENUE
GAITHERSBURG, MD 20877

C. Invoices

Original invoices shall include at a minimum, the Contractor's name, address, telephone and fax numbers, and if applicable, email address and corresponding purchase order number. Invoices shall be submitted to: City of Gaithersburg, Accounts Payable Division, 31 South Summit Avenue, Gaithersburg, Maryland 20877.

5.37. RECORDS

A. The Contractor shall retain any and all records and documents relating to the Services under the Contract for a minimum of five (5) years following payment of the Contractor's final undisputed proper invoice for the complete rendered Services. The Contractor shall make available to the City, State of Maryland and any and all appropriate Federal agencies, all records and documents with respect to any and all matters under the Contract at any time during normal business hours, as often as the City deems necessary, to audit, examine, and make copies, excerpts and/or transcripts of any and all relevant data.

B. The Contractor shall include similar provisions in all subcontracts.

5.38. SUBCONTRACTORS

The Contractor acknowledges and agrees: that if it shall be necessary to hire or subcontract with competent personnel to fulfill its obligations under the Contract, it shall do so at its own expense; and to ensure that any and all work assigned to any subcontractor shall be performed in compliance with all of the terms and conditions of the Contract. Nothing contained in the Contract shall create any contractual relation between any subcontractor and the City.

5.39. SURVIVAL

The representations, warranties and indemnities contained herein shall survive the termination of the Contract.

5.40. TERMINATION

A. Termination for Cause

If through any cause, the Contractor fails to fulfill in a timely and proper manner its obligations under the Contract, or if the Contractor violates any of the provisions of the Contract, the City may upon written notice to the Contractor, terminate the right of the Contractor to proceed under the Contract or with such part or parts of the Contract to which there has been default, and may hold the Contractor liable for any damages caused the City by reason of such default and termination, if the default is not corrected within 15 days' notice to cure. In the event of such termination, any completed Services performed by the Contractor under the Contract shall, at the option of the City, become its property and the Contractor shall be entitled to receive equitable compensation for any work completed to the satisfaction of the City. The Contractor, however, shall not thereby be relieved of liability to the City for damages sustained by the City by reason of any breach of the Contract by the Contractor, and the City may withhold any payments to the Contractor for the purpose of setoff until such time as the amount of damages due the City from the Contractor is determined. The Contractor shall not be responsible for damages under this article solely for reasons of delay if the delay is due to causes beyond its control and without its fault or negligence, but this shall not prevent the City from terminating the Contract for such delay.

B. Termination for Convenience

The City may, upon written notice and without cause, terminate the Contract in whole or in part at any time for its convenience. In such instance, payment shall be made to the Contractor for the reasonable costs of the work performed through the date of termination. Termination costs do not include lost profits, consequential damages, delay damages, unabsorbed or under-absorbed overhead of the Contractor or its subcontractors or suppliers. Failure of the Contractor to include a termination for convenience clause into its subcontracts and material purchase orders shall not result in any liability to the City for lost profits in conjunction with a termination for convenience.

The Contractor expressly waives any damages, delay damages, or indirect costs which may arise from the City's election to terminate the Contract in whole or in part for its convenience.

C. Termination for Non-Appropriation of Funds

The City shall not be obligated to the Contract for any future fiscal year until funds are appropriated for each such future fiscal year. In the event funding appropriation is not approved, the City may, upon written notice, terminate the Contract in whole or in part and without penalty or expense to the City. The effect of such action shall terminate the Contract on the last day of the fiscal year for which appropriations were made.

~ END OF SECTION 5 ~

SECTION 6: Bidder Qualifications and Special Terms and Conditions

6.1. BIDDER QUALIFICATIONS

Notwithstanding any of the qualifications specified in any other section of this Solicitation, the Bidder shall meet the following minimum qualifications in order to be eligible to submit a Bid Proposal in response to this Solicitation:

A. The Bidder shall have a minimum of eight (8) years' experience providing services similar to those under this Solicitation.

B. The Bidder shall be able to fulfill its obligations under the terms and conditions of this Solicitation and the Contract.

6.2. BONDS

The Bidder shall furnish to the City a bid bond, a payment bond and a performance bond, all of which are hereinafter referred to collectively as ("Bonds"), in accordance with and subject to the following:

A. The Bidder shall submit with its Bid Proposal an executed bid bond in an amount equal to three percent (3%) of the Bidder's total Bid Proposal Price. A certified copy of the Power of Attorney of the attorney-in-fact executing the bid bond shall be attached and be certified by manual signature.

B. The Contractor shall, within ten (10) business days following receipt of a notice of intent to award issued by the City, furnish to the City an executed payment bond in an amount equal to one hundred percent (100%) of the total Contract Sum. A certified copy of the Power of Attorney of the attorney-in-fact executing the payment bond shall be attached, be certified by manual signature and bear the same date at the performance bond.

C. The Contractor shall, within ten (10) business days following receipt of a notice of intent to award issued by the City, furnish to the City an executed performance bond in an amount equal to one hundred percent (100%) of the total Contract Sum. A certified copy of the Power of Attorney of the attorney-in-fact executing the performance bond shall be attached, be certified by manual signature and bear the same date at the payment bond.

D. The Bonds shall executed in accordance with and subject to the following:

I. The bonding entity shall be registered and in good standing in the State of Maryland in accordance with the State of Maryland Code of Regulations Title 21, State Procurement Regulations. This provision shall apply to any and all co-sureties utilized by the bonding entity in execution of the Bonds.

II. The bonding entity shall maintain a rating of A-minus (A-) or better with A.M. Best. This provision shall apply to any and all co-sureties utilized by the bonding entity in execution of the Bonds.

III. The bonding entity shall consent to exclusive venue and jurisdiction in the Circuit Court for Montgomery County, Maryland. This provision shall apply

to any and all co-sureties utilized by the bonding entity in execution of the Bonds.

IV. The date of the Bonds shall not exceed the date of the Contract or subsequent thereto.

V. The Bonds shall contain provisions which are similar to the following:

- ***GOVERNING LAW.*** *This Bond shall be governed by, and construed in accordance with the laws of the State of Maryland without regard to its conflict of laws provisions.*

- ***NO THIRD PARTY BENEFICIARIES.*** *The Surety provides this Bond for the sole and exclusive benefit of the City and, if applicable, any dual oblige designated by attached rider, together with their heirs, administrators, executors, successors and assigns. No other party, person or entity shall have any rights against this Surety.*

- ***VENUE.*** *In the event any legal action shall be filed upon this Bond, venue shall lie exclusively in the Circuit Court for Montgomery County, Maryland.*

- ***WAIVER OF NOTICE.*** *The Surety waives notice of any modifications to the Contract, including changes in the Contract Time, the Contract Sum, the amount of liquidated damages, or the Work and/or Services performed.*

6.3. <u>DEMOLITION AND STABILIZATION BOND WAIVER</u>

The Contractor shall, within ten (10) business days following receipt of a notice of intent to award issued by the City, submit a request to the City's Planning and Code Department for a waiver of the Demolition and Stabilization Bond.

6.4. <u>INSURANCE</u>

The Contractor shall obtain and maintain in force, at its expense, policies of insurance in accordance with and subject to the following:

A. During the term of the Contract, the Contractor shall maintain:

I. Automobile Liability Insurance for all non-City-owned vehicles in an amount no less than One Million Dollars ($1,000,000.00);

II. Commercial General Liability Insurance in an amount no less than One Million Dollars ($1,000,000.00);

III. Professional Liability Insurance in an amount no less than One Million Dollars ($1,000,000.00); and

IV. Workers' Compensation Insurance in an amount no less than One Million Dollars ($1,000,000.00).

B. For a period of two years following the date of Substantial Completion, the Contractor shall maintain Completed Operations Liability Insurance in an amount no less than One Million Dollars ($1,000,000.00).

C. The Contractor shall provide the City with certificates of insurance in accordance with the following:

I. Within ten (10) calendar days following receipt of a notice of intent to award issued by the City, the Contractor shall provide the Project Manager with a certificate(s) of insurance, which evidences the policies described in Paragraph A hereinabove, and names the City as additional insured with respect to the Commercial General Liability Insurance only.

II. Within ten (10) calendar days following the date of Substantial Completion, the Contractor shall provide the City with a certificate of insurance that evidences the Completed Operations Liability Insurance.

III. All certificates of insurance shall contain a provision that requires the Contractor's insurers to provide the City with a written notice of any cancellation or adverse material change in the insurance and that such cancellation or adverse material change shall not be effective with respect to the City for thirty (30) days after such written notice is given.

IV. The Contractor hereby acknowledges and agrees that its failure to provide the City with a certificate of insurance for any of the said policies and/or the failure by the City to demand the delivery of any said certificate shall not operate or be deemed to operate as a waiver of the insurance and associated endorsements required under this provision, and the Contractor shall hold the City harmless from any liability arising as a result of any such failure(s).

D. Any and all subcontractors hired by the Contractor to provide any engineering services under the Contract shall have and maintain in force Professional Liability Insurance in an amount no less than One Million Dollars ($1,000,000.00).

6.5. <u>NOTICE TO PROCEED AND COMPLETION OF SERVICES</u>

Within ten (10) calendar days following the effective date of the Contract, the City will issue the Contractor a written notice to proceed, after which the Contractor shall reach Substantial Completion within two hundred ten (210) calendar days (herein referred to as "Completion Date"), with an additional thirty (30) calendar days for Project Closeout.

6.6. <u>LIQUIDATED DAMAGES</u>

Time is of the essence with respect to the Services under the Contract. In the event the Contractor fails to complete the Services by the Completion Date, for reasons which the Contractor is solely responsible, the Contractor will be required to pay to the City, as liquidated damages and not as a penalty, the sum of Two hundred Fifty Dollars and Zero Cents ($250.00) per day for each working day beyond the Completion Date for which the Contractor fails to complete the Services.

6.7. <u>SCHEDULE OF SERVICES</u>

The Services shall be performed: Monday through Friday between the hours of 7:00 a.m. and 7:00 p.m. ET; and on weekends and holidays between the hours of 9:00 a.m. and 6:00 p.m. ET. The Contractor may set its own schedule provided the Services are completed by the Completion Date and do not conflict with the City's noise ordinance, which is included in Appendix A attached hereto.

6.8. CONTRACTOR PERSONNEL

The Contractor shall utilize personnel listed in their Bid Proposal. Substitution of key personnel shall only be permitted with the prior written permission of the City.

6.9. SUPERVISION

The Contractor shall assign a full time supervisor who shall have a minimum of five (5) years' experience in providing services similar to the Services and be present at the Site at all times during construction. The Contractor shall also provide project management structure, noting key personnel.

6.10. SITE SAFETY AND USE OF PREMISES

While performing the Services under the Contract, the Contractor shall:

A. At all times enforce suitable rules and provide any and all guards, signs, fences, dust barriers and/or protective devices required for the safe completion the Services.

B. Confine operations at the site to the areas permitted under the Contract. Any and all Portions of the site, beyond the areas on which work is indicated, shall not to be disturbed.

C. Conform to any and all site rules and regulations affecting the work while engaged in construction.

D. Keep planned egresses outside the construction zones clear and available to the public during normal facility operation hours. Do not use these areas for parking or the storage of materials; parking areas and areas for the storage of materials shall be limited to those areas within the construction zone.

E. Not unreasonably encumber the site with materials or equipment. Confine any and all storage of materials, and locations of storage sheds, to the areas within the construction zone. If any additional storage is necessary, obtain and pay for such storage off site.

6.11. FIELD VERIFICATION AND IDENTIFICATION

A. The Contractor shall verify all field conditions and dimensions within five (5) days of mobilizing construction site activity. The Contractor shall report any discrepancies and/or conflicts to the Project Manager. In the event that field conditions differ significantly from the Contract documents, a revision will be issued by the City with sketches and/or revised Contract documents.

B. Should the Contractor require a topographic survey in order submit bid, it shall be the responsibility of the Contractor to provide it.

6.12. CONSTRUCTION COORDINATION

The Contractor shall submit a project schedule, using the Critical Path Method, to the Project Manager, in Microsoft Project (or equivalent) and in PDF formats, and get written approval, prior to starting the work. The Contractor shall prepare and submit a Daily Report to the Project Manager, which shall include the following:

- Name of project;
- Project number;
- Date of the report;
- Weather conditions;
- Manpower status on each type of work being performed, by building;
- Overtime worked and/or planned;
- Work progress;
- Any and all environmental problems and/or corrections; and
- Other information such as: special events or occurrences; accidents; recommendations; suggestions; visitors; major equipment or materials received; tests; inspections; equipment start-up and check-out; and occupancy.
- References to Project Specifications

In addition, the Contractor shall take any and all necessary action required to specifically alert the Project Manager to any and all items which could result a claim.

6.13. PERMITS AND INSPECTION

The Contractor shall obtain any and all necessary permits, licenses, and/or inspections to properly execute the work under the Contract. The fee for any permits, which are both required and issued by the City, will be waived. The Contractor shall give all notices and comply with any and all laws, ordinances, rules, and/or lawful orders. If the Contractor observes that any portion of the Contract is at variance with any applicable law, statute, and/or building code, the Contractor shall promptly notify the City in writing and necessary changes will be accomplished by modification.

The List of Permits anticipated shall include, but are not limited to:

- Approved ESC plan
- Demolition Permit
- NOI for disturbance over One (1) acre to MDE, in the name of the City of Gaithersburg

6.14. PROJECT CLOSEOUT

Upon written notification by the Contractor that the work is complete, the City will conduct a final inspection of all work. When the City determines that the work has been satisfactorily completed, and the Contract requirements are fully satisfied (including warranty documents, final inspections and maintenance manuals), the City will issue the Contractor a project acceptance letter (hereinafter referred to as "Project Acceptance") and process the final payment.

6.15. WARRANTIES

The Contractor shall provide a written warranty for a minimum of two (2) years to cover any and all defects in the Services and/or workmanship. All warranties shall start from the date of the Project Acceptance.

6.16. SHOP AND AS-BUILT DRAWINGS

The Contractor shall provide Shop Drawings as needed and As-Built Drawings to the Project Manager as part of the project closing documents:

A. All Drawings shall be done in compliance with COMAR requirements;
B. All Shop Drawings shall be provided in PDF format; and
C. As-Built Drawings shall be submitted in AutoCAD 2010 and PDF formats.

6.17. CHANGE ORDER OVERHEAD AND PROFIT

A. All Change Orders shall be submitted using AIA G701 forms, with all items broken out by line item.

B. For any and all change orders in work under the Contract ("Change Order"), the percentages for overhead, profit, and commission shall be negotiable according to the nature, extent, and complexity of the work involved, but in no case shall such percentages exceed the following ceilings:

	Overhead	Profit	Commission
To the Contractor on work performed by its own forces.	10%	5%	–
To the Contractor on work performed by other than its own forces.	–	–	5%
To a subcontractor on work performed by its own forces.	10%	5%	–

C. For work performed under a Change Order by its own forces:

I. The Contractor and its subcontractors shall be allowed the actual amount of materials and the total amount of labor for same.

II. The overhead percentages shall be considered to include indirect costs including, but not limited to, field and office supervisors and assistants, incidental job burdens, small tools, and general overhead allocations, for same.

D. Neither the Contractor nor its subcontractors shall be allowed overhead or commission on the overhead, profit, and/or commission received by any of its subcontractors.

E. Equitable adjustments for deleted work shall include credits, limited to the same percentages for overhead, profit, and commission in paragraph I hereinabove.

F. For a Change Order that includes both an increase and decrease in the amount of the Contract, the percentages for overhead, profit, and commission shall only be allowed on the amount of the net change.

G. Neither the Contractor nor its subcontractors shall be allowed any percentages for overhead, profit, and/or commission on work under a Change Order which is

necessary due to the negligence and/or poor workmanship of the Contractor and/or its subcontractors.

6.18. REQUISITIONS FOR PAYMENT

A. All Requisitions for Payment shall be submitted using AIA G702 and AIA G703 forms.

   I. Contractor to provide an updated CPM schedule with each requisition, in Electronic format, in Microsoft Project (or equivalent) and in PDF formats.

B. Contractor to submit Requisition for Payment by the 25th of each month.

   I. Requisition shall be processed by the City of Gaithersburg within fifteen (15) working days.

~ END OF SECTION 7 ~

SECTION 7: Project Information and Scope of Work

7.1. OVERVIEW

The project site is located at 10901 Darnestown Road in Gaithersburg, Maryland 20878. The facility was originally used by the Department of Defense (DOD) as a control center for NIKE missiles that included radar tracking facilities, barracks, and associated support facilities from 1955 to 1975. The CPSC then used the site for laboratory testing and safety evaluations of consumer products from 1975 to 2011. The site has been unoccupied since May of 2011.

The existing site consists of seven (7) existing buildings – A, B, C, D, E, F, G, H (and associated structures), and an existing guard house. The site also includes paved roads, parking lots, sidewalks, open lawns, scattered small and large shade trees. The perimeter of the property has a fence as well as a security gate at the front entrance to the site.

7.2. PROJECT GOALS

The goal of the project is to:

- Demolish selected existing buildings on the former CPSC site, including slabs and footings.
- Demolish selected existing site conditions, including (but not limited to) parking lot paving, lighting, flagpoles, sidewalks and stairs, HVAC units and associated pads.
- Abate and remove any hazardous materials as identified in previous Site and Environmental Assessments. See attached reports.
- Creation of new site plan complete with Metes and Bounds.
- Creation of new Record Plat.
- Cap off all existing utilities, which shall remain in place.
    - I. Contractor must maintain continued service to remain to Building I.
- Creation of new site utility plan, in cooperation with local Utility company(ies).
- Rough grade resulting areas where existing buildings and site conditions have been affected.
- Complete all work as scheduled, and turn site over to City of Gaithersburg for future project(s).

7.3. SCOPE OF WORK

The Services include reviewing all general conditions, construction documents and specifications for developing a comprehensive understanding of the work involved. Drawings and Specifications take precedent of the general scope description; Bidder shall refer to plans and specifications for detailed work scope. The work under the general scope will include, but not be limited to, the following items:

A. Pre-Demolition Activities

I. Erosion and Sediment Control Plan

II. MDE NOI Permit for Activities Associated with Earth Disturbance

III. Dust Mitigation Plan

a. Contractor to submit a plan showing the following requirements:

i. Dust mitigation

ii. Truck haul routes

iii. Identification of potential hazardous materials.

IV. Submit for All Applicable Permits

a. See Appendix A for Building Demolition Procedures and Permit Application.

V. Project Photos

a. Exterior and Interior

i. Gives general feel of space.

ii. Exterior photos to be taken in four (4) cardinal directions.

B. <u>Demolition</u>

I. Hazardous Material Abatement and Removal.

a. Abate and remove all hazardous materials prior to Demolition as required and described in attached Site Assessment report (Appendix B).

II. Demolish Existing Buildings at Consumer Product Safety Commission Site

a. Submit Demolition Plan to the Project Manager identifying all items to be removed, including buildings, paving, landscaping, and appurtenances.

b. <u>Building A:</u> Approximately 4,066 square feet. Former Flammability Lab & Office Building. Uses included chemical labs, offices, laundry area, testing area, sample rooms, boiler room, and burn room.

c. <u>Building B:</u> Approximately 2,320 square feet. Former CPSC Administration Building. Uses included offices, lunch room, copy room, conference rooms and restrooms.

d. <u>Building C:</u> Approximately 6,503 square feet. Remove associated Shed structure. Former Electrical/Mechanical Laboratory & Office Building. Uses included offices, toy test lab, mechanical test lab, calibration room, boiler room, and cafeteria seating.

e. <u>Building E:</u> Approximately 1,438 square feet. Former Machine Shop. Uses included general shop area, welding area, and general storage.

f. Building F: Approximately 508 square feet. Former Fireworks Laboratory. Uses included storage.

g. Building G: Approximately 1,413 square feet. Former Combustion Products and Appliances Laboratory, Mechanical Test and Fire Test. Areas included general test area, burn room, hot pack room, tunnel, and storage room.

h. Building H: Approximately 3,300 square feet. Former Chemistry Laboratory & Office Building. Uses included general storage, chemical storage, wet lab, chemical labs, offices, mass spectrometry lab, conductive couple plasma labs, and electrical rooms.

i. Entry Guard House: Approximately 50 square feet. Remove associated concrete pads and foundation. Existing entry fence, automatic sliding security gate, and gate controlling equipment to remain in place.

III. Demolish Existing Site Conditions

a. All parking areas **except** for parking lot adjacent to Buildings A & B. See Appendix C, Drawings 9.4.1 and 9.4.2 for additional information.

b. All drive aisles **except** for drive lane leading to existing Warehouse (a.k.a. Building I). See Appendix C, Drawings 9.4.1 and 9.4.2 for additional information.

c. Tank adjacent to Building E may still be in place. Contractor to take necessary precautions if such a condition exists. See Appendix C, Drawings 9.4.1 and 9.4.2 for additional information.

d. All HVAC units and associated pads, **except** for Building I, at time of work.

e. All electrical equipment, **except** for electrical switchgear and associated building structure for Building I, at time of work.

i. All transformers to be removed and coordinated with local utility company.

f. Demolish and cap all building utilities ten (10) feet from building perimeter. Coordination with the local utility companies must take place to cancel services for all utilities being demolished and capped. City of Gaithersburg will provide account numbers for all know meters within the scope of work.

g. Existing flagpole and associated sidewalk and foundation. See Appendix C, Drawings 9.4.1 and 9.4.2 for additional information.

C. Post Demolition (Project Close-Out)

I. Rough grade project site as required.

II. Create existing site utility plan in cooperation with local utility company(ies), and submit to City of Gaithersburg.

III. Provide pre- and post-demolition photos of Former Building locations on CD, organized by Building in folders.

IV. Provide Metes and Bounds survey

   i. Survey Description: See Appendix C, Drawings 9.4.1 and 9.4.2 for additional information.

V. Provide Record Plat.

VI. Review project with City of Gaithersburg officials and turn over to City upon completion.

All construction shall be completed in accordance with and as specified in the Drawings and Specifications as referenced in Section 9.

~ END OF SECTION 8 ~

SECTION 8: Attachments and Appendixes

8.1. ATTACHMENTS

The following documents and forms are attached hereto as **Attachments**:

- Affidavit of Qualification to Bid
- Bid Proposal Price Sheet
- Bid Proposal Submission Certification
- Bidder Reference Data Sheet
- Conflict of Interest Certification
- Litigation and Lien Information
- Statement of Qualifications/Questionnaire

8.2. APPENDIX A – PROJECT FORMS AND INFORMATION

The following documents are attached hereto as **Appendix A**:

- City of Gaithersburg Planning and Code Administration:
  - I. Building Demolition Procedures
  - II. Demolition Permit Application
- Excerpt from Gaithersburg City Code - Section 15-8 "Disturbing the Peace"
- Specifications

8.3. APPENDIX B – SITE ASSESSMENT REPORT

The following documents are attached hereto as **Appendix B**:

- Phase II ESA (Triad Engineering)

8.4. APPENDIX C – SITE PHOTOGRAPHS

The following documents are attached hereto as **Appendix C**:

- Photographs – Existing Site (Taken 21 August 2014, Sanders Designs)

8.5. APPENDIX D - DRAWINGS

The following documents may be obtained from the Procurement Webpage:

- 9.5.1 Existing Conditions Plan (KCI Technologies, Drawing C-0.01)
- 9.5.2 Demolition Plan (KCI Technologies, Drawing C-0.02)
- 9.5.3 Site Plan – Building Locations A-G (1979)
- 9.5.4 Site Plan – Buildings E, F, & G (1979)
- 9.5.5 Site Plan – Buildings A-G (1979)
- 9.5.6 Site & Utility Plan (WSSC, 1997)
- 9.5.7 Site & Utility Plan (2003)
- 9.5.8 Floor Plan – Building A (1975)
- 9.5.9 Floor Plan – Building B (1975)
- 9.5.10 Floor Plan – Building C (1975)
- 9.5.11 Floor Plan – Building E (1977)
- 9.5.12 Floor Plan – Building F (1977)
- 9.5.13 Floor Plan – Building G (1977)
- 9.5.14 Floor Plan – Building H (1977)

ATTACHMENTS

City of Gaithersburg

Affidavit of Qualification to Bid

Solicitation No. _____

Please complete this form in its entirety and include it with your Bid Proposal. For the purpose of completing this form, "entity" means an individual, sole proprietor, partnership, corporation, limited liability corporation (LLC), company, or association.

*Does not apply to individuals or sole proprietors – indicate with "N/A"

I HEREBY AFFIRM THAT:

1. I am the _____ (*Title*) and the duly authorized representative of the entity _____ (*Name of Entity*) and that I possess the legal authority to make this affidavit on behalf of myself and the entity for which I am acting.

*2. The entity _____ is either a Maryland corporation or is a foreign corporation properly registered with the Maryland State Department of Assessments and Taxation, in compliance with the State of Maryland Code of Regulations, Title 21, State Procurement Regulations.

3. Except as described in Paragraph five (5) below, neither I nor the above entity, nor to the best of my knowledge, any of its officers, directors, or partners, or any of its employees directly involved in obtaining contracts with the State of Maryland or any municipality, county, bi-county, or multi-county agency, or subdivision of the State of Maryland have been convicted of, or have pleaded nolo contendere to a charge of, or have, during the course of an official investigation or other proceeding, admitted in writing or under oath, acts of omissions which constitute bribery, attempted bribery, or conspiracy to bribe, whether or not in furtherance of obtaining a contract with a public body, under the provisions Md. Code Ann., State Finance and Procurement Article, §16-202 (1995 Repl. Vol.) and Article 27 of the Annotated Code of Maryland or under the laws of any local, state or the federal government (conduct prior to July 2, 1977 is not required to be reported).

4. List any conviction, plea, or admission described in paragraph three (3) above, with the date, court, official, or administrative body; the individuals involved and their position with the entity; and the sentence or disposition, if any. Otherwise, state "none" as appropriate.

_____

_____

5. Neither I nor the above entity, nor to the best of my knowledge an officer, partner, controlling stockholder or principal of the Bidder, or any other person substantially involved in the Bidder's contracting activities has: (1) been convicted under the laws of the State of Maryland, another state or the United States of: (i) a criminal offense incident to obtaining, attempting to obtain, or performing a public or private contract, except as provided in Section 16-202 of the State Finance and Procurement Article of the Annotated Code of Maryland; or (ii) fraud, embezzlement, theft, forgery, falsification or destruction of records, or receiving stolen property; (2) been convicted of a criminal violation of an antitrust statute of the State of Maryland, another state or the United States; (3) been convicted of a violation of the Racketeer Influenced and Corrupt Organization Act, or the Mail Fraud Act, for acts in connection with the submission of bids for public or private contracts; (4) been convicted of a violation of Section 14-308 of the State Finance and Procurement Article of the Annotated Code of Maryland; (5) been convicted of a conspiracy to private contract; (4) been convicted of a violation of

Section 14-308 of the State Finance and Procurement Article of the Annotated Code of Maryland; (5) been convicted of a conspiracy to commit any act or omission that would constitute grounds for conviction under any of the laws or statutes described herein; (6) been found civilly liable under an antitrust statute of the State of Maryland, another state or the United States for acts or omissions in connection with the submission of bids for public or private contracts.

6. Bidder hereby declares that this Bid Proposal is made without any connection or collusion with any person, entity or corporation making a Bid Proposal for the same work; that pursuant to this affidavit; that the attached specifications and any drawings referred to herein have been carefully examined and are understood; that careful examination has been made as is necessary to become informed as to the character and extent of the work required; and, that if this Bid Proposal is accepted, this Bidder will contract to do, for the price stated in the Bid Proposal, all of the work described in the specifications, drawings and contract conditions.

7. I acknowledge that this affidavit is to be furnished to the City Manager or designee for the City of Gaithersburg, Maryland. I further acknowledge that, if the representations set forth in this affidavit are not true and correct, the City of Gaithersburg may terminate any contract awarded and take any other appropriate action.

I do solemnly declare and affirm under the penalties of perjury that the contents of this affidavit are true and correct.

_____ _____

Signature Witness

_____

Date

NOTARY ATTESTATION

State of: _____

County of: _____

I hereby certify that on this _____ day of _____, 20_____, before me the subscriber, a Notary Public in and for the State of _____ and County aforesaid, personally appeared _____, known to me to be the person whose name is subscribed to this instrument and acknowledged that same was executed for the purposes contained therein.

Witness my hand and Notarial seal: _____

My Commission expires: _____

Notary Public: _____

Printed Name

City of Gaithersburg

Bid Proposal Price Sheet

Solicitation No. 2015-016

The Bidder shall complete this form in its entirety and return it with its Bid Proposal. Bidder is encouraged to review the solicitation document in its entirety to understand project requirements and work scope prior to submitting bid proposal.

Base Bid Proposal

CSI #	Division	Division Total Cost ($)
00 00 00	Procurement and Contracting Requirements	
01 00 00	General Conditions (to include Engineering Services)	
02 00 00	Existing Conditions	
31 00 00	Earth Work	
32 00 00	Exterior	
	Others (Specify)	
	Profit and Overhead	
	TOTAL BASE BID COSTS	

The Contractor hereby declares that it has carefully examined the solicitation and Drawings (collectively the "Contract Documents"). Also, the Contractor has, to its satisfaction, examined the locality of the proposed work and agrees to furnish all labor, tools, materials, machinery, equipment, and other means of construction called for in the manner provided in the Drawings for the prices shown on the next page(s) and as evidenced by Contractor's signature on the last page thereof. The Contractor shall acknowledge, on the bid form, receipt of all addenda issued prior to bid deadline.

Addendum #	Addendum Date of Issue

Exceptions

Any EXCEPTIONS to specifications, drawings, terms and conditions or any other documents forming part of this inquiry must be clearly defined and set forth in bidder's quotation. To be considered responsive to this inquiry, the bidder must certify to either 1 or 2 below. Include one of the following certifications in the quotation:

1. Quotation is in exact compliance with specifications, drawings, terms and conditions and other requirements of this inquiry with NO EXCEPTIONS."

>>>>>>>OR<<<<<<<

2. Quotation is in exact compliance with the specifications, drawings terms and conditions and other requirements of this inquiry with the EXCEPTIONS listed below."

Item #	Exception / Clarification

By my signature I hereby testify that I am a duly authorized representative of the firm and that I have fully entered, examined and reviewed the items and totals represented on this quotation sheet and they are accurate and complete.

Name of Bidder: _____

Signature: _____ Date: _____

Print Name: _____ Title: _____

City of Gaithersburg

Bid Proposal Submission Certification

Solicitation No. _____

Please complete this form in its entirety and include it with your Bid Proposal. For the purpose of completing this form, "entity" means an individual, sole proprietor, partnership, corporation, limited liability corporation (LLC), company, or association.

Name of Entity: _____

Contact Person: _____

Street Address: _____

_____

City, State & Zip Code: _____, _____ _____

Telephone Numbers: (P) _____ (F) _____

BID PROPOSAL SUBMISSION CERTIFICATION

The response to Solicitation No. _____ as submitted includes this Bid Proposal Submission Certification Form and the Affidavit of Qualification to Bid Form, Conflict of Interest Certification Form, and Litigation and Lien Information Form. I, the undersigned, hereby attest to the truth and completeness of the information and responses provided and certify that my entity has met the minimum selection criteria as outlined in the Solicitation document.

_____ _____

Signature Witness

_____

Date

NOTARY ATTESTATION

State of: _____

County of: _____

I hereby certify that on this _____ day of _____, 20_____, before me the subscriber, a Notary Public in and for the State of _____ and County aforesaid, personally appeared _____, known to me to be the person whose name is subscribed to this instrument and acknowledged that same was executed for the purposes contained therein.

Witness my hand and Notarial seal: _____

My Commission expires: _____

Notary Public: _____

Printed Name

City of Gaithersburg

Bidder Reference Data Sheet

Solicitation No. 2015-016

Provide company name, address, contact person, telephone number, and appropriate information on the product(s) and/or service(s) used for three (3) or more projects with requirements similar to those included in this solicitation. References may be checked at the City of Gaithersburg's discretion for bid evaluation purposes.

Company Name	
Address (incl. Zip)	
Contact Person	
Phone Number	
Product(s) and/or Service(s) Used	

Company Name	
Address (incl. Zip)	
Contact Person	
Phone Number	
Product(s) and/or Service(s) Used	

Company Name	
Address (incl. Zip)	
Contact Person	
Phone Number	
Product(s) and/or Service(s) Used	

City of Gaithersburg

Conflict of Interest Certification

Solicitation No. _____

Please complete this form in its entirety and include it with your Bid Proposal. For the purpose of completing this form, "entity" means an individual, sole proprietor, partnership, corporation, limited liability corporation (LLC), company, or association.

*Does not apply to individuals or sole proprietors – indicate with "N/A"

Name of Entity: _____

* Federal ID No: _____

Contact Person: _____

Street Address: _____

_____

City, State & Zip Code: _____, _____ _____

Telephone Numbers: (P) _____ (F) _____

(P) _____ (C) _____

Email Address: _____

Email Address: _____

CONFLICT OF INTEREST CERTIFICATION

I HEREBY CERTIFY, on behalf of _____ that no
Name of Entity
employee, agent or elected official of the City of Gaithersburg, or member of a commission, board or corporation controlled or appointed by the Mayor and Council of the City of Gaithersburg has received or has been promised directly or indirectly, any financial benefit by way of fee, commission, finder's fee, or in any other manner, remuneration directly or indirectly related to this contract. Upon request by the City Manager or designee, or other authorized agent, as a prerequisite to payment pursuant to the terms of a contract awarded pursuant to this Bid Proposal submission, will furnish to the City, under oath, answers to any interrogatories and comply with any request to review documents related to a possible conflict of interest as herein embodied.

I HEREBY CERTIFY, on behalf of _____ that no
Name of Entity
employee or agent of _____ is a member, employee,
Name of Entity
or elected official of the City of Gaithersburg of any agency, commission, or board of the City of Gaithersburg or is the spouse or any other relative of any of the foregoing. If unable to so certify, the details of any such relationship with the City of Gaithersburg are as follows:

_____

_____

_____

I do solemnly declare and affirm under the penalties of perjury that the contents of this affidavit are true and correct.

_____ _____

Signature Witness

_____

Date

NOTARY ATTESTATION

State of: _____

County of: _____

I hereby certify that on this _____ day of _____, 20_____, before me the subscriber, a Notary Public in and for the State of _____ and County aforesaid, personally appeared _____, known to me to be the person whose name is subscribed to this instrument and acknowledged that same was executed for the purposes contained therein.

Witness my hand and Notarial seal: _____

My Commission expires: _____

Notary Public: _____

Printed Name

City of Gaithersburg

Litigation and Lien Information

Solicitation No. _____

Please complete this form in its entirety and include it with your Bid Proposal. For the purpose of completing this form, "entity" means an individual, sole proprietor, partnership, corporation, limited liability corporation (LLC), company, or association.

Name of Entity: _____

Street Address: _____

_____

City, State & Zip Code: _____, _____ _____

Telephone Numbers: (P) _____ (F) _____

LITIGATION INFORMATION

Is your entity currently involved in any litigation or had a litigation claim(s) within the previous twenty-four (24) month period?

☐ Yes / ☐ No

If yes, please provide a detailed list including case number, jurisdiction, status and brief summary of such litigation.

Case Number	Jurisdiction	Status	Summary

LIENS

Does your entity have any outstanding mechanics liens?

☐ Yes / ☐ No

If yes, please explain: _____

_____

Does your entity have any outstanding tax liens?

☐ Yes / ☐ No:

If yes, please explain: _____

_____

_____ _____ _____

Signature Title Date

_____

Printed Name

City of Gaithersburg

Statement of Qualifications / Questionnaire

Solicitation No. 2015-016

Furnish the following information about your firm's qualifications & experience. Provide detailed description information that will be used in the evaluation of this bid. Use the space provided to answer all questions. Attach additional sheets as necessary.

Permanent Main Office Address: _____

_____

Phone Number: (____) _____ Fax Number: (____) _____

Contact Person: _____

Type of Organization (Select all Applicable):

____ Individually-Owned ____ Partnership ____ Corporation ____ Joint Venture

____ Private ____ Public ____ Profit ____ Non-Profit

1. Number of years the firm has been in business under the present name: _____
2. Number of years of experience of the firm in providing similar services as specified in this solicitation:

   _____

3. Describe the **general background and services** provided by the firm. Attach additional sheets as needed:

   _____

   _____

   _____

   _____

   _____

   _____

   _____

4. **Qualifications:** Furnish any other relevant written information which would indicate the firm's capability to perform the services contained in this solicitation. Attach additional sheets as needed:

_____

_____

_____

_____

_____

_____

_____

5. **Experience:** Describe the previous experience of the firm with similar accounts services as specified in this solicitation. State locations, dates of operation, and the types and size of facility. Attach additional sheets as needed:

_____

_____

_____

_____

_____

_____

_____

APPENDIX A

City of Gaithersburg - 31 South Summit Avenue - Gaithersburg, Maryland 20877 - Telephone: (301) 258-6330 - Fax: (301) 258-6336

BUILDING DEMOLITION PROCEDURES

GENERAL REQUIREMENTS:

1. Permits are required to construct, enlarge, alter, or demolish a building within the City of Gaithersburg per Chapter 5 of *The City Code*.

2. The applicant is required to submit the following documents prior to the issuance of each demolition permit by the City of Gaithersburg:

a. A demolition permit application, including permit fee payment. Refer to current fee schedule.

b. A site plan showing location of the building to be demolished.

c. Submit disconnect letters from all applicable utility companies certifying that their services have been disconnected from the subject building, i.e. electricity (PEPCO), gas (Washington Gas), water & sewer (WSSC), telephone (Verizon), and cable (multiple providers), in advance of the proposed work.

d. Post a bond for the total cost of demolition of the building and stabilization of the site.

e. Submit a digital photographic record of the building (building elevations to include all four (4) sides) and premises prior to proposed demolition.

f. Obtain and submit a hazardous materials survey and statement of remediation (if found by the survey) from the building and site. (e.g. asbestos, lead, mercury, PCB's)

- Provide written verification by a licensed HVACR mechanic/contractor (in the State of Maryland) that all fluids and refrigerants have been lawfully processed, disposed of, and/or removed from the building and site.

- Provide verification that all pressurized cylinders (existing fire suppression equipment, oxygen, carbon dioxide, etc.) must be properly removed by professional service personnel before demolition begins.

3. Provide documentation from a licensed pest removal company that property has been inspected for rodents and other pests, and that remediation, if needed, has been performed.

4. All City sediment control requirements and codes must be met and will be discussed with the contractors at the required pre-construction meeting prior to commencement of work.

- State of Maryland regulations require a sediment control plan for disturbances of 5,000 square feet or more.

5. In addition to these requirements, buildings over 50-years-old must complete the requirements specified on page 2 of the *Building Demolition Procedures* (next page).

City of Gaithersburg - 31 South Summit Avenue - Gaithersburg, Maryland 20877 - Telephone: (301) 258-6330 - Fax: (301) 258-6336

BUILDING DEMOLITION PROCEDURES

FOR BUILDINGS OVER 50-YEARS-OLD:

1. Prior to the issuance of each Demolition Permit by the City of Gaithersburg, structures or buildings over 50-years-old will be reviewed by the Historic District Commission for potential historic or architectural significance. The criteria utilized by the Historic District Commission to determine potential historic or architectural significance are specified in §24-226 of *The City Code*:

(1) *Historical and cultural significance.* The historic resource:

a. Has character, interest or value as part of the development, heritage or cultural characteristics of the city, county, state or nation;

b. Is the site of a significant historic event;

c. Is identified with a person or a group of persons who influenced society; or

d. Exemplifies the cultural, economic, social, political or historic heritage of the city and its communities.

(2) *Architectural and design significance.* The historic resource:

a. Embodies the distinctive characteristics of a type, period or method of construction;

b. Represents the work of a master;

c. Possesses high artistic values;

d. Represents a significant and distinguishable entity whose components may lack individual distinction;

e. Represents an established and familiar visual feature of the neighborhood, community or city due to its singular physical characteristic or landscape; or

f. Embodies design, setting, materials, workmanship and ambience to the city's sense of time, place and historic development.

2. Where the Historic District Commission determines that any site, group of sites, structure, or object is undergoing active consideration as a historic district, historic site, or historic resource, or has the reasonable probability of being so designated or has been so designated, it may direct the City Manager to withhold issuance of any permit to demolish, grade, or substantially alter the exterior features of any such site, structure, or object. The City Manager shall withhold such permit for a maximum of six (6) months from the date of the directive of the Commission allowing the site, group of sites, structure, or object to go through the Historic Designation Application process.

3. Where the Historic District Commission determines that any structure or building over 50-years-old does not meet the criteria for historic or architectural significance, as specified in §24-226 of *The City Code*, the Historic District Commission will not direct the City Manager to withhold issuance of the demolition permit and the demolition permit will be issued without further review.

Gaithersburg
A CHARACTER COUNTS! CITY

PLANNING AND CODE ADMINISTRATION

City of Gaithersburg · 31 South Summit Avenue · Gaithersburg, Maryland 20877 · Telephone: (301) 258-6330 · Fax: (301) 258-6336
plancode@gaithersburgmd.gov · www.gaithersburgmd.gov

DEMOLITION PERMIT APPLICATION

All information must be complete to initiate processing of application

SUBJECT PROPERTY

Street Address _____

APPLICANT

Business Name _____

Primary Contact _____

Street Address _____ Suite No. _____

City _____ State _____ Zip Code _____

Telephone Numbers: Work _____ Cell _____ E-mail Address _____

OWNER

Business Name _____

Primary Contact _____

Street Address _____ Suite No. _____

City _____ State _____ Zip Code _____

Telephone Numbers: Work _____ Cell _____ E-mail Address _____

DEVELOPER

Business Name _____

Primary Contact _____

Street Address _____ Suite No. _____

City _____ State _____ Zip Code _____

Telephone Numbers: Work _____ Cell _____ E-mail Address _____

CONTRACTOR

Business Name _____ License *(copy required)* _____

Primary Contact _____

Street Address _____ Suite No. _____

City _____ State _____ Zip Code _____

Telephone Numbers: Work _____ Cell _____ E-mail Address _____

ELECTRICAL CONTRACTOR

Business Name _____ City License No. _____

Primary Contact _____

Street Address _____ Suite No. _____

City _____ State _____ Zip Code _____

Telephone Numbers: Work _____ Cell _____ E-mail Address _____

WORK DESCRIPTION

PERMIT TYPE (check one only)

☐ **Commercial Entire Building** Stories Above Grade ____ Stories Below Grade _____

☐ This Building is Over 50 years Old *(See Demolition Procedures Document on City Web Site)*

☐ **Commercial Partial Building** Stories Above Grade _____ Stories Below Grade ____ Building Height _____

Use Group _____ Number of Impacted Stories _____

☐ **Residential Entire Building** Stories Above Grade ____ Stories Below Grade ____

☐ This Building is Over 50 years Old *(See Demolition Procedures Document on City Web Site)*

SQUARE FOOTAGE and COST

Building and/or Space _____

Cost of Demolition *(do not leave blank)* _____

Applicant's Signature _____ **Date** _____

Sec. 15-7. Urinating or defecating in public.

It shall be unlawful for any person to urinate or defecate on or about any public place, way, building, structure or park, or on or about any privately owned retail business establishment or parking area adjacent thereto. This section shall not apply to such conduct in any enclosed restroom or similar facility clearly designated to the public for such activity.
(Ord. No. O-5-95, 6-5-95)

Sec. 15-8. Disturbing the peace.

It shall be unlawful for any person or business entity to operate or permit the operation of noise producing instruments, devices, or equipment in such a manner or at such times that the peace and quiet of the residents of the city is disturbed. The following actions or conduct shall constitute public nuisances which disturb the peace, and are prohibited:

(a) Except in the case of emergency repairs and other unique circumstances specifically approved by the city manager. The operation of lawnmowers, power tools, bulldozers, construction or building equipment, or other power driven labor-saving devices between the hours of 9:00 p.m. and 7:00 a.m. on weekdays, or between the hours of 9:00 p.m. and 9:00 a.m. on weekends and federal holidays, which are audible beyond the nearest common property line.

(b) The playing or operation of radios, stereos, television sets or similar devices between the hours of 10:00 p.m. and 8:00 a.m. which are audible beyond the confines of the dwelling unit within which such sound is played or relayed; or if such devices are placed or operated in an outdoor area, which are audible beyond the nearest common property line at the hours specified herein.

(c) Noise discharged from any motor vehicle or motorcycle, or the operation of the same in such a manner as to disturb the peace and quiet of residents of the city. This prohibition shall include engine, exhaust, or tire noise, music and improper use of the horn.

(Ord. No. O-5-95, 6-5-95)

Sec. 15-8.1. Special events, permit required.

"Special events" are defined as outdoor events or happenings organized, hosted or produced by any person, business, organization or corporation which will generate or invite public participation and/or spectators resulting in a significant impact on public streets, sidewalks, public lands, public facilities, adjacent private properties and/or require city support, for a particular and limited purpose and time, including, but not limited to, foot races, fundraisers, weddings, reunions, concerts, parties, parades, carnivals, cultural events, food fairs, shows, exhibitions, circuses, farmers markets, flea markets, auctions and fairs.

It shall be unlawful for any person, group, business, organization or corporation to host, promote or conduct outdoor special event activities, as defined above, on private property within the city without first obtaining a special events permit from the city manager or

SECTION 00 0110

TABLE OF CONTENTS

PROCUREMENT AND CONTRACTING REQUIREMENTS

1.01 DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS

A. 00 0110 - Table of Contents

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A. 01 1000 - Summary
B. 01 3000 - Administrative Requirements
C. 01 3553 - Security Procedures
D. 01 4000 - Quality Requirements
E. 01 4216 - Definitions
F. 01 5000 - Temporary Facilities and Controls
G. 01 7300 - Execution
H. 01 7419 - Construction Waste Management and Disposal
I. 01 7800 - Closeout Submittals

2.02 DIVISION 02 -- EXISTING CONDITIONS

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B. 02 4119 - Selective Demolition

2.03 DIVISION 31 -- EARTHWORK

A. 31 1000 - Site Clearing
B. 31 2000 - Earth Moving

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SECTION 01 1000
SUMMARY

PART 1 GENERAL

1.01 PROJECT

A. Project Name: City of Gaithersburg Demolition of Former Consumer Product Safety Commission Site.

B. Owner's Name: City of Gaithersburg.

C. The Project Scope of Work consists of the demolition and hazardous material abatement of seven (7) existing buildings - A, B, C, E, F, G, H (and associated structures), and the existing guard house. Building “I” and the associated structure housing electrical connections shall remain.. The project also includes the removal of existing paving (in selected areas), and the capping off of all existing utilities. Contractors to review and coordinate actual scope of work with Invitation for Bid requirements.

1.02 CONTRACT DESCRIPTION

A. Contract Type: A single prime contract based on a Stipulated Price.

1.03 OWNER OCCUPANCY

A. Owner intends to continue to occupy adjacent portions of the existing building during the entire construction period.

B. Owner intends to occupy the Project upon Substantial Completion.

C. Owner intends to utilize the site upon Substantial Completion.

D. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.

E. Schedule the Work to accommodate Owner occupancy.

1.04 CONTRACTOR USE OF SITE

A. Provide access to and from site as required by law and by Owner:
   1. Do not obstruct roadways, sidewalks, or other public ways without permit.

B. Existing building spaces may not be used for storage.

C. Time Restrictions:
   1. Limit conduct of especially noisy exterior work to the hours of 7:00 a.m. to 7:00 p.m. Monday through Friday, and from 8:00 a.m. to 6:00 p.m. on Weekends and Holidays. Scheduled work hours shall start at 12:00 noon on Sunday. .

D. Utility Outages and Shutdown:
   1. Prevent accidental disruption of utility services to other facilities.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 3000
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Site mobilization meeting.

B. Progress meetings.

C. Construction progress schedule.

D. Progress photographs.

E. Submittals for review, information, and project closeout.

F. Submittal procedures.

1.02 RELATED REQUIREMENTS

A. Section 01 7000 - Execution and Closeout Requirements: Additional coordination requirements.

B. Section 01 7800 - Closeout Submittals: Project record documents.

1.03 REFERENCE STANDARDS

A. AIA G810 - Transmittal Letter; 2001.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 SITE MOBILIZATION MEETING

A. Owner will schedule a meeting at the Project site prior to Contractor occupancy.

B. Attendance Required:
1. Contractor.
2. Owner.
3. Architect.
4. Contractor's Superintendent.
5. Major Subcontractors.

C. Agenda:
1. Use of premises by Owner and Contractor.
2. Owner's requirements .
3. Construction facilities and controls provided by Owner.
4. Temporary utilities provided by Owner.
5. Security and housekeeping procedures.
6. Schedules.
7. Application for payment procedures.
8. Review of proposed submittals schedule.
9. Procedures for testing.
10. Procedures for maintaining record documents.
11. Requirements for start-up of equipment.
12. Inspection and acceptance of equipment put into service during construction period.

D. Record minutes and distribute copies within two business days after meeting to participants, with electronic PDF (portable document format) file copies to Architect, Owner, participants, and those affected by decisions made.

3.02 PROGRESS MEETINGS

A. Schedule and administer meetings throughout progress of the Work at maximum monthly intervals.

B. Make arrangements for meetings, prepare agenda with electronic PDF (portable document format) file copies for participants two business days in advance of meeting, preside at meetings.

C. Attendance Required: Job superintendent, major Subcontractors and suppliers, Owner, Architect, as appropriate to agenda topics for each meeting.

D. Agenda:
   1. Review minutes of previous meetings.
   2. Review of Work progress.
   3. Field observations, problems, and decisions.
   4. Identification of problems that impede, or will impede, planned progress.
   5. Review of submittals schedule and status of submittals.
   6. Maintenance of progress schedule.
   7. Corrective measures to regain projected schedules.
   8. Planned progress during succeeding work period.
   9. Maintenance of quality and work standards.
   10. Effect of proposed changes on progress schedule and coordination.
   11. Other business relating to Work.

E. Record minutes and distribute copies within two days after meeting to participants, with electronic PDF (portable document format) file copies to Architect, Owner, participants, and those affected by decisions made.

3.03 CONSTRUCTION PROGRESS SCHEDULE

A. Within 10 business days after date of the Agreement, submit preliminary schedule defining planned operations for the first 60 days of Work, with a general outline for remainder of Work.

B. If preliminary schedule requires revision after review, submit revised schedule within 10 business days.

C. Within 10 business days after review of preliminary schedule, submit draft of proposed complete schedule for review.
   1. Include written certification that major contractors have reviewed and accepted proposed schedule.

D. Within 10 business days after joint review, submit complete schedule.

E. Submit updated schedule with each Application for Payment.

3.04 PHOTOGRAPHS - BEFORE AND AFTER

A. Submit photographs [prior to demolition. Exterior photos to depict (4) cardinal directions. Interior photos to depict general feel of main spaces.

B. Take photographs as evidence of existing project conditions as follows:
   1. Exterior views: each side of each building to be demolished..

C. Views:
   1. Provide non-aerial photographs from four cardinal views at each specified time, until Date of Substantial Completion.
   2. Consult with Architect for instructions on views required.
   3. Provide factual presentation.
   4. Provide correct exposure and focus, high resolution and sharpness, maximum depth of field, and minimum distortion.

D. Digital Photographs: 24 bit color, minimum resolution of 1024 by 768, in JPG format; provide files unaltered by photo editing software.
   1. Delivery Medium: Via email.
   2. File Naming: Include project identification, date and time of view, and view identification.
   3. PDF File: Assemble all photos into printable pages in PDF format, with 2 to 3 photos per page, each photo labeled with file name; one PDF file per submittal.

4. Photo CD(s): Provide 1 copy including all photos cumulative to date and PDF file(s), with files organized in separate folders by submittal date.
   a. Submit as part of closeout procedures.

3.05 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
   1. Product data.
   2. Samples for selection.
   3. Samples for verification.

B. Submit to Architect for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.

C. Samples will be reviewed only for aesthetic, color, or finish selection.

D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 7800 - CLOSEOUT SUBMITTALS.

3.06 SUBMITTALS FOR INFORMATION

A. When the following are specified in individual sections, submit them for information:
   1. Design data.
   2. Certificates.
   3. Test reports.
   4. Inspection reports.
   5. Manufacturer's instructions.
   6. Manufacturer's field reports.
   7. Other types indicated.

B. Submit for Architect's knowledge as contract administrator or for Owner. No action will be taken.

3.07 SUBMITTALS FOR PROJECT CLOSEOUT

A. When the following are specified in individual sections, submit them at project closeout:
   1. Project record documents.
   2. Operation and maintenance data.
   3. Warranties.
   4. Bonds.
   5. Other types as indicated.

B. Submit for Owner's benefit during and after project completion.

3.08 NUMBER OF COPIES OF SUBMITTALS

A. Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

B. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect.
   1. After review, produce duplicates.
   2. Retained samples will not be returned to Contractor unless specifically so stated.

3.09 SUBMITTAL PROCEDURES

A. Transmittal Form: AIA G810.

B. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.

C. Identify Project, Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.

D. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.

E. Deliver electronic submittals to Architect at business e-mail address.

F. Deliver samples submittals to Architect at business address.

G. Schedule submittals to expedite the Project, and coordinate submission of related items.

H. For each submittal for review, allow 15 business days excluding delivery time to and from the Contractor.

I. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.

J. Provide space for Contractor and Architect review stamps.

K. When revised for resubmission, identify all changes made since previous submission.

L. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.

M. Submittals not requested will not be recognized or processed.

END OF SECTION

SECTION 31 2000

EARTH MOVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Excavating and filling for rough grading the Site.
2. Excavating for buildings and structures.
3. Excavating and backfilling trenches for utilities and pits for buried utility structures.

1.2 DEFINITIONS

A. Backfill: Soil material used to fill an excavation.

1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
2. Final Backfill: Backfill placed over initial backfill to fill a trench.

B. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.

C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.

D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.

E. Drainage Course: Aggregate layer supporting the slab-on-grade that also minimizes upward capillary flow of pore water.

F. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.

1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Architect. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
2. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Architect. Unauthorized excavation, as well as remedial work directed by Architect, shall be without additional compensation.

G. Fill: Soil materials used to raise existing grades.

H. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.

I. Subbase Course: Aggregate layer placed between the subgrade and base course for hot-mix asphalt pavement, or aggregate layer placed between the subgrade and a cement concrete pavement or a cement concrete or hot-mix asphalt walk.

J. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, or topsoil materials.

K. Utilities: On-site underground pipes, conduits, ducts, and cables as well as underground services within buildings.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct preexcavation conference at Project site.

1.4 INFORMATIONAL SUBMITTALS

A. Material test reports.

1.5 FIELD CONDITIONS

A. Utility Locator Service: Notify utility locator service for area where Project is located before beginning earth-moving operations.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.

B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D, or a combination of these groups; free of rock or gravel larger than 3 inches (75 mm in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.

1. Liquid Limit: Less than 40.
2. Plasticity Index: Less than 10.

C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487], or a combination of these groups.

1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.

D. Subbase Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940/D 2940M; with at least 90 percent passing a 1-1/2-inch (37.5-mm) sieve and not more than 12 percent passing a No. 200 (0.075-mm) sieve.

E. Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 294/D 2940M 0; with at least 95 percent passing a 1-1/2-inch (37.5-mm) sieve and not more than 8 percent passing a No. 200 (0.075-mm) sieve.

F. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940/D 2940M; with at least 90 percent passing a 1-1/2-inch (37.5-mm) sieve and not more than 12 percent passing a No. 200 (0.075-mm) sieve.

G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940/D 2940M; except with 100 percent passing a 1-inch (25-mm) sieve and not more than 8 percent passing a No. 200 (0.075-mm) sieve.

H. Drainage Course: Narrowly graded mixture of [washed]crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch (37.5-mm) sieve and zero to 5 percent passing a No. 8 (2.36-mm) sieve.

2.2 ACCESSORIES

A. Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, 6 inches (150 mm) wide and 4 mils (0.1 mm) thick, continuously inscribed with a description of the utility; colored to comply with local practice or requirements of authorities having jurisdiction.

B. Detectable Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, a minimum of 6 inches (150 mm) wide and 4 mils (0.1 mm) thick, continuously inscribed with a description of the utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches (750 mm) deep; colored to comply with local practice or requirements of authorities having jurisdiction.

PART 3 - EXECUTION

3.1 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth-moving operations.

B. Protect and maintain erosion and sedimentation controls during earth-moving operations.

C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

3.2 EXCAVATION, GENERAL

A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.

1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.

2. Excavation for Underground Tanks, Basins, and Mechanical or Electrical Utility Structures: Excavate to elevations and dimensions indicated within a tolerance of plus or

minus 1 inch (25 mm). Do not disturb bottom of excavations intended as bearing surfaces.

3. Excavate all foundation walls and structures for the pre designated buildings that are to be demolished. Use mechanical equipment as necessary to safely and properly remove the limits and bounds of the structure.

4. Excavate all utility services and mechanical/electrical systems 10 feet from the perimeter of the building that is to be demolished. Locate, identify, disconnect, and seal or cap off utilities serving buildings and structures to be demolished. Cut off pipe or conduit a minimum of 24 inches (610 mm) below grade. Cap, valve, or plug and seal remaining portion of pipe or conduit 10 feet from perimeter of the building.

3.3 UNAUTHORIZED EXCAVATION

A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi (17.2 MPa), may be used when approved by Architect.

1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Architect.

3.4 STORAGE OF SOIL MATERIALS

A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.

1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.5 UTILITY TRENCH BACKFILL

A. Place backfill on subgrades free of mud, frost, snow, or ice.

B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.

C. Trenches under Footings: Backfill trenches excavated under footings and within 18 inches (450 mm) of bottom of footings with satisfactory soil; fill with concrete to elevation of bottom of footings.

D. Initial Backfill: Place and compact initial backfill of subbase material, free of particles larger than 1 inch (25 mm in any dimension, to a height of 12 inches (300 mm) over the pipe or conduit.

1. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.

E. Final Backfill: Place and compact final backfill of satisfactory soil to final subgrade elevation.

F. Warning Tape: Install warning tape directly above utilities, 12 inches (300 mm) below finished grade, except 6 inches (150 mm) below subgrade under pavements and slabs.

3.6 SOIL FILL

A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.

B. Place and compact fill material in layers to required elevations as follows:

1. Under grass and planted areas, use satisfactory soil material.
2. Under walks and pavements, use satisfactory soil material.
3. Under steps and ramps, use engineered fill.
4. Under building slabs, use engineered fill.
5. Under footings and foundations, use engineered fill.

3.7 SOIL MOISTURE CONTROL

A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.

1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.8 COMPACTION OF SOIL BACKFILLS AND FILLS

A. Place backfill and fill soil materials in layers not more than 8 inches (200 mm) in loose depth for material compacted by heavy compaction equipment and not more than 4 inches (100 mm) in loose depth for material compacted by hand-operated tampers.

B. Place backfill and fill soil materials evenly on all sides of structures to required elevations and uniformly along the full length of each structure.

C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D 698:

1. Under structures, building slabs, steps, and pavements, scarify and recompact top 12 inches (300 mm) of existing subgrade and each layer of backfill or fill soil material at 95 percent.
2. Under walkways, scarify and recompact top 6 inches (150 mm) below subgrade and compact each layer of backfill or fill soil material at 92 percent.
3. Under turf or unpaved areas, scarify and recompact top 6 inches (150 mm) below subgrade and compact each layer of backfill or fill soil material at 85 percent.
4. For utility trenches, compact each layer of initial and final backfill soil material at 85 percent.

3.9 GRADING

A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to elevations required to achieve indicated finish elevations, within the following subgrade tolerances:

1. Turf or Unpaved Areas: Plus or minus 1 inch (25 mm).
2. Walks: Plus or minus 1 inch (25 mm).
3. Pavements: Plus or minus 1/2 inch (13 mm).

C. Grading inside Building Lines: Finish subgrade to a tolerance of 1/2 inch (13 mm) when tested with a 10-foot (3-m) straightedge.

3.10 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a qualified special inspector to perform inspections:

B. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.

C. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.

D. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Architect.

E. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.11 PROTECTION

A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.

B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.

C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.

1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.12 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION 312000

SECTION 31 1000

SITE CLEARING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Protecting existing vegetation to remain.
2. Removing existing vegetation.
3. Clearing and grubbing.
4. Stripping and stockpiling topsoil.
5. Removing above- and below-grade site improvements.
6. Disconnecting, capping, or sealing site utilities.
7. Temporary erosion and sedimentation control.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site

1.3 MATERIAL OWNERSHIP

A. Except for materials indicated to be stockpiled or otherwise remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.4 FIELD CONDITIONS

A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
2. Provide alternate routes around closed or obstructed trafficways if required by Owner or authorities having jurisdiction.

B. Utility Locator Service: Notify utility locator service for area where Project is located before site clearing.

C. Do not commence site clearing operations until temporary erosion- and sedimentation-control and plant-protection measures are in place.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Section 312000 "Earth Moving."

1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.

PART 3 - EXECUTION

3.1 PREPARATION

A. Protect and maintain benchmarks and survey control points from disturbance during construction.

B. Protect existing site improvements to remain from damage during construction.

1. Restore damaged improvements to their original condition, as acceptable to Owner.

3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of authorities having jurisdiction.

B. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.

C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.

D. Remove erosion and sedimentation controls, and restore and stabilize areas disturbed during removal.

3.3 TREE AND PLANT PROTECTION

A. General: Protect trees and plants remaining on-site that are not part of the overall demolition.

B. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by Architect.

3.4 EXISTING UTILITIES

A. Locate, identify, disconnect, and seal or cap utilities indicated to be removed or abandoned in place ten feet from the perimeter of the building.

1. Arrange with utility companies to shut off indicated utilities.

B. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others, unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify Architect not less than two days in advance of proposed utility interruptions.
2. Do not proceed with utility interruptions without Architect's written permission.

C. Removal of underground utilities is included in earthwork sections; in applicable fire suppression, plumbing, HVAC, electrical, communications, electronic safety and security, and utilities sections; and in Section 024116 "Structure Demolition" and Section 024119 "Selective Demolition."

3.5 CLEARING AND GRUBBING

A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.

1. Grind down stumps and remove roots larger than 3 inches (75 mm) in diameter, obstructions, and debris to a depth of 18 inches (450 mm) below exposed subgrade.
2. Use only hand methods or air spade for grubbing within protection zones.

B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.

1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches (200 mm), and compact each layer to a density equal to adjacent original ground.

3.6 TOPSOIL STRIPPING

A. Remove sod and grass before stripping topsoil.

B. Strip topsoil to depth of 6 inches (150 mm) in a manner to prevent intermingling with underlying subsoil or other waste materials.

C. Stockpile topsoil away from edge of excavations without intermixing with subsoil or other materials. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.

3.7 SITE IMPROVEMENTS

A. Remove existing above- and below-grade improvements as indicated and necessary to facilitate new construction.

3.8 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.

B. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials, and transport them to recycling facilities. Do not interfere with other Project work.

3.9 MAINTENANCE

A. Contractor shall maintain new grass growth through three mowing cycles of sod/seeding. There shall be 95% grass coverage/growth over all disturbed grass. Reseed, mulch and water until growth is established to 95% grass coverage.

END OF SECTION 311000

SECTION 02 4119

SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolition and removal of selected portions of building or structure.
2. Demolition and removal of selected site elements.
3. Salvage of existing items to be reused or recycled.

1.2 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.

1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.3 PREINSTALLATION MEETINGS

A. Predemolition Conference: Conduct conference at Project site.

B. Contractor to perform required demo survey for proposed limits of works to follow City of Gaithersburg requirements for disturbance. Contractor to provide a sediment & erosion control plan approved by the City of Gaithersburg.

1.4 INFORMATIONAL SUBMITTALS

A. Engineering Survey: Submit boundary survey of site. Submit sediment & erosion control plan to City for approval and final topographic survey at completion of project.

B. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, and dust control. Indicate proposed locations and construction of barriers.

C. Schedule of selective demolition activities with starting and ending dates for each activity.

D. Predemolition photographs or video of exterior views of the building and floor interior of each demolished building. Post demolition photographs or video of each building on site is to be recorded as well by the Contractor. All photographs or video to be submitted on CD by Contractor at completion of project.

1.5 CLOSEOUT SUBMITTALS

A. Inventory of items that have been removed and salvaged.

1.6 QUALITY ASSURANCE

A. Refrigerant Recovery Technician Qualifications: Certified by an EPA-approved certification program.

B. Asbestos: Certified by an MDE/EPA approved certification program.

C. Lead Paint: Certified by an MDE/EPA approved certification program.

1.7 FIELD CONDITIONS

A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.

B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

D. Hazardous Materials are to be encountered in the Work. See report by Triad Engineering dated 1/8/15 on Lead Paint Inspection Report and the Asbestos Report for proper removal during demolition.

E. Storage or sale of removed items or materials on-site is not permitted.

F. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.

   1. Maintain fire-protection facilities in service during selective demolition operations.

G. Arrange selective demolition schedule so as not to interfere with Owner's operations.

1.8 WARRANTY

A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials and using approved contractors so as not to void existing warranties.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.

C. See report by Triad Engineering dated 1-8-15 for details on hazardous materials on site.

D. Inventory and record the condition of items to be removed and salvaged.

3.2 PREPARATION

A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

1. Comply with requirements for access and protection specified in Division 01 Section "Temporary Facilities and Controls."

3.3 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.

B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.

1. Owner will arrange to shut off indicated services/systems when requested by Contractor.
2. Arrange to shut off utilities with utility companies.
3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
4. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.

    a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
    b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
    c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
    d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.

e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.

3.4 PROTECTION

A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.

B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

C. Remove temporary barricades and protections where hazards no longer exist.

3.5 SELECTIVE DEMOLITION

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
4. Maintain fire watch during and for at least hours after flame-cutting operations.
5. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
6. Dispose of demolished items and materials promptly. Comply with requirements in Section 017419 "Construction Waste Management and Disposal."

B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.6 CLEANING

A. Remove demolition waste materials from Project site [and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.

1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
4. Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."

B. Burning: Do not burn demolished materials.

C. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119

SECTION 02 4116

STRUCTURE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolition and removal of buildings and site improvements.
2. Abandoning in-place and removing below-grade construction.
3. Disconnecting, capping or sealing, and abandoning in-place site utilities.
4. Salvaging items for reuse by Owner.

1.2 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.

1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.3 PREINSTALLATION MEETINGS

A. Predemolition Conference: Conduct conference at Project site.

1.4 INFORMATIONAL SUBMITTALS

A. Engineering Survey: Submit engineering survey of condition of building.

B. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, environmental protection, dust control and, for noise control. Indicate proposed locations and construction of barriers.

1. Adjacent Buildings: Detail special measures proposed to protect adjacent buildings to remain including means of egress from those buildings.

C. Schedule of building demolition activities with starting and ending dates for each activity.

D. Predemolition photographs or video.

1.5 CLOSEOUT SUBMITTALS

A. Inventory of items that have been removed and salvaged.

1.6 QUALITY ASSURANCE

A. Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program.

1.7 FIELD CONDITIONS

A. Buildings to be demolished will be vacated and their use discontinued before start of the Work.

B. Buildings immediately adjacent to demolition area will be occupied. Conduct building demolition so operations of occupied buildings will not be disrupted.

1. Provide not less than 72 hours' notice of activities that will affect operations of adjacent occupied buildings.
2. Maintain access to existing walkways, exits, and other facilities used by occupants of adjacent buildings.

    a. Do not close or obstruct walkways, exits, or other facilities used by occupants of adjacent buildings without written permission from authorities having jurisdiction.

C. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

D. Hazardous Materials are to be encountered in the Work. See report by Triad Engineering dated 1/8/15 on Lead Paint Inspection Report and the Asbestos Report for proper removal during demolition.

E. On-site storage or sale of removed items or materials is not permitted.

F. Arrange demolition schedule so as not to interfere with Owner's on-site operations.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ASSE A10.6 and NFPA 241.

2.2 SOIL MATERIALS

A. Satisfactory Soils: Comply with requirements in Section 312000 "Earth Moving."

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped 10’ from the face of building before starting demolition operations.

B. Perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during building demolition operations.

C. Inventory and record the condition of items to be removed and salvaged.

3.2 PREPARATION

A. Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction.

3.3 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Utilities to be Disconnected: Locate, identify, disconnect, and seal or cap off utilities serving buildings and structures to be demolished.

1. Owner will arrange to shut off utilities when requested by Contractor.
2. Arrange to shut off utilities with utility companies.
3. If removal, relocation, or abandonment of utility services will affect adjacent occupied buildings, then provide temporary utilities that bypass buildings and structures to be demolished and that maintain continuity of service to other buildings and structures.
4. Cut off pipe or conduit a minimum of 24 inches (610 mm) below grade. Cap, valve, or plug and seal remaining portion of pipe or conduit 10 feet from perimeter of the building.
5. Do not start demolition work until utility disconnecting and sealing have been completed and verified in writing.

3.4 PROTECTION

A. Existing Facilities: Protect adjacent walkways, loading docks, building entries, and other building facilities during demolition operations. Maintain exits from existing buildings.

B. Temporary Shoring: Provide and maintain interior and exterior shoring, bracing, or structural support to preserve stability and prevent unexpected movement or collapse of construction being demolished.

C. Existing Utilities to Remain: Maintain utility services to remain and protect from damage during demolition operations. Do not interrupt existing utilities serving adjacent occupied or operating facilities unless authorized in writing by Owner and authorities having jurisdiction.

D. Temporary Protection: Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction and as indicated.

1. Protect adjacent buildings and facilities from damage due to demolition activities.
2. Protect existing site improvements, appurtenances, and landscaping to remain.
3. Erect a plainly visible fence around drip line of individual trees or around perimeter drip line of groups of trees to remain.
4. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
5. Provide protection to ensure safe passage of people around building demolition area and to and from occupied portions of adjacent buildings and structures.
6. Protect walls, windows, roofs, and other adjacent exterior construction that are to remain and that are exposed to building demolition operations.
7. Erect and maintain dustproof partitions and temporary enclosures to limit dust, noise, and dirt migration to occupied portions of adjacent buildings.

E. Remove temporary barriers and protections where hazards no longer exist. Where open excavations or other hazardous conditions remain, leave temporary barriers and protections in place.

3.5 DEMOLITION

A. General: Demolish indicated buildings and site improvements completely. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Do not use cutting torches until work area is cleared of flammable materials. Maintain portable fire-suppression devices during flame-cutting operations.
2. Maintain adequate ventilation when using cutting torches.
3. Locate building demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.

B. Site Access and Temporary Controls: Conduct building demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

1. Do not close or obstruct streets, walks, walkways, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed trafficways if required by authorities having jurisdiction.
2. Use water mist and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations.

C. Explosives: Use of explosives is not permitted.

D. Proceed with demolition of structural framing members systematically, from higher to lower level. Complete building demolition operations above each floor or tier before disturbing supporting members on the next lower level.

E. Remove debris from elevated portions of the building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.

F. Salvage: Items to be removed and salvaged are indicated on drawings and by the owner.

G. Demolish foundation walls and ensure complete removal of all foundation structures for the proposed building to be demolished.

1. Remove below-grade construction, including basements, foundation walls, and footings, completely.

H. Existing Utilities: Disconnect and cap existing utilities and below-grade utility structures 10 feet from the face of the building before starting demolition operations.

I. Below-Grade Areas: Completely fill below-grade areas and voids resulting from building demolition operations with satisfactory soil according to backfill requirements in Section 312000 "Earth Moving."

J. Site Grading: Uniformly rough grade area of demolished construction to a smooth surface, free from irregular surface changes. Provide a smooth transition between adjacent existing grades and new grades.

K. Promptly repair damage to adjacent buildings caused by demolition operations.

3.6 CLEANING

A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction

B. Do not burn demolished materials.

C. Clean adjacent structures and improvements of dust, dirt, and debris caused by building demolition operations. Return adjacent areas to condition existing before building demolition operations began.

END OF SECTION 024116

SECTION 01 7800
CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Project Record Documents.

B. Final Site Survey.

C. Record Plat.

D. Photographs.

1.02 RELATED REQUIREMENTS

A. Section 01 3000 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.

B. Section 01 7300 - Execution: Execution of Project Scope of Work.

C. Individual Product Sections: Warranties required for specific products or Work.

1.03 SUBMITTALS

A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:
   1. Drawings.
   2. Addenda.
   3. Change Orders and other modifications to the Contract.
   4. Reviewed shop drawings, product data, and samples.

B. Ensure entries are complete and accurate, enabling future reference by Owner.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress.

E. Record Drawings : Legibly mark each item to record actual construction including:
   1. Measured locations of utilities and appurtenances concealed, referenced to visible and accessible features of the site.
   2. Field changes of dimension and detail.
   3. Details not on original Contract drawings.

END OF SECTION

SECTION 01 7419

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for the following:

1. Salvaging nonhazardous demolition waste.
2. Recycling nonhazardous demolition waste.
3. Disposing of nonhazardous demolition waste.

B. Related Requirements:

1. Section 024116 "Structure Demolition" for disposition of waste resulting from demolition of buildings, structures, and site improvements.
2. Section 024119 "Selective Demolition" for disposition of waste resulting from partial demolition of buildings, structures, and site improvements.
3. Section 311000 "Site Clearing" for disposition of waste resulting from site clearing and removal of above- and below-grade improvements.

1.2 DEFINITIONS

A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.

B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.

C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.

D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.

E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.

F. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.3 PERFORMANCE REQUIREMENTS

A. General: Achieve end-of-Project rates for salvage/recycling of 50 percent by weight of total non-hazardous solid waste generated by the Work. Facilitate recycling and salvage of materials.

1.4 ACTION SUBMITTALS

A. Waste Management Plan: Submit plan within 7 days of date established for the Notice to Proceed.

1.5 INFORMATIONAL SUBMITTALS

A. Waste Reduction Progress Reports: Concurrent with each Application for Payment, submit report. Include the following information:

1. Material category.
2. Generation point of waste.
3. Total quantity of waste in tons (tonnes).
4. Quantity of waste salvaged, both estimated and actual in tons (tonnes).
5. Quantity of waste recycled, both estimated and actual in tons (tonnes).
6. Total quantity of waste recovered (salvaged plus recycled) in tons (tonnes).
7. Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.

B. Waste Reduction Calculations: Before request for Substantial Completion, submit calculated end-of-Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work.

C. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

D. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

E. Qualification Data: For waste management coordinator.

1.6 QUALITY ASSURANCE

A. Waste Management Coordinator Qualifications: LEED-Accredited Professional, certified by USGBC.

1.7 WASTE MANAGEMENT PLAN

A. General: Develop a waste management plan according to ASTM E 1609 and requirements in this Section. Plan shall consist of waste identification, waste reduction work plan, and cost/revenue analysis. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan.

B. Waste Identification: Indicate anticipated types and quantities of demolition, site-clearing, and construction waste generated by the Work. Include estimated quantities and assumptions for estimates.

C. Waste Reduction Work Plan: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Include points of waste generation, total quantity of each

type of waste, quantity for each means of recovery, and handling and transportation procedures.

1. Salvaged Materials for Reuse: For materials that will be salvaged and reused in this Project, describe methods for preparing salvaged materials before incorporation into the Work.
2. Salvaged Materials for Sale: For materials that will be sold to individuals and organizations, include list of their names, addresses, and telephone numbers.
3. Salvaged Materials for Donation: For materials that will be donated to individuals and organizations, include list of their names, addresses, and telephone numbers.
4. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.
5. Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator facility.
6. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location where materials separation will be performed.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.

B. Waste Management Coordinator: Engage a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan. Coordinator shall be present at Project site full time for duration of Project.

C. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site.

1. Distribute waste management plan to everyone concerned within three days of submittal return.
2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.

D. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.

3.2 SALVAGING DEMOLITION WASTE

A. Salvaged Items for Reuse in the Work:

1. Clean salvaged items.
2. Pack or crate items after cleaning. Identify contents of containers.
3. Store items in a secure area until installation.
4. Protect items from damage during transport and storage.
5. Install salvaged items to comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make items functional for use indicated.

B. Salvaged Items for Owner's Use:

1. Clean salvaged items.
2. Pack or crate items after cleaning. Identify contents of containers.
3. Store items in a secure area until delivery to Owner.
4. Transport items to Owner's storage area designated by Owner.
5. Protect items from damage during transport and storage.

3.3 RECYCLING DEMOLITION WASTE, GENERAL

A. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.

1. Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.

   a. Inspect containers and bins for contamination and remove contaminated materials if found.

2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
4. Store components off the ground and protect from the weather.
5. Remove recyclable waste from Owner's property and transport to recycling receiver or processor.

3.4 RECYCLING DEMOLITION WASTE

A. Asphalt Paving: Grind asphalt to maximum 1-1/2-inch (38-mm) size.

B. Asphalt Paving: Break up and transport paving to asphalt-recycling facility.

C. Concrete: Remove reinforcement and other metals from concrete and sort with other metals.

1. Pulverize concrete to maximum 1-1/2-inch (38-mm) size.

D. Masonry: Remove metal reinforcement, anchors, and ties from masonry and sort with other metals.

1. Pulverize masonry to maximum 3/4-inch (19-mm) size.
2. Clean and stack undamaged, whole masonry units on wood pallets.

E. Wood Materials: Sort and stack members according to size, type, and length. Separate lumber, engineered wood products, panel products, and treated wood materials.

F. Metals: Separate metals by type.

1. Structural Steel: Stack members according to size, type of member, and length.
2. Remove and dispose of bolts, nuts, washers, and other rough hardware.

G. Asphalt Shingle Roofing: Separate organic and glass-fiber asphalt shingles and felts. Remove and dispose of nails, staples, and accessories.

H. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location. Remove edge trim and sort with other metals. Remove and dispose of fasteners.

I. Acoustical Ceiling Panels and Tile: Stack large clean pieces on wood pallets and store in a dry location.

J. Metal Suspension System: Separate metal members including trim, and other metals from acoustical panels and tile and sort with other metals.

K. Carpet: Roll large pieces tightly after removing debris, trash, adhesive, and tack strips.

1. Store clean, dry carpet in a closed container or trailer provided by Carpet Reclamation Agency or carpet recycler.

L. Carpet Tile: Remove debris, trash, and adhesive.

1. Stack tile on pallet and store clean, dry carpet in a closed container or trailer provided by Carpet Reclamation Agency or carpet recycler.

M. Piping: Reduce piping to straight lengths and store by type and size. Separate supports, hangers, valves, sprinklers, and other components by type and size.

N. Conduit: Reduce conduit to straight lengths and store by type and size.

3.5 RECYCLING CONSTRUCTION WASTE

A. Packaging:

1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
2. Polystyrene Packaging: Separate and bag materials.
3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.
4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.

B. Wood Materials:

1. Clean Cut-Offs of Lumber: Grind or chip into small pieces.
2. Clean Sawdust: Bag sawdust that does not contain painted or treated wood.

C. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location.

1. Clean Gypsum Board: Grind scraps of clean gypsum board using small mobile chipper or hammer mill. Screen out paper after grinding.

3.6 DISPOSAL OF WASTE

A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.

1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

B. Burning: Do not burn waste materials.

C. Burning: Burning of waste materials is permitted only at designated areas on Owner's property, provided required permits are obtained. Provide full-time monitoring for burning materials until fires are extinguished.

D. Disposal: Remove waste materials and dispose of at designated spoil areas on Owner's property.

E. Disposal: Remove waste materials from Owner's property and legally dispose of them.

END OF SECTION 017419

SECTION 01 7300

EXECUTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:

1. Construction layout.
2. Field engineering and surveying.
3. Installation of the Work.
4. Cutting and patching.
5. Coordination of Owner-installed products.
6. Progress cleaning.
7. Starting and adjusting.
8. Protection of installed construction.

B. Related Requirements:

1. Throughout the specifications, types of materials may be specified by manufacturer's name and catalogue number in order to establish standards of quality and performance and not for the purpose of limiting competition. Alternate methods and/or materials may be submitted to the Architect for consideration.

1.2 INFORMATIONAL SUBMITTALS

A. Certificates: Submit certificate signed by land surveyor certifying that location and elevation of improvements comply with requirements.

B. Landfill Receipts: Submit copy of receipts issued by a landfill facility, licensed to accept hazardous materials, for hazardous waste disposal.

C. Certified Surveys: Submit two copies signed by land surveyor.

D. Final Property Survey: Contractor shall have a professional land surveyor prepare an as-built survey showing the accurate horizontal and vertical locations of all building corners, paved areas, sidewalks, utilities, fencing, site walls, and grading in accordance with the requirements of the City of Gaithersburg, located within the project area.

1.3 QUALITY ASSURANCE

A. Land Surveyor Qualifications: A professional land surveyor who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing land-surveying services of the kind indicated.

B. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.

1. Structural Elements: When cutting and patching structural elements, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural element during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection

2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.

3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.

4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Comply with requirements specified in other Sections.

B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.

1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities and other construction affecting the Work. Please refer to hazardous materials report by Triad Engineering dated 1-8-15 for additional information about underground utilities.

1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, and water-service piping; underground electrical services, and other utilities.
2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.

B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.

C. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Existing Utility Information: Furnish information to Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.

B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.

3.3 FIELD ENGINEERING

A. Reference Points: Locate existing permanent benchmarks, control points, and similar reference points before beginning the Work. Preserve and protect permanent benchmarks and control points during construction operations.

B. Benchmarks: Establish and maintain a minimum of two permanent benchmarks on Project site, referenced to data established by survey control points. Comply with authorities having jurisdiction for type and size of benchmark.

1. Record benchmark locations, with horizontal and vertical data, on Project Record Documents.

C. Certified Survey: On completion of foundation walls, major site improvements, and other work requiring field-engineering services, prepare a certified survey showing dimensions, locations, angles, and elevations of construction and sitework.

D. Final Property Survey: Engage a land surveyor to prepare a final property survey as an as-built survey showing significant features (real property) for Project in accordance with requirement of the City of Gaithersburg. Include on the survey a certification, signed by land surveyor, that principal metes, bounds, lines, and levels of Project are accurately positioned as shown on the survey. Contractor shall deliver an electronic file in 2010 AutoCadd format, one (1) paper copy, and one (1) CD.

1. Recording: At Substantial Completion, have the final property survey recorded as an official record plat by or with authorities having jurisdiction as the official "property survey."

3.4 INSTALLATION

A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.

1. Make vertical work plumb and make horizontal work level.
2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
3. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.

B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.

D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.

E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.

F. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.

G. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.5 CUTTING AND PATCHING

A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.

1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.

C. Temporary Support: Provide temporary support of work to be cut.

D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

E. Adjacent Occupied Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.

F. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas.

G. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.

1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
3. Concrete: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
4. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.
5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
6. Proceed with patching after construction operations requiring cutting are complete.

H. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.

1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
3. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.

I. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.6 PROGRESS CLEANING

A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.

1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).
3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.

B. Site: Maintain Project site free of waste materials and debris.

C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.

1. Remove liquid spills promptly.
2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

D. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.

E. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

F. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.7 STARTING AND ADJUSTING

A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.

B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.

C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

D. Test each existing equipment that is to remain on site for proper operation and function for its intended use. Confirm that there are no mechanical damages or operation insufficiencies which will result in long term failure to the component. Ensure that the Owner is made aware of any long term maintenance issues (e.x. air filters, oil changes, etc) that would have to be completed over the life cycle of the mechanical component.

3.8 PROTECTION OF INSTALLED CONSTRUCTION

A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

B. Comply with manufacturer's written instructions for temperature and relative humidity.

END OF SECTION 017300

SECTION 01 5000

TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

1.2 USE CHARGES

A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Architect, occupants of Project, testing agencies, and authorities having jurisdiction.

B. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations. Contractor must add backflow preventer.

C. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.

1.3 INFORMATIONAL SUBMITTALS

A. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.

B. Erosion- and Sedimentation-Control Plan: Show compliance with requirements of the City of Gaithersburg Department of Permitting and Inspections.

C. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire prevention program.

1.4 QUALITY ASSURANCE

A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.

B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

C. Accessible Temporary Egress: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.

1.5 PROJECT CONDITIONS

A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Chain-Link Fencing: Minimum 2-inch (50-mm), 0.148-inch- (3.8-mm-) thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet (1.8 m) high with galvanized-steel pipe posts; minimum 2-3/8-inch- (60-mm-) OD line posts and 2-7/8-inch- (73-mm-) OD corner and pull posts with galvanized barbed-wire top strand.

B. Portable Chain-Link Fencing: Minimum 2-inch (50-mm), 0.148-inch- (3.8-mm-) thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet (1.8 m) high with galvanized-steel pipe posts; minimum 2-3/8-inch- (60-mm-) OD line posts and 2-7/8-inch- (73-mm-) OD corner and pull posts, with 1-5/8-inch- (42-mm-) OD top and bottom rails. Provide galvanized-steel bases for supporting posts.

C. Wood Enclosure Fence: Plywood, [6 feet (1.8 m)] [8 feet (2.4 m)] high, framed with four 2-by-4-inch (50-by-100-mm) rails, with preservative-treated wood posts spaced not more than 8 feet (2.4 m) apart.

2.2 TEMPORARY FACILITIES

A. Field Offices, General: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.

B. Common-Use Field Office: Of sufficient size to accommodate needs of Owner, Architect, Construction Manager, and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly.

C. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.

2.3 EQUIPMENT

A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.

1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
2. Heating Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.
3. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return-air grille in system and remove at end of construction.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.

B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

A. General: Install temporary service or connect to existing service.

1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.

B. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.

1. Connect temporary sewers to municipal system as directed by authorities having jurisdiction.

C. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction.

D. Water Service: Connect to Owner's existing water service facilities. Clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.

E. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

1. Toilets: Use of Owner's existing toilet facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.

F. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.

G. Electric Power Service: Connect to Owner's existing electric power service. Maintain equipment in a condition acceptable to Owner.

H. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.

1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.

I. Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install one telephone line for each field office.

1. Provide additional telephone lines for the following:

a. Provide a dedicated telephone line for each facsimile machine in each field office.

2. At each telephone, post a list of important telephone numbers.

a. Police and fire departments.
b. Ambulance service.
c. Contractor's home office.
d. Contractor's emergency after-hours telephone number.
e. Architect's office.
f. Engineers' offices.
g. Owner's office.
h. Principal subcontractors' field and home offices.

3. Provide superintendent with cellular telephone or portable two-way radio for use when away from field office.

J. Electronic Communication Service: Provide a desktop computer in the primary field office adequate for use by Architect and Owner to access project electronic documents and maintain electronic communications. Equip computer with not less than the following:

1. Processor: Intel Pentium D or Intel CoreDuo, 3.0 GHz processing speed.
2. Memory: 4 gigabyte.
3. Disk Storage: 300 gigabyte hard-disk drive and combination DVD-RW/CD-RW drive.
4. Display: 22-inch (300-mm) LCD monitor with 128 Mb dedicated video RAM.
5. Network Connectivity: 10/100BaseT Ethernet.
6. Productivity Software:

a. Microsoft Office Professional, XP or higher, including Word, Excel, and Outlook.
b. Adobe Reader 7.0 or higher.
c. WinZip 7.0 or higher.

7. Printer: "All-in-one" unit equipped with printer server, combining color printing, photocopying, scanning, and faxing, or separate units for each of these three functions.
8. Internet Service: Broadband modem, router and ISP, equipped with hardware firewall, providing minimum 384 Kbps upload and 1 Mbps download speeds at each computer.
9. Internet Security: Integrated software, providing software firewall, virus, spyware, phishing, and spam protection in a combined application.

3.3 SUPPORT FACILITIES INSTALLATION

A. General: Comply with the following:

1. Provide construction for temporary offices, shops, and sheds located within construction area or within 30 feet (9 m) of building lines that is noncombustible according to ASTM E 136. Comply with NFPA 241.
2. Maintain support facilities until Architect schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.

B. Temporary Roads and Paved Areas: Construct and maintain temporary roads and paved areas adequate for construction operations. Locate temporary roads and paved areas as indicated on Drawings.

1. Provide dust-control treatment that is nonpolluting and nontracking. Reapply treatment as required to minimize dust.

2. Provide mitigation plan; show haul routes.

C. Temporary Use of Permanent Roads and Paved Areas: Locate temporary roads and paved areas in same location as permanent roads and paved areas. Construct and maintain temporary roads and paved areas adequate for construction operations. Extend temporary roads and paved areas, within construction limits indicated, as necessary for construction operations.

1. Coordinate elevations of temporary roads and paved areas with permanent roads and paved areas.
2. Prepare subgrade and install subbase and base for temporary roads and paved areas according to Section 312000 "Earth Moving."
3. Recondition base after temporary use, including removing contaminated material, regrading, proofrolling, compacting, and testing.

D. Traffic Controls: Comply with requirements of authorities having jurisdiction.

1. Protect existing site improvements to remain including curbs, pavement, and utilities.
2. Maintain access for fire-fighting equipment and access to fire hydrants.

E. Parking: Provide temporary parking areas for construction personnel.

F. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.

1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties or endanger permanent Work or temporary facilities.
2. Remove snow and ice as required to minimize accumulations.

G. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.

1. Identification Signs: Provide Project identification signs as necessary.
2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.

a. Provide temporary, directional signs for construction personnel and visitors.

3. Maintain and touchup signs so they are legible at all times.

H. Waste Disposal Facilities: Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."

I. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction.

J. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.

1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.

B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.

C. Temporary Erosion and Sedimentation Control: Comply with requirements of the City of Gaithersburg Department of Permitting and Inspections and requirements specified in Section 311000 "Site Clearing."

D. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.

E. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.

F. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using environmentally safe materials.

G. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.

1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
2. Maintain security by limiting number of keys and restricting distribution to authorized personnel.

H. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each work day.

I. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

J. Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction.

K. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.

1. Where heating or cooling is needed and permanent enclosure is not complete, insulate temporary enclosures.

L. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire prevention program.

1. Prohibit smoking in construction areas.
2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.5 MOISTURE AND MOLD CONTROL

A. Contractor's Moisture Protection Plan: Avoid trapping water in finished work. Document visible signs of mold that may appear during construction.

3.6 OPERATION, TERMINATION, AND REMOVAL

A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.

B. Maintenance: Maintain facilities in good operating condition until removal.

1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.

C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.

D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.

1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
2. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period.

END OF SECTION 015000

SECTION 01 4216

DEFINITIONS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. The following terms shall have the meanings ascribed to them in this Section, wherever they appear in the Contract Documents.

B. Related Sections include the following:

1. Divisions 02 through 48 Sections for specific requirements for demonstration and training for products in those Sections.

1.01 DEFINITIONS

A. General: Basic Contract definitions are included in the Conditions of the Contract.

B. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."

C. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.

1. Critical Activity: An activity on the critical path that must start and finish on the planned early start and finish times.
2. Predecessor Activity: An activity that precedes another activity in the network.
3. Successor Activity: An activity that follows another activity in the network.

D. Approved: When used to convey Architect's action on Contractor's submittals, applications, and requests, "approved" is limited to Architect's duties and responsibilities as stated in the Conditions of the Contract.

E. CADD: Computer-Aided Design and Drafting, the use of computer systems to assist in the creation, modification, analysis, or optimization of a design and the drawings that document said design.

F. Cost Loading: The allocation of the schedule of values for the completion of an activity as scheduled. The sum of costs for all activities must equal the total Contract Sum unless otherwise approved by Architect.

G. CPM: Critical Path Method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine when activities can be performed and the critical path of Project.

H. Construction Waste: Building and site improvement materials and other solid waste

resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.

I. Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float.

J. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.

K. Directed: A command or instruction by Architect. Other terms including “requested,” “authorized,” “selected,” “required,” and “permitted” have the same meaning as “directed.”

L. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.

M. Event: The starting or ending point of an activity.

N. Experienced: When used with an entity or individual, “experienced” means having successfully completed a minimum of five (5) previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

O. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.

P. Float: The measure of leeway in starting the completing an activity.

a. Float time is not for the exclusive use or benefit of either Owner or Contractor, but is a jointly owned, expiring Project resource, available to both parties as needed to meet schedule milestones and Contract completion date.
b. Free float is the amount of time an activity can be delayed without adversely affecting the early start of the successor activity.
c. Total float is the measure of leeway in starting or completing an activity without adversely affecting the planned Project completion date.

Q. Furnish: Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.

R. Indicated: Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including “shown,” “noted,” “scheduled,” and “specified” have the same meaning as “indicated.”

S. Informational Submittals: Written and graphic information and physical samples that do not require Architect’s responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as “informational submittals.”

T. Install: Operations at Project site including unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.

U. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.

V. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).

W. Mockups: Full-size physical assemblies that are constructed on-site. Mockups are constructed to verify selections made under Sample submittals; to demonstrate æsthetic effects and, where indicated, qualities of materials and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with specified installation tolerance. Mockups are not Samples. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.

X. PDF: Portable Document Format, an open standard file format licensed by Adobe Systems used for representing documents in a device-independent and display resolution-independent fixed-layout document format.

Y. Pre-construction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.

Z. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.

AA. Project Site: Space available for performing construction activities. The extent of Project site is shown on drawings and may or may not be identical with the description of the land on which Project is to be built.

AB. Provide: Furnish and install, complete and ready for the intended use.

AC. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.

AD. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect.

AE. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.

1. Construction Waste:
   a. Masonry and CMU
   c. Lumber
   e. Wood sheet materials
   g. Wood trim
   i. Metals
   b. Insulation
   d. Carpet and pad
   f. Gypsum board
   h. Piping
   j. Electrical conduit.
   k. Packaging: Regardless of salvage/recycle goal indicated above, salvage or recycle 100 percent of the following uncontaminated packaging materials:
      1) Paper
      3) Cardboard
      5) Boxes
      7) Wood crates
      2) Polystyrene packaging
      4) Plastic sheet & film
      6) Plastic pail

AF. Regulations: Laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, and rules, conventions, and agreements within the construction industry that control performance of the Work.

AG. Source Quality-Control Testing: Tests and inspections that are performed at the source, e.g., plant, mill, factory, or shop.

AH. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.

AI. Resources Loading: The allocation of manpower and equipment necessary for the completion of an activity as schedules.

AJ. RFI: Request(s) For Interpretation from Owner, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION

SECTION 01 4000
QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. References and standards.

B. Control of installation.

C. Testing and inspection services.

1.02 RELATED REQUIREMENTS

A. Section 01 4216 - Definitions.

B. Section 01 6000 - Product Requirements: Requirements for material and product quality.

1.03 SUBMITTALS

A. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Architect, in quantities specified for Product Data.

1. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

1.04 REFERENCES AND STANDARDS

A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

B. Conform to reference standard of date of issue current on date of Agreement, except where a specific date is established by applicable code.

C. Obtain copies of standards where required by product specification sections.

D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.

E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.

F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

1.05 TESTING AND INSPECTION AGENCIES

A. As indicated in individual specification sections, Owner or Contractor shall employ and pay for services of an independent testing agency to perform other specified testing.

B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Have Work performed by persons qualified to produce required and specified quality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 TESTING AND INSPECTION

A. See individual specification sections for inspection required.

B. Testing Agency Duties:
   1. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services.
   2. Promptly notify Architect and Contractor of observed irregularities or non-conformance of Work or products.
   3. Perform additional tests and inspections required by Architect.
   4. Submit reports of all tests/inspections specified.

C. Limits on Testing/Inspection Agency Authority:
   1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
   2. Agency may not approve or accept any portion of the Work.
   3. Agency may not assume any duties of Contractor.
   4. Agency has no authority to stop the Work.

D. Contractor Responsibilities:
   1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
   2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
   3. Provide incidental labor and facilities:
      a. To provide access to Work to be tested/inspected.
      b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
      c. To facilitate tests/inspections.
      d. To provide storage and curing of test samples.
   4. Notify Architect and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
   5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
   6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.

E. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by Architect.

F. Re-testing required because of non-conformance to specified requirements shall be paid for by Contractor.

3.03 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not conforming to specified requirements.

B. If, in the opinion of Architect, it is not practical to remove and replace the Work, Architect will direct an appropriate remedy or adjust payment.

END OF SECTION

SECTION 01 3553
SECURITY PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Security measures including formal security program, entry control, personnel identification, guard service, and miscellaneous restrictions.

1.02 RELATED REQUIREMENTS

A. Section 01 1000 - Summary: use of premises and occupancy.

B. Section 01 5000 - Temporary Facilities and Controls: Temporary lighting.

1.03 SECURITY PROGRAM

A. Protect Work, existing premises and Owner's operations from theft, vandalism, and unauthorized entry.

B. Initiate program in coordination with Owner's existing security system at project mobilization.

C. Maintain program throughout construction period until Owner acceptance precludes the need for Contractor security.

1.04 ENTRY CONTROL

A. Restrict entrance of persons and vehicles into Project site and existing facilities.

B. Allow entrance only to authorized persons with proper identification.

C. Maintain log of workers and visitors, make available to Owner on request.

D. Contractor shall control entrance of persons and vehicles related to Owner's operations.

E. Coordinate access of Owner's personnel to site in coordination with Owner's security forces.

1.05 PERSONNEL IDENTIFICATION

A. Provide identification badge to each person authorized to enter premises.

B. Badge To Include: Personal photograph, name, assigned number, expiration date and employer.

C. Maintain a list of accredited persons, submit copy to Owner on request.

D. Require return of badges at expiration of their employment on the Work.

1.06 RESTRICTIONS

A. Do no work on days as specified by Owner.

PART 2 PRODUCTS - NOT USED

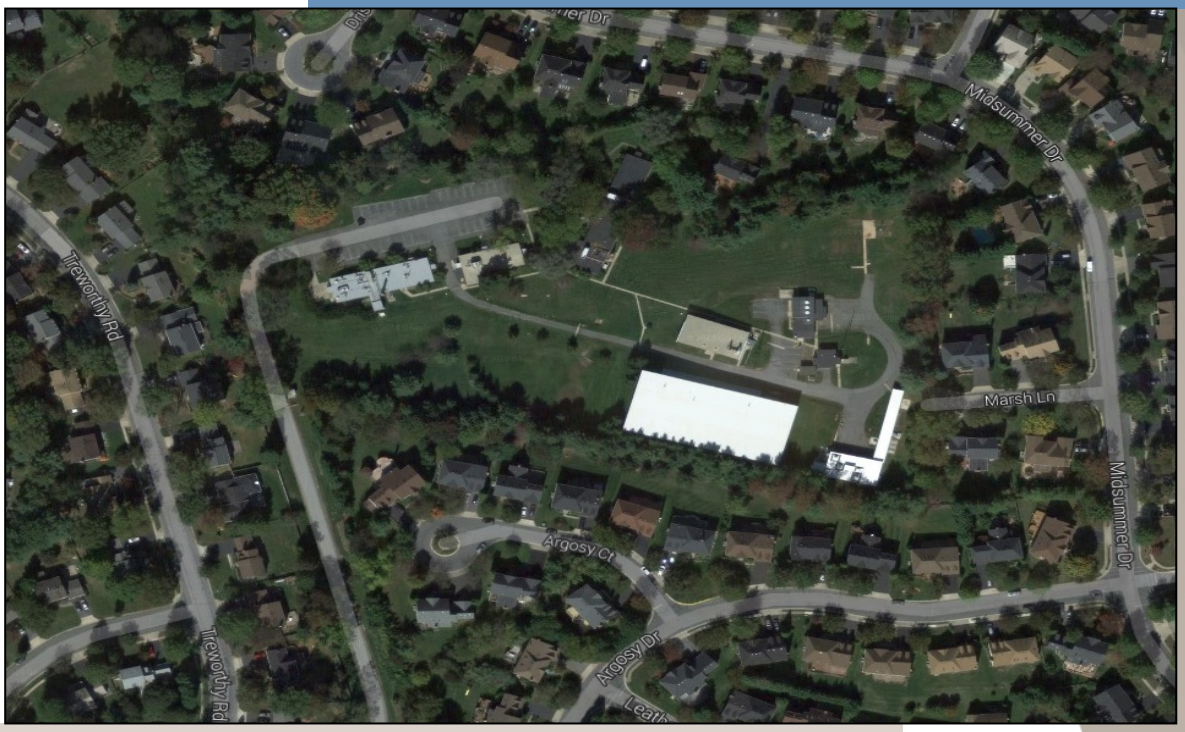
PART 3 EXECUTION - NOT USED

END OF SECTION

APPENDIX B

Hazardous Materials Survey

Former CPSC Property
10901 Darnestown Road
Gaithersburg, Maryland 20878



Triad Project No. 03-14-0350

Prepared for:
Department of Public Works
Attn: Mr. Ronald E. Kaczmarek
City of Gaithersburg
800 Rabbitt Road
Gaithersburg, Maryland 20878

Prepared By:
Triad Engineering Inc.
1075-D Sherman Avenue
Hagerstown, Maryland 21740

January 8, 2015

TRIAD ENGINEERING, INC.

TRIAD Listens, Designs & Delivers™

www.triadeng.com

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Appendix 4 – Tank Excavation Assessment Specifications
Appendix 5 – ALS Laboratory Report for December 22, 2014 Samples

1.0 INTRODUCTION

Triad Engineering, Inc. (Triad) was retained by City of Gaithersburg to complete a Hazardous Materials Survey at 10901 Darnestown Road in Gaithersburg, Maryland (the site). The scope of work performed during this Hazardous Materials Survey was based on the work plan dated October 28, 2014. This survey was conducted as a preliminary requirement of the site demolition process.

This Hazardous Materials Survey was conducted in general conformance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, hereafter referred to as the ASTM Standard Practice, as defined by the *American Society for Testing and Materials (ASTM), Designation E1903-11* and in general conformance with the Code of Maryland Regulations (COMAR) 26.10.09 and Maryland Environmental Assessment Technology (MEAT) for Leaking Underground Storage Tanks (LUSTs).

2.0 SITE DESCRIPTION

2.1 Site and Area Description

The 9.54-acre site is located at 10901 Darnestown Road in Gaithersburg, Maryland 20878. The site is currently vacant, but was formerly a Nike missile control center and was most recently occupied by the Consumer Products Safety Commission (CPSC) as an office, research, and test facility. The site includes seven one-story, cinder block/aluminum siding buildings, and a warehouse structure. A site vicinity map showing the location of the site is included as **Figure 1**.

2.2 Geology

According to the Geologic Map of Maryland (1968), as prepared by the Maryland Geological Survey, the site is underlain by the Upper Peltic Shchist of the Wissahickon Formation. The general lithology of this formation is described as “Albite-chlorite-muscovite-quartz schist with sporadic thin beds of laminated micaceous quartzite; coarsens form west to east; primary sedimentary structures include normal bedding, graded bedding, and soft-sediment deformational structures; apparent thickness 14,000 feet.”

2.3 Hydrogeologic Setting

On a localized scale, the shallow groundwater potentiometric surface is anticipated to exist as a subdued subsurface replica of the site topography; as such shallow groundwater is anticipated to flow southwest toward the Muddy Branch of the Potomac River. It should be noted that the actual groundwater flow direction is often influenced by factors such as soil and bedrock geology, groundwater wells, and other factors beyond the scope of this study.

3.0 Lead and Asbestos Assessment

As part of this Hazardous Materials Survey, a Lead and Asbestos Assessment was conducted. The Hazardous Materials Abatement Specification and Lead and Asbestos Assessment are included as **Appendix 1**.

4.0 Building Foundation Test Pits, Sampling, and Analytical Results

On November 10, 2014, a mini excavator was used to dig test pits at each of the seven buildings to a maximum depth of three feet below ground surface (bgs). Three to four test pits were dug near the foundations of buildings A, B, C, E, F, G, and H. One sample was collected from each test pit using disposable Nitrile gloves. The samples were placed in plastic zip-lock bags and scanned with a photo-ionization detector (PID) to identify total volatile organic compounds (VOCs). The soil samples screened with the PID exhibited readings ranging from the detection limit of the PID to 8.1 parts per million (ppm).

The soil samples were combined into one composite sample for each building to be submitted for laboratory analysis. The soil samples were placed into laboratory-provided sample containers using disposable Nitrile gloves and sealed with Teflon-lined lids. The seven soil samples were placed on ice and shipped via courier to ALS Environmental (ALS) located in Middletown, Pennsylvania under chain-of-custody protocol for subsequent analysis for full suite VOCs by United States Environmental Protection Agency (U.S. EPA) Method 8260 and Total Petroleum Hydrocarbons-Diesel Range Organics (TPH-DRO) and Gasoline Range Organics (TPH-GRO) by U.S. EPA Method 8015B, and Lead by U.S. EPA Method 6010B. The approximate building foundation test pit locations shown on **Figure 2**.

Results of the laboratory analytical testing performed on the soil samples exhibited concentrations of Lead and Methylene Chloride greater than the laboratory method detection limit (MDL), but less than the Maryland Department of the Environment (MDE) residential cleanup standards. As such, there were no exceedances of the MDE Generic Numeric Cleanup Standards for Soil, revised June 2008. The results of the soil samples are summarized in **Table 1**. A copy of the laboratory analytical report is included as **Appendix 2**.

5.0 Former UST Test Pits, Sampling, and Analytical Results

On November 10, 2014, a mini excavator was used to dig three test pits to a maximum depth of four feet bgs in the locations where underground storage tanks (USTs) had formerly been located and were reportedly removed.

Test pit one (TP-1) encountered a 10,000 gallon UST that had been left in place. A full size excavator was then utilized to uncover the entire UST so that the tank and its contents could be examined. After the tank was uncovered, it was observed that the tank was almost completely full of presumably contaminated water. A disposable PVC

bailer was used to extract a water sample from the UST. The water sample was placed into a laboratory-provided sample container using disposable Nitrile gloves and sealed with a Teflon-lined lid. The sample was placed on ice and shipped via courier to ALS located in Middletown, Pennsylvania under chain-of-custody protocol for subsequent analysis for Flashpoint/Ignitability by U.S. EPA Method 1010A. The laboratory analytical results indicate that the water sample had a flashpoint of 120 degrees Fahrenheit, which is below the U.S. EPA liquid ignitability standard of 140 degrees Fahrenheit meaning that the water inside the 10,000 gallon UST is considered ignitable. The UST water sample results are summarized in **Table 2** and a copy of the laboratory analytical report is included as **Appendix 2**. Photo-documentation of the 10,000 gallon UST is included as **Appendix 3.** No soil samples were collected at this time beneath the 10,000 gallon UST. The removal of the UST is beyond the scope of this assessment. The 10,000 gallon UST will be removed and documented under a separate cover. The Tank Excavation Assessment Specifications are included as **Appendix 4**.

Test pit two (TP-2) was never completed since the former 750 gallon UST was suspected to have been located in an area now covered with asphalt, and the warehouse building where it was located is not part of the demolition project. Test pit three (TP-3) and test pit four (TP-4) revealed no evidence that either UST had been left in place. Samples were collected from the bottom of TP-3 and TP-4 using disposable Nitrile gloves. The samples were placed in plastic zip-lock bags and scanned with a PID to identify total VOCs. The soil samples screened with the PID exhibited readings that did not exceed the detection limits of the PID.

The soil samples were placed into laboratory-provided sample containers using disposable Nitrile gloves and sealed with Teflon-lined lids. The two soil samples were placed on ice and shipped via courier to ALS located in Middletown, Pennsylvania under chain-of-custody protocol for subsequent analysis for full suite VOCs by U.S. EPA Method 8260 and TPH-DRO and TPH-GRO by U.S. EPA Method 8015B. The approximate former UST test pit locations shown on **Figure 2**.

Results of the laboratory analytical testing performed on the soil samples collected from TP-3 and TP-4 exhibited concentrations of Methylene Chloride greater than the laboratory MDL, but less than the MDE residential cleanup standards. As such, there were no exceedances of the MDE Generic Numeric Cleanup Standards for Soil, revised June 2008. The results of the soil samples are summarized in **Table 1**. A copy of the laboratory analytical report is included as **Appendix 2**.

6.0 Radio Tower & Octagon Test Pits, Sampling, and Analytical Results

On December 22, 2014, Triad returned to the site to investigate the area where the radio tower had formerly been located and the area where the concrete octagon is currently located. A mini excavator was used to dig the additional test pits to a maximum depth of approximately five feet bgs. A sample was collected from each test pit using disposable Nitrile gloves. The samples were placed in plastic zip-lock bags and

scanned with a PID to identify total VOCs. The soil samples screened with the PID exhibited readings that did not exceed the detection limits of the PID

The soil samples were placed into laboratory-provided sample containers using disposable Nitrile gloves and sealed with Teflon-lined lids. The two soil samples were placed on ice and shipped via courier to ALS located in Middletown, Pennsylvania under chain-of-custody protocol for subsequent analysis for full suite VOCs by United States Environmental Protection Agency (U.S. EPA) Method 8260 and Total Petroleum Hydrocarbons-Diesel Range Organics (TPH-DRO) and Gasoline Range Organics (TPH-GRO) by U.S. EPA Method 8015B, and Lead by U.S. EPA Method 6010B. The approximate radio tower and octagon test pit locations shown on **Figure 2**.

Results of the laboratory analytical testing performed on the soil samples exhibited concentrations of Lead and Methylene Chloride greater than the laboratory MDL, but less than the MDE residential cleanup standards. As such, there were no exceedances of the MDE Generic Numeric Cleanup Standards for Soil, revised June 2008. The results of the soil samples are summarized in **Table 1**. A copy of the laboratory analytical report is included as **Appendix 5**.

7.0 CONCLUSIONS

Triad performed a Hazardous Materials Survey at 10904 Darnestown Road in Gaithersburg, Maryland. The Hazardous Materials Survey included a Lead and Asbestos assessment, twelve test pits, collection and screening of soil samples for VOCs using a PID calibrated to ppm Isobutylene, and submission of eleven soil samples, and one UST water sample to ALS located in Middletown, Pennsylvania under chain-of-custody protocol for subsequent laboratory analysis.

Results of the UST water laboratory analytical testing identified that the liquid in the 10,000 gallon UST has a flashpoint of 120 degrees Fahrenheit. Analytical testing of the soil samples identified concentrations of Total Lead and Methylene Chloride greater than the MDL, but below the MDE residential soil cleanup standard. Based on field observations, PID results, and soil analytical results, it is Triad's opinion that the liquid in the 10,000 gallon UST be recovered and the UST be removed in accordance with the February 2003 Maryland Environmental Assessment Technology (MEAT) for Leaking UST's (LUST).

8.0 LIMITATIONS

This report was prepared by Triad Engineering, Inc. for the use of the City of Gaithersburg in assessing the condition of the property located 10901 Darnestown Road in Gaithersburg, Maryland. The scope is limited to the specific project and locations described herein.

Our conclusions and opinions are based on our interpretation of the information that was provided to us by others and on our own data collection. Subsurface conditions may vary on-site between test locations with time.

The Hazardous Materials Survey for the property at 10901 Darnestown Road in Gaithersburg, Maryland was prepared in general conformance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, hereafter referred to as the ASTM Standard Practice, as defined by the *American Society for Testing and Materials (ASTM), Designation E1903-11* and in general conformance with the Code of Maryland Regulations (COMAR) 26.10.09 and Maryland Environmental Assessment Technology (MEAT) for Leaking Underground Storage Tanks (LUSTs). Our assessment is valid only for the time at which it was performed. We do not assume responsibility for conditions at the site that were known by our client or other individuals and not divulged to us during the preparation of this report. In addition, we can make no guarantees that no additional information will be required if this report is reviewed by the MDE. No other warranty, either implied or expressed, is made as to the professional advice and opinions expressed herein.

Should you have any questions regarding the content of this report, please do not hesitate to contact us at (301) 797-6400.

Sincerely,

TRIAD ENGINEERING, INC.

Nickolas J. Grim
Environmental Staff Scientist

Nicholas J. Wolfe, P.G.
Environmental Services Manager

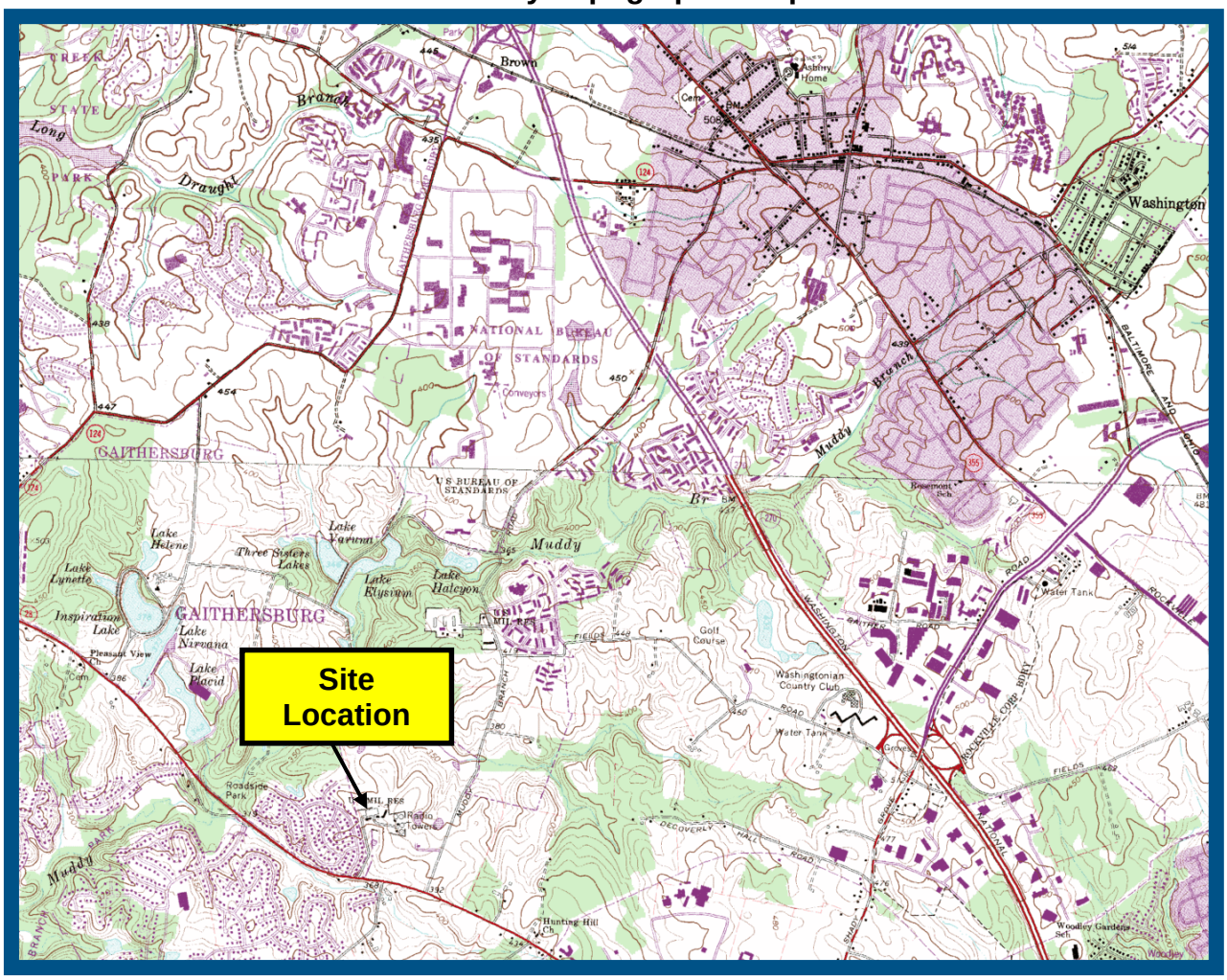
TRIAD ENGINEERING, INC.

FIGURES

FIGURE 1

10901 Darnestown Road
Gaithersburg, Maryland 20877

Site Vicinity Topographic Map



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Rockville, Maryland 1984
Not to Scale

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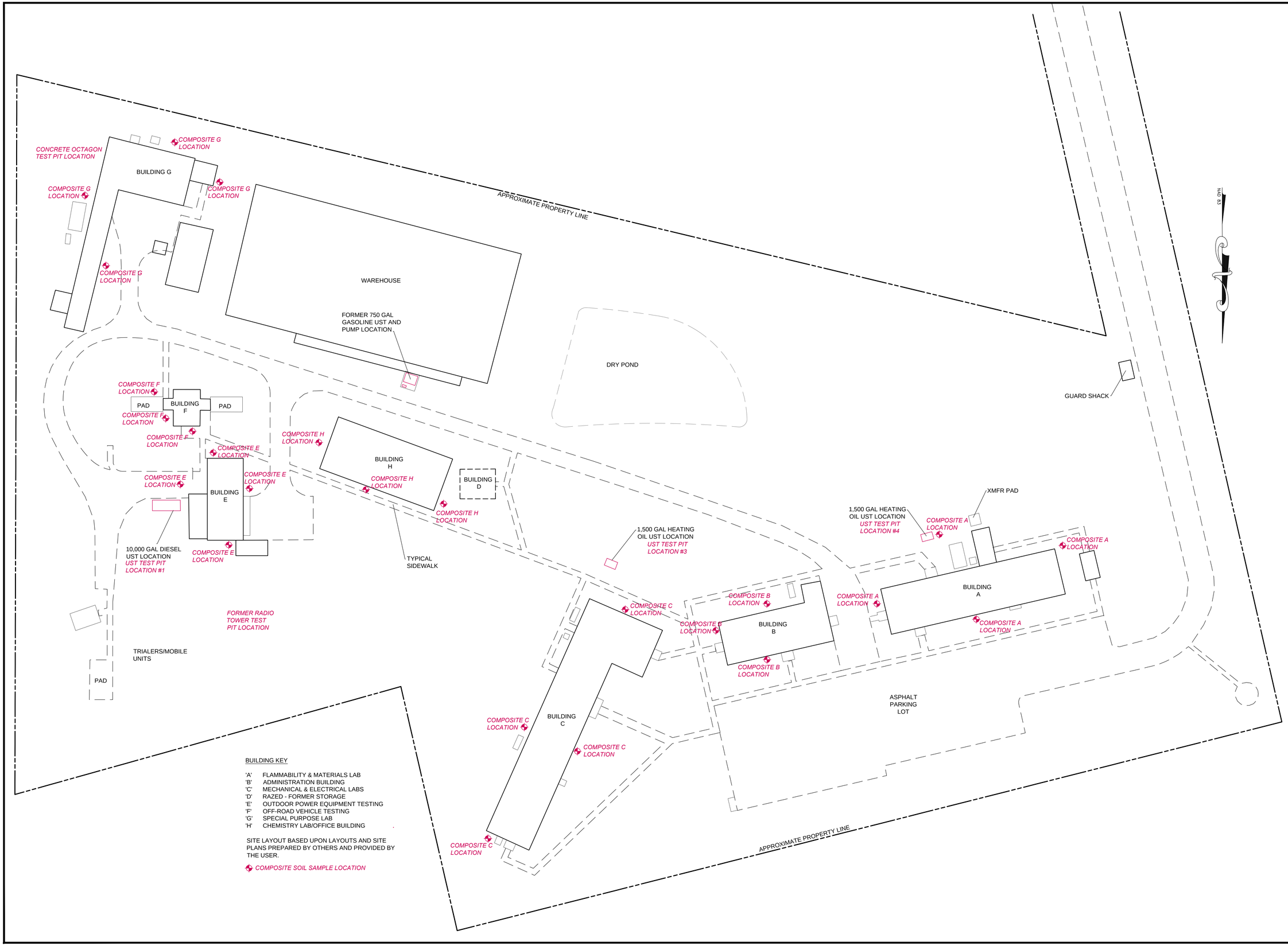
TRIAD ENGINEERING, INC.



BUILDING KEY

'A' FLAMMABILITY & MATERIALS LAB
'B' ADMINISTRATION BUILDING
'C' MECHANICAL & ELECTRICAL LABS
'D' RAZED - FORMER STORAGE
'E' OUTDOOR POWER EQUIPMENT TESTING
'F' OFF-ROAD VEHICLE TESTING
'G' SPECIAL PURPOSE LAB
'H' CHEMISTRY LAB/OFFICE BUILDING

SITE LAYOUT BASED UPON LAYOUTS AND SITE PLANS PREPARED BY OTHERS AND PROVIDED BY THE USER.

COMPOSITE SOIL SAMPLE LOCATION

NO.	DATE	DESCRIPTION	BY

DRAWN BY NJG
CHECKED BY NJW
SCALE 1" = 30'
DATE 12/31/14

TRIAD ENGINEERING INC.
10750 Sherman Avenue Hagerstown, Maryland 21740
Phone: (301) 797-6400 * Fax: (301) 797-2424 * Email: hagerstown@triadeng.com
MORGANTOWN • ST. ALBANS • GREENSBURG • WINCHESTER • PURCELLVILLE • HAGERSTOWN
WEST VIRGINIA PENNSYLVANIA VIRGINIA MARYLAND

RFQ 2015-FAC-01
SITE DIAGRAM
FOR
FORMER CONSUMER PRODUCT SAFETY COMMISSION SITE
10901 DARNESTOWN ROAD
GAITHERSBURG, MARYLAND 20877

SHEET NO.
Figure 2
FILE No. 03-14-0350
TRIAD JOB No. 03-14-0350

TRIAD ENGINEERING, INC.

TABLES

TABLE 1
Soil Analytical Summary - Hits Only
Former CPSC
10901 Darnestown Road
Gaithersburg, Maryland 20878

SAMPLE ID	Date	PID (ppm)	Analytical Results (mg/kg)	
			Lead, Total	Methylene Chloride
MDE Standards**			**400**	**85**
Composite A	11/10/2014	5.2	14.7	0.025
Composite B	11/10/2014	0	35.9	0.025
Composite C	11/10/2014	8.1	16.7	0.027
Composite E	11/10/2014	1.9	17.8	0.029
Composite F	11/10/2014	0	21	0.032
Composite G	11/10/2014	0	9.9	0.028
Composite H	11/10/2014	0	19.2	0.020
TP-3	11/10/2014	0	NA	0.015
TP-4	11/10/2014	0	NA	0.016
Radio Tower TP	12/22/2014	0	35.8	0.012
Octagon TP	12/22/2014	0	26.1	0.017

NOTES:

PID= Photo-ionization detector

ppm= Parts per million

mg/kg= Milligrams per kilogram

**= Maryland Department of Environment (MDE) Table 1 - Generic Numeric Cleanup Standards for Groundwater and Soil, revised June 2008

NA= Not Analyzed

TABLE 2
Tank Water Analytical Summary
Former CPSC
10901 Darnestown Road
Gaithersburg, Maryland 20878

SAMPLE ID	Date	U.S. EPA Ignitability Standard (degrees Fahrenheit)	Flashpoint/Ignitability (degrees Fahrenheit)
TW-1	11/10/2014	140	120

NOTES:

According to United States EPA regulations, this sample is considered to be ignitable (Ref 40 CFR 261.21)

TRIAD ENGINEERING, INC.

APPENDIX 1

Hazardous Materials Abatement Specification and Lead and Asbestos Assessment

HAZARDOUS MATERIALS
ABATEMENT SPECIFICATIONS

Former Consumer Product Safety Commission Site
10901 Darnestown Road
Gaithersburg, Maryland 20877

Triad Project No. 03-14-0350

Prepared For:

City of Gaithersburg
Department of Public Works
800 Rabbitt Road
Gaithersburg, Maryland 20878

Prepared by:

Triad Engineering, Inc.
21641 Beaumeade Circle
Suite 300
Ashburn, Virginia 20147

January 8, 2015

HAZARDOUS MATERIALS
ABATEMENT SPECIFICATION

Former Consumer Product Safety Commission Site
10901 Darnestown Road
Gaithersburg, Maryland 20878

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TRIAD – HAZARDOUS MATERIALS SURVEY REPORT

HAZARDOUS MATERIALS
ABATEMENT SPECIFICATION

Former Consumer Product Safety Commission Site
10901 Darnestown Road
Gaithersburg, Maryland 20878

1.0 PURPOSE

The purpose of these Specifications is to provide direction under which hazardous materials including asbestos-containing materials (ACM) will be removed from the Former Consumer Product Safety Commission facility at 10901 Darnestown Road, Gaithersburg, Maryland 20878, during proposed demolition. Requests for information regarding technical or contractual matters should be directed to:

Mr. Ronald Kaczmarek
Facilities & Capital Projects Division Chief
Department of Public Works
City of Gaithersburg
800 Rabbitt Road
Gaithersburg, Maryland 20878

Phone: (301) 258-6730
Email: rkaczmarek@gaithersburgmd.gov

2.0 SCOPE OF WORK

2.1 Scope of Work

The Scope of Work consists of the removal of ACM from the above-mentioned facility. ACM present in the site structure are identified and quantified in the attached Hazardous Materials Survey Report completed by Triad concurrently with this specification. Based on the information contained in the Hazardous Materials Survey Report, ACM potentially affected by the project includes:

HA Number / Sample IDs	Material Description	Location	Estimated Quantity
HA-10; 0350-1202-10A, 10B, 10C	12" Vinyl Floor Tile And Mastic: Tan w/ Gray Streaks 2% Chrysotile Non-Asbestos Mastic	Building A – Throughout	3,875 square feet, sf
HA-20; 0350-1202-20A, 20B, 20C	12" Vinyl Floor Tile: Tan w/ Gray Streaks 3% Chrysotile	Building C – Throughout	6,600 sf
HA-41; 0350-1203-41A, 41B, 41C	12" Vinyl Floor Tile: White w/ Gray Flecks 2% Chrysotile Floor Tile 5% Chrysotile Black Mastic	Building F – Throughout	520 sf

HA Number / Sample IDs	Material Description	Location	Estimated Quantity
HA-52; 0350-1203-52A, 52B, 52C	12" Vinyl Floor Tile: Off-White/Gray w/ Dark Gray & Black Streaks 6% Chrysotile Floor Tile 5% Chrysotile Black Mastic	Building G – Throughout	3,050 sf
HA-58; 0350-1203-58A, 58B, 58C	HVAC Seam Sealant: Tan *Non-Asbestos Insulation & Wrap* 5% Chrysotile	Building G – Rooms 3, 4, and 5	50 sf
HA-73; 0350-1204-73A, 73B, 73C	HVAC Duct Insulation: White Wrap/Yellow Insulation 3% Chrysotile	Building C – Roof	125 sf
HA-75; 0350-1204-75A, 75B, 75C	Roofing Membrane And Sealant: Black/Gray <1% Chrysotile	Building B – Roof	2,500 sf
HA-78; 0350-1204-78A, 78B, 78C	HVAC Duct Insulation Mastic: White Wrap/Yellow Insulation *Non-Asbestos Insulation & Wrap* 3% Chrysotile Mastic	Building B – Roof	150 sf

HA = Homogenous Area

These are estimated quantities. The Contractor is responsible for verifying actual site conditions. Please refer to the attached Triad Hazardous Materials Survey Report for locations of listed ACM.

The Contractor shall perform all necessary services to assure the safety and protection of the Owner's personnel, protection of the environment, the prevention of personal and property damage in or to all surrounding property, and the best interests of the Owner. These services are to be completed in compliance with the removal procedures specified in Section 3.0, REMOVAL AND DISPOSAL OF ASBESTOS MATERIALS as well as all applicable U.S. Environmental Protection Agency (EPA), Occupational Safety and Health Administration (OSHA), and State of Maryland regulations.

2.2 Contractor Qualifications

A. The Contractor and all personnel involved in performing asbestos abatement and disposal operations are required to be properly trained and must be licensed by the State of Maryland prior to the time of the initial job assignment and in accordance with 29 CFR 1926.1101. The Contractor shall have previously completed at least three (3) abatement projects of similar size and scope.

B. The Contractor shall have a Competent Person/Supervisor present at all times during which asbestos abatement work on this contract is in progress. The Competent Person/Supervisor shall be thoroughly familiar with and experienced in asbestos removal and related work and shall be familiar with and shall enforce the use of all safety procedures and equipment. The Competent Person/Supervisor shall have supervised a minimum of three (3) abatement projects of similar size and scope.

C. The Contractor's asbestos workers shall be licensed to perform asbestos work in the State of Maryland, must provide evidence of licensure, shall have worked on a minimum of two (2) abatement projects and have a minimum of six (6) months practical experience.

2.3 Compliance

1. The Contractor shall maintain copies of applicable standards and regulations, the Contract Documents including the project specifications, and the Contractor's respiratory protection program at the job site at all times.

2. Prior to beginning the work on the project, the Contractor shall submit verification to the Owner that the agencies listed below have been notified as applicable based upon the estimated quantity of ACM. Notification must be on standard forms sent at least ten (10) business days prior to beginning the work at the above-mentioned address. Written notification shall be made to each of the following:

   Asbestos NESHAP Coordinator
   Mail Code 3LC62
   EPA Region III
   1650 Arch Street
   Philadelphia, Pennsylvania 19103

   Asbestos NESHAP Coordinator
   Maryland Department of the Environment
   Air Quality Compliance
   1800 Washington Boulevard
   Suite 725
   Baltimore, Maryland 21230

3. All requests for change orders shall be in writing prior to commencement of work that is out of the scope of work stated in this specification document and appendices.

2.4 Third-Party Inspection and Project Monitoring

It shall be the responsibility of the Contractor to hire an independent, third-party testing and inspection agency (Project Monitor) to provide abatement project monitoring services for the duration of the project. The Building Owner will NOT be responsible for providing any asbestos project monitoring, inspection, or clearance testing.

2.5 Project Time Frame

The Contractor shall comply with the Project Time Frame set forth in the Contract Documents.

3.0 REMOVAL AND DISPOSAL OF ASBESTOS MATERIALS

3.1 Regulations

The Contractor is responsible for adhering to all federal, state, and local regulations and directives applicable to the scope of work. All applicable federal, state, and local regulations and directives form a part of this specification by reference. The Contractor shall submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting the work. Where

the requirements of this specification and referenced documents vary, the most stringent requirements shall apply. If the level of stringency cannot be agreed upon, the decision of the Owner's Technical Representative shall be binding. The following publications form a part of this specification:

A. State of Maryland

1. Code of Maryland Regulations (COMAR) 26.11.21 Control of Asbestos Regulation

B. Codes of Federal Regulations (CFR)

1. 29 CFR 1910.134 Respiratory Protection
2. 29 CFR 1910.145 Accident Prevention Signs and Tags
3. 29 CFR 1910.1001 General Industry Standard and Appendix A-1
4. 29 CFR 1910.1200 Hazard Communication
5. 29 CFR 1926.55 Gases, Vapors, Fumes, Dust, and Mists
6. 29 CFR 1926.62 Occupational Health and Environmental Controls – Lead
7. 29 CFR 1926.1101 Construction Industry Standard for Asbestos
8. 40 CFR 61 Subpart A: General Provisions
9. 40 CFR 61 Subpart M: EPA, National Emission Standards for Hazardous Air Pollutants (NESHAP) Asbestos
10. 40 CFR 763 Asbestos Hazard Emergency Response Act (AHERA)
11. 49 CFR 178 Shipping Container Specification

3.2 General Procedures

A. Terminology

1. *Abatement*: Procedures to control and/or prevent fiber release from ACM. This includes encapsulation, enclosure, and removal.
2. *Air Monitoring*: The process of collecting and analyzing air samples to determine the number of fibers present per cubic centimeter of air during a specific period of time.
3. *Amended Water*: Water to which a surfactant has been added.
4. *Asbestos*: Asbestos means Actinolite, Amosite, Anthophyllite, Chrysotile, Crocidolite, or Tremolite.

5. *Asbestos-Containing Material*: Any material containing more than 1% (one percent) asbestos of any type or mixture.

6. *Asbestos Fibers*: This expression refers to fibers having an aspect ratio of 3:1 and longer than five micrometers.

7. *Authorized Person or Visitor*: The building Owner, Owner's representative, or a representative of any regulatory or other agency having jurisdiction over the project.

8. *Building Owner*: The Owner or its authorized representative.

9. *Class I Asbestos Work*: Defined in 29 CFR 1926.1101 as activities involving the removal of thermal system insulation (TSI) and surfacing ACM and presumed asbestos-containing material (PACM).

10. *Class II Asbestos Work*: Defined in 29 CFR 1926.1101 as activities involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics.

11. *Competent Person*: In addition to the definition in 29 CFR 1926.32(f), one who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them, as specified in 29 CFR 1926.32(f); in addition, for Class I and Class II work who is specially trained in a training course which meets the criteria of EPA's Model Accreditation Plan (40 CFR 763) for project designer or supervisor, or its equivalent and for Class III and Class IV work who is trained in an operations and maintenance O&M course developed by EPA (40 CFR 763.92(a)(2)).

12. *Critical Barrier:* One or more layers of six-mil plastic sealed over all openings into a work area or any other similarly placed physical barrier sufficient to prevent airborne asbestos fibers in a work area from migrating to an adjacent area.

13. *Curtained Doorway*: A device to allow ingress or egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping layers of plastic sheeting over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway. Two curtained doorways spaced a minimum of six feet (two meters) apart constitute an airlock.

14. *Decontamination Enclosure System (Change Rooms)*: A series of connected rooms, with curtained doorways between any two adjacent rooms, for the decontamination of workers, materials and equipment. A decontamination enclosure system always contains at least one airlock.

15. *Differential Pressure*: A local exhaust system capable of maintaining a minimum pressure differential of negative 0.02 inch of water column relative to adjacent unsealed areas.

16. *Equipment Decontamination Enclosure System*: That portion of a decontamination unit designed specifically for controlled transfer of materials and equipment, typically consisting of a designated area of the work area, a washroom, a holding area, and an uncontaminated area.

17. *Equipment Room*: A contaminated area or room that is part of the worker decontamination enclosure system, with provisions for storage of contaminated clothing and equipment.

18. *Excursion Limit*: An airborne asbestos fiber concentration of asbestos in excess of 1.0 fiber per cubic centimeter (f/cc) as averaged over a sampling period of 30 minutes.

19. *Friable Asbestos Material*: Material that contains more than one percent (1%) asbestos and that can be crumbled, pulverized, or reduced to powder by hand pressure when dry.

20. *Fixed Object*: A unit of equipment or furniture in the work area that cannot be removed from the work area.

21. *HEPA Filter Equipment*: High Efficiency Particulate Air (HEPA) filtered vacuuming equipment with a filter system capable of collecting and retaining asbestos fibers. Filters shall be of 99.97 percent efficiency for retaining fibers of 0.3 microns or larger.

22. *Holding Area*: A chamber between the washroom and an uncontaminated area in the equipment decontamination enclosure system. The holding area comprises an airlock.

23. *Intact*: Means that the ACM has not crumbled, been pulverized, or otherwise deteriorated so that the asbestos is no longer likely to be bound with its matrix.

24. *Movable Object*: A unit of equipment or furniture in the work area that can be removed from the work area.

25. *Negative Air Pressure Equipment*: A portable local exhaust system equipped with HEPA filtration and capable of maintaining a constant, low velocity air flow into regulated areas from adjacent uncontaminated areas.

26. *Non-Friable Asbestos Material*: Material that contains more than one percent (1%) asbestos and that cannot be crumbled, pulverized, or reduced to powder by hand pressure when dry.

27. *Personal Monitoring*: Sampling of asbestos fiber concentrations within the breathing zone of an employee.

28. *Regulated Area*: An area established by the employer to demarcate areas where Class I, II, or III asbestos work is conducted, and any adjoining area where debris and waste from such asbestos work accumulate; and/or any work area within which airborne concentrations of asbestos, exceed or there is a reasonable possibility they may exceed the permissible exposure limit.

29. *Removal*: All herein specified procedures necessary to remove ACM from the designated areas and to dispose of these materials at an acceptable site.

30. *Shower Room*: A room between the clean room and the equipment room in the worker decontamination enclosure system, with hot and cold or warm running water and suitably arranged for complete showering during decontamination. The shower room comprises an airlock between contaminated and clean areas.

31. *Surfactant*: A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation.

32. *Time-Weighted Average (TWA)*: A sample taken for a minimum of 75 percent of actual time worked throughout a work shift is required to establish the eight-hour TWA. The TWA is an eight-hour airborne concentration of fibers, longer than five micrometers, per cubic centimeter (f/cc) of air. The current OSHA Permissible Exposure Limit (PEL) for asbestos is 0.1 f/cc. If any other level of concentration is established as the OSHA PEL during the course of this project, it shall govern the remaining work.

33. *Washroom*: A room between the work area and the holding area in the equipment decontamination enclosure system. The washroom comprises an airlock.

34. *Wet Cleaning*: The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with water, and by afterwards disposing of these cleaning tools as asbestos-contaminated waste.

35. *Work Area*: Designated rooms, spaces, or areas of the project in which asbestos abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained work area is a work area which has been sealed, plasticized, and equipped with a decontamination enclosure system. A non-contained work area is an isolated or controlled access work area, which has not been plasticized nor equipped with a decontamination enclosure system.

36. *Worker Decontamination Enclosure System*: That portion of a decontamination enclosure system designed specifically for controlled passage of workers and authorized persons or visitors, typically consisting of a clean room, a shower room, and an equipment room.

B. Title to Materials – All materials resulting from demolition work, except as specified otherwise by the Building Owner, shall become the responsibility of the Contractor and shall be disposed of as specified herein.

C. Protection of Existing Work to Remain – Asbestos abatement work shall be performed without damage to or contamination of adjacent work. Where such work is damaged or contaminated it shall be restored to its original condition as necessary.

3.3 Medical Requirements

Required for the following conditions:

A. Employee performs OSHA Class I, II, or III work activities or is exposed at or above the PEL for more than a combined 30 days per year; or

B. When respiratory protection is voluntary utilized or required.

1. Medical Examinations – Provide workers with a comprehensive medical examination as required by OSHA Standard 29 CFR 1926.1101. This examination is not required if adequate records show the employee has been examined as required by OSHA Standard 29 CFR 1926.1101 requirements within the past year. The same medical examination shall be given on an annual basis to employees engaged in an occupation involving asbestos fibers and within thirty (30) calendar days before or after the termination of employment in such occupation. Specifically identify x-ray films of asbestos workers and mark record jackets with the word "ASBESTOS."

2. Medical Record – Maintain complete and accurate records of employees' medical examinations for a period of thirty (30) years after termination of employment and make records of the required medical examinations available for inspection and copying to: The Assistant Secretary of Labor for Occupational Safety and Health, the Director of the NIOSH, authorized representatives of either of them, and an employee's physician upon the request of the employee or former employee.

3.4 Safety Compliance

In addition to detailed requirements of this specification, comply with all laws, ordinances, rules, and regulations regarding handling, storing, transporting, and disposing of asbestos waste materials. Comply with all the applicable requirements of the current issues of OSHA Standards 29 CFR 1910, and 1926, and EPA Standard 40 CFR 61.

A. Respirator Program

The Contractor shall maintain an established respirator program as required by ANSI Z88.2 and OSHA Standard 29 CFR 1910.134. The Contractor shall provide to each employee performing asbestos activities appropriate respiratory protection in accordance with OSHA 29 CFR 1926.1101.

1. Select respirators from those approved for exposure to asbestos fibers by NIOSH. Respirators shall be personally issued and fit tested to each employee.

2. Respirators for Handling Asbestos: Provide personnel engaged in the demolition and removal of asbestos materials with, at minimum, an air-purifying half mask respirator equipped with NIOSH-approved HEPA filters when conducting Class II asbestos removal for which a negative exposure assessment (NEA) has not been conducted. If an employee chooses to utilize a powered air-purifying respirator (PAPR) and it provides adequate protection to the employee, a PAPR must be provided by the employer. **Personnel engaged in Class I asbestos work shall be provided a PAPR.**

3. Optional Respirators for Handling Asbestos: OSHA Standard 29 CFR 1926.1101 requires respirators if airborne concentrations of asbestos fibers are higher than the OSHA PEL of 0.1 f/cc for an eight-hour TWA. All respirators will be approved by NIOSH. When the exposure limits are established, the respirators presented in OSHA Standard 29 CFR 1926.1101 that afford adequate protection at such upper concentrations of airborne asbestos may be used. If the Contractor elects to provide respirators other than a PAPR, the Contractor shall determine the exposure of each employee to airborne asbestos during each phase of the removal operations.

4. If the Contractor has data from projects of a similar nature, he may submit such data to the Owner and use the appropriate respiratory protection based on these data until confirmation of concentration levels.

If the Contractor does not have an NEA, the Contractor must determine the eight-hour TWA concentration of asbestos to which each of the employees is exposed during each type of removal operation. Where filter type respirators are suitable for the work, the Contractor shall provide sufficient quantities of filters approved for asbestos so that workers can change filters during each work shift. Replacement filters shall be stored at the job site and shall be totally protected from exposure to asbestos prior to their use. The filters shall not be used longer than one work shift.

The Contractor shall instruct and train workers in proper respirator use in accordance with the requirements of the American National Standards Practices for Respiratory Protection (ANSI Z88.2-1969). The Contractor will ensure that workers and authorized visitors shall wear the appropriate respirator at all times while in the work area. Each employee shall be tested for respirator fit in accordance with the cited ANSI standard.

B. Special Clothing.

1. Protective Clothing: The Contractor shall provide personnel exposed to airborne concentrations of asbestos fibers above the OSHA PEL, including the Owner's Technical Representative and the Project Monitor, with fire retardant disposable protective whole body clothing, head coverings, gloves, and foot coverings. Provide disposable plastic or rubber gloves for comfort, not to be used alone. Make sleeves secure at the wrists and make foot coverings secure at the ankles by the use of tape.

2. Work Clothing: The Contractor shall provide cloth work clothes for wear under the disposable protective coveralls and foot coverings.

C. Eye Protection. Provide eye protection to personnel engaged in asbestos operations when the use of a full-face respirator is not required.

D. Hard Hat. Provide hard hats to personnel engaged in asbestos operations. Hard hats shall meet the specifications contained in American National Standards Institute, Z89.1-1969, Safety Requirements for Industrial Head Protection.

E. Caution Signs and Labels. Provide caution signs at all approaches to all asbestos removal work areas. Locate signs at such a distance that personnel may read the sign and take the necessary protective steps required before entering the area. Project notification signs shall be posted at all entrances and exits to the structure at least three days prior to beginning work. Provide labels and affix to all asbestos materials, scrap, waste, debris, and other products contaminated with asbestos.

Caution signs shall be in a format conforming to OSHA Standard 29 CFR 1926.1101, a minimum of 20 inches by 14 inches in size and displaying the following legend:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA

3.5 Competent Person

The Contractor shall have a Competent Person/Supervisor present at all times when work on this contract is in progress. The Competent Person/Supervisor shall be thoroughly familiar and experienced with asbestos removal and related work and shall be familiar with and shall enforce the use of all safety procedures and equipment. The Competent Person/Supervisor shall be knowledgeable of all EPA, OSHA, and State of Maryland requirements and guidelines.

3.6 Work Area Demarcation

A. Prior to beginning asbestos abatement procedures, the Contractor shall post all OSHA and EPA documents and approved warning signs, at a minimum, and provide any physical barriers as may be required to protect his equipment as well as the work area from being entered by any unauthorized person(s).

B. It shall be the Contractor's responsibility to secure the work area from entrance by unauthorized personnel. Only approved personnel whose names are submitted to the Contractor prior to starting abatement procedures shall be allowed in the work area. Any damage to the building is the responsibility of the Contractor where such damage resulted from his direct actions, vandalism, or weather-related damage in unprotected work areas.

3.7 Asbestos Work Area Preparation and Removal Methods

The Contractor shall perform all preparation and ACM removal activities in accordance with all applicable EPA, OSHA, State of Maryland, and local regulations. The following subsections are described as a minimum to prepare the work area.

A. All removable fixtures, equipment, and miscellaneous items shall be removed from the immediate work area before work commences. The Contractor shall remove these items to an unaffected area within the building or dispose of these items as directed by the Owner.

B. Any property or movable fixtures to remain in the work area shall be decontaminated before work commences by HEPA vacuuming and wet wiping, then stored along with other equipment.

C. A three-stage decontamination unit shall be installed for each work area where Class I Asbestos Work is conducted and work areas where asbestos-containing floor tile removal is conducted using mechanical methods (i.e., not hand methods) that would result in greater than accidental breakage of the ACM. All means of ingress and egress shall be through the decontamination unit. The decontamination unit shall consist of a clean room, shower room, and an equipment room.

1. The shower room will be equipped with hot and cold or warm water and personal hygiene necessities.

2. All waste water will be collected and disposed of in accordance with EPA regulations.

3. The clean room shall have adequate storage for workers street clothes and personal affects.

D. Interior Work Area Isolation, Prior to Asbestos Removal

1. The Contractor, if applicable, shall removal all detachable electrical, heating, ventilation, air-conditioning equipment or ducts, or other items located on or in contact with the ACM, these items shall be vacuumed with the HEPA-filtered vacuum and wet cleaned, wrapped in six-mil plastic, and stored in the work area, in another secure location, or disposed of as directed by the Owner. Any items requiring special protection shall be protected to the satisfaction of the Building Owner; however, the protection from damage shall be the sole responsibility of the Contractor.

2. Any existing air handlers, ventilation systems, heating and cooling systems, blowers, or other associated electrical equipment in or adjoining the work area shall be shut down and isolated before work commences. All air intakes, diffusers, and vents shall be sealed with six-mil thick plastic and duct tape.

3. Once all items and openings have been sealed or removed, the entire work area (except the areas to be removed) shall be covered with a minimum of two layers of six-mil plastic sheeting on the walls, windows, and floors. Each section of sheeting shall be securely fastened to the next to provide an air and watertight seal.

4. All joints in the six-mil plastic sheeting shall have a minimum of 12 inches of sheet overlap and be securely sealed from air, water, and moisture. Containment barriers shall be maintained until final clearance is achieved. Periodic inspections shall be made by the Competent Person during the project to assure that the integrity of the barriers is maintained.

5. In work areas where asbestos-containing floor tile removal is conducted **only utilizing hand methods that do not result in greater than incidental breakage of ACM and no other ACM is removed**, a containment may be utilized around the

localized work area consisting of a two-layered critical barrier between the work area and adjacent spaces and a single layer of six-mil plastic sheeting covering walls within the contained work area. For these areas, a two-stage decontamination system can be utilized consisting of a clean room and equipment room separated by an airlock. It should be noted that mechanical removal of floor tile, including use of long-handled pry bars or scrapers, is not considered a “hand method” by the Maryland Department of the Environment (MDE) and such activity shall be conducted in full containment as previously prescribed.

E. Exterior Work Area Isolation, Prior to Asbestos Removal

1. All exterior work areas shall be segregated from non-work areas with caution tape a minimum of 25 feet away from the extent of ACM.

2. In work areas where exterior and/or rooftop Class I Asbestos Work is conducted, i.e., removal of asbestos-containing HVAC insulation and mastics, a “mini-enclosure” may be utilized around the localized work area consisting of PVC piping, lumber, or other rigid framing with walls and ceilings constructed of two layers of six-mil poly sheeting. The mini-enclosure should include a three-stage decontamination unit as previously prescribed. The mini-enclosure should be constructed in such a manner as to maintain its structural integrity (airtight and watertight) while subject to anticipated wind and weather stressors.

3. In areas of asbestos-containing roofing removal, the Contractor shall seal all vents and penetrations in the roof with six-mil poly sheeting prior to commencing removal activity. The Contractor shall place six-poly sheeting on the ground surrounding the perimeter of the structure to a minimum distance of six feet from the exterior wall.

F. Local Exhaust System

1. The Contractor shall provide a local exhaust system, ducted to the outdoors, in all enclosed asbestos removal areas regardless of the method of removal which will produce a negative differential pressure in comparison to the area outside the asbestos control area. The local exhaust system shall be in accordance with ANSI Z9.2. Equip the local exhaust system with HEPA filters capable of trapping fibers to 0.3 microns at 99.97% efficiency. Local exhaust equipment must be sufficient to maintain a minimum of four air changes per hour in the removal area and provide a pressure differential recorder with alarm or manometer with strip chart recorder. The local exhaust equipment shall be in operation 24 hours per day until decontamination of the work area is completed as determined by the Owner and/or Project Monitor. In no case shall the building ventilation system be used as the local exhaust system.

2. It shall be requirement of the Contract that a negative air pressure be kept between negative 0.025 inch of water and negative 0.020 inch of water in the work area. If negative pressure falls at or below negative 0.020 inch of water, all abatement work is to stop until the required negative differential pressure is achieved.

G. The Contractor is responsible for providing power and connections adequate for operating machinery used to complete the removal work. Existing power may be used if available and approved by the Owner. However, if the equipment utilized by the Contractor requires additional power and/or connections, the Contractor is responsible

for providing the needed power and connections. If necessary, provide temporary power and lighting and ensure safe installation of temporary power sources and equipment per applicable electrical code requirements; and provide safety lighting and ground-fault circuit interrupters (GFCIs) as a power source for electrical equipment if electric power is to be shut down.

H. The Contractor is required to provide adequate water and connections necessary for the removal process.

I. The Contractor shall maintain emergency and fire exits from work areas, or establish alternative exits satisfactory to the local fire officials.

J. It shall be assured that all personnel, including the Contractor's workers, the Project Monitor, and any authorized visitors, entering the regulated work areas use proper personal protective equipment.

K. If other contractors or trades are working on the same job site concurrent with asbestos abatement activities, they shall be informed that asbestos abatement operations are taking place, in accordance with OSHA Standard 29 CFR 1926.1101.

L. Removal Operations

1. After all work area isolation procedures have been satisfactorily performed, and the pre-removal inspection approved by the Project Monitor, the Contractor shall begin abatement of the ACM. All work methods utilized shall be in compliance with OSHA regulations (29 CFR 1926.1101) governing Class I and Class II activities.

2. The Contractor is responsible for providing all ladders, scrapers, materials, safety equipment, and other equipment to be used on this project.

3. All materials that are brought into the work area must be either decontaminated or disposed of as asbestos waste at the conclusion of the project.

4. At the beginning and end of each work period, the enclosures and critical barriers shall be visually inspected and any damage or defects in the barriers shall be corrected. **If at any time the critical barriers or isolation barriers are torn or damaged, the Contractor shall immediately divert any and all work forces to repair the damaged area and no work shall recommence until the necessary repairs are completed.**

5. The ACM shall be sprayed with amended water mist prior to the actual removal process. The wetting agent shall be mixed in proportions consistent with the manufacturer's instructions.

6. Handling of ACM

   a. All ACM or items that are contaminated with asbestos fibers shall be placed in properly marked water- and air-tight disposal containers. .

   b. During each day's work the bulk asbestos material shall be cleaned and

bagged. No loose asbestos material or asbestos-contaminated debris shall be allowed to remain in the work area overnight.

7. Waste bags shall be marked in accordance with OSHA and EPA standards as containing asbestos materials. Once asbestos material is bagged the following procedures shall be followed:

    a. Bags will be twisted and sealed with duct tape. The neck of the bag will then be “goose necked” (turned 180 degrees) and re-taped with duct tape.

    b. Bags shall then be stored inside the work area or special designated area.

    c. Place caution labels on bags and/or containers in accordance with OSHA Standard 29 CFR 1926.1101. Clean external surfaces of containers thoroughly by wet sponging in the designated areas that are part of the equipment decontamination enclosure system. Move containers to washroom, wet clean each container thoroughly, and move to holding area pending removal to uncontaminated areas. Ensure that containers are removed from the holding area by workers who have entered from uncontaminated areas dressed in clean coveralls. Ensure that workers do not enter from uncontaminated areas into the washroom or the work area; ensure that contaminated workers do not exit the work area through the equipment decontamination enclosure system.

    d. All asbestos material moved out of the work area will be immediately placed in a truck or storage container in accordance with local and state regulations regarding closed conveyance. Storage containers will be designed to prevent exposure from wind, weather, and pedestrian traffic and must be able to be closed and locked.

    e. The number of bags or sections of material taken daily from the work area will be recorded in the contractor’s daily log and recorded by the Project Monitor. A copy of all waste manifests will be provided to the Owner.

M. Worker Decontamination – adequate hot and cold or warm fresh water shall be provided for worker decontamination. Hygiene facilities shall be maintained throughout the project in accordance with OSHA 29 CFR 1926.1101.

3.8 Post-Removal Work Inspections

Once the Contractor has removed all visible ACM and is ready for final cleanup, the Project Monitor shall perform a post-removal visual inspection in each work area. This inspection shall determine whether all materials have been removed and substrates are cleaned prior to proceeding with the next activity. The Contractor shall remedy any deficiency prior to beginning the final clean operations.

After a successful visual inspection, the Contractor shall spray all dried, exposed surfaces with an encapsulant. The Contractor shall provide Safety Data Sheets (SDS) for the encapsulant. The surfaces to be coated shall include surfaces from which the ACM have been removed.

3.9 Decontamination Procedures

Once the ACM or items attached to the ACM have been disturbed, all personnel shall enter and exit through the decontamination area only (except for emergency situations). The following general procedures shall be adhered to when personnel are entering or exiting the work area:

A. All workers shall change work clothes at the designated change areas prior to the start of the day's work. The Contractor shall provide lockers or other adequate storage for workers' street clothes and personal belongings.

B. All workers and authorized visitors shall, each time they leave the work area: remove gross contamination from clothing via HEPA-vacuum or wet-wiping before leaving the work area; proceed to the equipment room and remove all clothing except respirators; proceed to the showers still wearing respirator; clean the outside of the respirator with soap and water while showering; remove the respirator; and thoroughly wash themselves. Following shower and drying off, each worker and authorized visitor shall proceed directly to the clean room and dress in clean clothes or their street clothes.

C. All disposable clothing, towels, and other asbestos-contaminated materials shall be disposed of as asbestos waste.

D. Water (heated), showers, towels, soap, and hygiene supplies shall be the responsibility of the Contractor.

E. Only equipment necessary for the asbestos abatement operation shall be allowed in the work area and should therefore not be allowed to be taken into the decontamination unit.

3.10 Wastewater Disposal

All wastewater produced from the decontamination process or excess from the work area shall be passed through a five-micron or smaller port sized filter specifically designed for removal of asbestos containing particles form water prior to final disposal. Water disposal to sanitary sewer may need municipal approval and is the responsibility of the Contractor.

3.11 Toilet Facilities

Owner may designate toilet facilities for use by the Contractor. If the Owner does not supply toilet facilities, the Contractor will supply a sufficient number of toilet facilities. Any employee leaving the work area shall follow all decontamination procedures necessary to as described herein. It is the Contractor's responsibility to maintain the toilet facilities in a clean and orderly condition.

3.12 Eating, Drinking, Smoking, Cosmetics

No smoking, eating, drinking, or applying cosmetics shall take place inside the work area. No smoking will be permitted within the building and must be done at/in personal vehicles. Prior to eating, drinking, or smoking, the workers shall fully decontaminate as described herein. Upon returning to the work area, the worker shall don new protective clothing.

3.13 Air Monitoring

Ambient and final clearance air sampling shall be conducted by a third-party Project Monitor in accordance with Maryland, OSHA, and AHERA regulations. **It is the responsibility of the Contractor to hire the independent, third-party Project Monitor. The Building Owner will not be responsible for third-party testing or project monitoring.**

A. Throughout removal, disposal, and clean-up, ambient air monitoring will be conducted to measure the asbestos fiber levels within work areas and adjacent areas. This includes ambient air monitoring at the perimeter of exterior work areas during exterior ACM siding removal.

B. Worker personal air samples shall be the responsibility of the Contractor. Monitoring may be duplicated at the discretion of the Owner's Representative. If the duplicate air sampling results differ from those results obtained by the asbestos contractor, the Owner's Representative will determine which results predominate.

C. At no time shall airborne concentrations of asbestos of fibers meet or exceed an 8-hour time weighted average of 0.01 f/cc of air outside of the work area, analyzed via PCM. If sampling outside the containment shows airborne levels meet or exceed 0.01 f/cc, stop all work, correct the condition (s) causing the increase, and notify the Owner immediately. If an asbestos fiber release occurs outside of the asbestos control area, stop work immediately and divert all available work forces to correct the condition to the satisfaction of the Owner, including clearance sampling, prior to resumption of work.

D. Final Clearance Criteria

1. Final Clearance shall be determined via PCM sampling in accordance with COMAR regulations. PCM samples shall be collected using a sampling cassette equipped with a mixed cellulose ester filter with a 0.8-micron pore size with diffuser and analyzed via PCM analysis by the Project Monitor.

2. Final Clearance for exterior roofing removal operations shall consist of a thorough visual inspection by the Project Monitor to verify that all ACM has been removed from the exterior work areas.

3. Final Clearance Air Sampling Protocol, Interior and Enclosed Exterior Work Areas:

   a. Final clearance shall not be conducted until lockdown encapsulant has been applied to surfaces from which the asbestos-containing materials have been removed and allowed to dry and the work area has passed a thorough visual inspection. Final clearance sampling shall be conducted using aggressive sampling methods as prescribed in AHERA regulations.

   b. The minimum number of PCM clearance samples for each work area shall include one sample per room or one sample per every 5,000 sf of work area, whichever results in more sample locations. The volume of air drawn for each of the inside and outside air samples shall be equal to or greater than 1,199 liters for a 25-mm filter using a flow rate equal to or greater than one liter per minute and less than ten liters per minute.

4. Decontamination of the work area is complete and final clearance is achieved if the following set of conditions is met:

   a. Contained work areas pass visual inspection conducted by the Project Monitor for asbestos residue; and

   b. Each of the air samples in the work area measures less than 0.01 f/cc for PCM clearance areas.

   If subsequent clearance retesting is required for any work area, then all labor and material costs required to re-clean and retest the work areas shall be at the Contractor's expense with no additional charges to the Owner.

3.14 Site Inspection

While performing removal work, the Contractor may be subject to on-site inspection by the Owner's Authorized Representative who may be assisted by health and safety personnel. If the work is found to be in violation of this specification, the Authorized Representative will issue a cease and desist order to be in effect immediately and until the violation is resolved. **Standby time required to resolve the violation shall be at the Contractor's expense.**

3.15 Housekeeping and Cleanup

A. Housekeeping and cleanup procedures are essential parts of asbestos dust control. Give meticulous attention to restricting the spread of dust and debris, keep waste from being distributed over the general area or to lower floors. Use approved industrial vacuum cleaners with a HEPA filter to collect dust and small scrap. **The blowing down of the space with compressed air is forbidden.** In all possible instances, workers should clean up their own area. Equip personnel engaged in asbestos scrap and waste cleanup with respiratory equipment and protective clothing as specified herein.

Clean all surfaces in the work area and any other contaminated areas with water and/or with HEPA vacuum equipment. Perform a complete visual inspection of the work area to ensure that the work area is free of visible asbestos debris.

B. Sealed drums, bags, or other containers and all equipment used in the work area shall be included in the cleanup and shall be removed from work areas. Sealed and labeled containers of contaminated waste should be periodically removed from the work area as work progresses to prevent exceeding available storage capacity inside the work area.

C. If, within 24 hours, the Project Monitor finds visible accumulations of asbestos debris in the work area, the Contractor shall repeat the wet cleaning until the work area is in compliance, at the Contractor's expense.

D. Final visual inspections are required to determine if areas are free of visible asbestos debris. Final clearance air samples for asbestos will be taken as specified in Section 3.14.

3.16 Disposal of Asbestos

Collect asbestos waste, scrap, debris, bags, containers, equipment, and asbestos-contaminated clothing that may produce airborne concentrations of asbestos fibers and place in sealed double six-mil thick plastic bags in work area. Rinse bags with water for transfer to the disposal site. Affix each bag with an asbestos caution label as per OSHA Standard 29 CFR 1926.1101. Procedures for hauling and disposal shall comply with applicable federal regulations and state government standards. Disposal of asbestos material will be at an EPA- or state-approved sanitary landfill. An area for interim storage of sealed, secured asbestos waste-containing bags will be secured by the Contractor within the containment area. Workers handling ACM disposal bags shall wear appropriate respirators and personal protective equipment when handing ACM at the disposal site. An EPA waste shipment record shall be provided to document proper disposal of the waste.

For removal of material that is not considered regulated ACM, the Contractor will provide the Owner's Technical Representative with a signed certificate listing the quantity of materials delivered to the disposal site, a description of the location of the site, and a statement attesting to the fact that the site accepts friable ACM and Category I and II non-friable ACM. The signatures of the Contractor, transporter, and site operator must appear on the certificate.

4.0 GENERAL SAFETY REQUIREMENTS

4.1 General

The Contractor shall comply at a minimum with OSHA and State of Maryland regulations. The Contractor alone shall be responsible for the safety, efficiency, and adequacy of his equipment, appliances, and methods and for any damage or contamination, which may result from their failure or improper use, maintenance operation.

A. The Contractor shall designate a member of his organization at the work site whose duty shall be the prevention of accidents. In the absence of notice to the contrary filed in writing to the Owner, or in the designated person’s absence, this person shall be the Project Superintendent.

B. The Contractor shall assume all responsibility for any toxic effects to workers from air supplied respirators, effects of airborne encapsulant particles, mists, vapors, or any wetting agents utilized and the disposal of said wetting agent(s) and any residual toxic damaging residues to personnel or property.

4.2 Work Crews

The Contractor shall be responsible for setting the size of his work crews; however, during removal operations a minimum of two (2) workers shall be in the work area at one time. Workers should not be allowed to work alone within the work area.

4.3 Electrical

During the removal operations the Contractor may be placing his workers in a potentially hazardous electrical environment. Care and special consideration should be exercised by the Contractor to avoid electrical shock to his employees. The requirements as set forth in the National Electrical Code, latest edition, shall be adhered to at all times.

4.4 Work Environment

During work activities the work area environment may become very hot and humid. The Contractor shall take precautions to protect workers from the hostile environment as well as the asbestos fibers. First aid items such as water and cold packs should be kept adjacent to the work area exits, this allowing any personnel requiring emergency egress from the work area with minimum contamination to the clean environment. No worker shall be allowed to reach through the plastic or air lock door to get water or first aid supplied without proper decontamination. If evacuation of the work area is required by contaminated personnel due to an emergency, all work efforts shall stop, and all forces shall be directed at minimizing the area contamination, cleanup operations and first aid procedures. The Owner shall be notified within one hour of the emergency.

5.0 LEAD-SAFE WORK PRACTICES

In addition to those safety considerations noted in Section 4.0, it should be noted that numerous surfaces in the site structures were identified as lead-based paints (LBP), lead-based surface coatings, or lead-containing paints. Specifically, exterior door and window components, structural framing members, piping, and roofing penetrations were commonly identified as LBP. Ceramic tiles, porcelain toilets, and sinks also exhibited a lead content greater than or equal to 0.7 mg/cm^2, the definition of LBP in the State of Maryland. Other paints and surface coatings were identified with detectable concentrations of lead, although below the definition of LBP. The Detailed Reports of Lead Paint Inspection, including all testing combination locations and results are included in the attached Hazardous Materials Survey Report. Any renovation or demolition work during which employees may be occupationally exposed to lead must be conducted in accordance with OSHA lead-safe work practices as set forth in 40 CFR 1926.62. The full provisions of 40 CFR 1926.62 are incorporated into this specification by reference.

5.1 Initial Exposure Determination

The Contractor shall be responsible for conducting an initial worker exposure determination in accordance with 40 CFR 1926.62(d). Generally, the assumed lead exposure for manual demolition activity is 50 to 500 micrograms per cubic meter of air ($\mu g/m^3$). The PEL for airborne lead is 50 $\mu g/m^3$ and the action level for airborne lead is 30 $\mu g/m^3$. In the absence of an initial worker exposure determination or if the initial worker exposure determination indicates a worker exposure meeting or exceeding the action level or PEL, the Contractor shall comply with worker protection methods set forth in 40 CFR 1926.62(e), including provision of respiratory protection 40 CFR 1926.62(f) and personal protective equipment 40 CFR 1926.62(g).

5.2 Housekeeping

All surfaces shall be maintained as free as practicable of accumulations of lead dust and debris and the generation of airborne lead dust shall be kept to a minimum. Floors and other horizontal surfaces in areas where manual demolition occurs and where lead accumulates shall, wherever possible, be cleaned by vacuuming or other methods that minimize the likelihood of lead becoming airborne. Shoveling, dry or wet sweeping, and brushing may be used only where HEPA-vacuuming or other equally effective methods have been tried and found not to be effective.

5.3 Hygiene Facilities and Practices

The Contractor shall ensure that in areas where employees are exposed to lead above the PEL, without regard to the use of respirators, food or beverage is not present or consumed, tobacco products are not present or used, and cosmetics are not applied.

The Contractor shall provide clean change areas for employees exposed to lead above the PEL and assure that change areas are equipped with separate storage facilities for protective work clothing and equipment and for street clothes which prevent cross-contamination. The Contractor shall provide shower and hand-washing facilities, where feasible, for use by employees whose airborne exposure to lead is above the PEL.

ATTACHMENT

TRIAD – HAZARDOUS MATERIALS SURVEY REPORT

ATTACHMENT 1

TRIAD HAZARDOUS MATERIALS SURVEY REPORT

January 8, 2014

Department of Public Works
City of Gaithersburg
Attn: Mr. Ronald E. Kaczmarek
800 Rabbitt Road
Gaithersburg, Maryland 20878

Subject: **Hazardous Materials Survey Report**
Former Consumer Product Safety Commission Site
10901 Darnestown Road
Gaithersburg, Maryland 20878
Triad Project No. 03-14-0350

Dear Mr. Kaczmarek:

Per our proposal dated September 19, 2014, Triad Engineering, Inc. (Triad) has completed a Hazardous Materials Survey for the Former Consumer Product Safety Commission Site located at 10901 Darnestown Road, Gaithersburg, Maryland 20878 (the site). For the purposes of this survey, each structure was considered as an individual survey location and was sampled independently of other structures. The site consists of eight buildings identified as Buildings A, B, C, E, F, G, H, and I and a Guardhouse, which are all scheduled for demolition with the exception of Building I since it was constructed circa 2003.

SCOPE OF SERVICES

Asbestos-Containing Material Survey

The Asbestos-Containing Material (ACM) Survey was conducted by Mr. Brandon J. Colunga, a State of Maryland-accredited asbestos inspector, in accordance with U.S. EPA Standard 40 CFR 763, Subpart E, AHERA, Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1926.1101, and State of Maryland inspection protocols and included all readily accessible interior and exterior areas of all buildings, except Building I, which was locked and not accessible during the survey. Bulk samples of suspect ACM (SACM) were collected using hand tools and dedicated sampling equipment and placed into individual, uniquely-numbered, and sealable sample containers. Sampling equipment was decontaminated between each sample location. During the ACM survey, Triad visually assessed the condition of any suspected ACMs and/or assumed ACMs and documented estimated quantities of these materials. Collected bulk material samples were submitted to SanAir Technologies Laboratory (SanAir), a National Voluntary Laboratory Accreditation Program (NVLAP)-accredited laboratory, for analysis by polarized light microscopy (PLM) EPA Method 600/R-93/116.

Lead-Based Paint Survey

Triad conducted a LBP survey to assess for the potential presence of LBP and surface coatings on the interior and exterior areas of all buildings except Building I. The LBP survey was conducted by Mr. Bradley C. Pearson, a State of Maryland-accredited Lead Inspector Technician, utilizing an X-ray fluorescence (XRF) unit in general accordance with the procedures and directives described in the U.S. Department of Housing and Urban

Development (HUD) guidance document *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards*, June 1997. However, because the structures are proposed for demolition and associated removal or management of identified LBP or surface coatings is incidental to demolition and not intended to reduce or eliminate a lead-based paint hazard, testing for LBPs was conducted in a survey fashion and representative testing combinations were selected accordingly throughout each structure.

Visual Hazardous Materials Inventory

Triad conducted a visual hazardous materials inventory for potential polychlorinated biphenyl (PCB)-containing, mercury-containing equipment and fixtures, and other hazardous materials that might necessitate specialized disposal or management during demolition for all buildings except for Building I. The inventory included a visual assessment of the location, approximate quantity, and condition of potential PCB-containing fluorescent light ballasts and other fixtures. In order to assess for the potential presence of PCB-containing light ballasts, Triad visually inspected a representative number (approximately 10 to 15 percent) of fluorescent light fixture ballasts for “No PCB” labels. Any ballast not labeled as “No PCB” was assumed to be PCB-containing and inventoried as such. Physical sampling of light ballasts or other fixtures for PCB or mercury content was not within the scope of this survey.

HAZARDOUS MATERIALS SURVEY RESULTS

Asbestos-Containing Material Survey

The site structures appeared to be in generally fair condition with localized moisture and mechanical damage observed in several areas in each structure. Interior finishes predominantly consisted of drywall and plaster walls, vinyl floor tile flooring and carpeting, and suspended acoustical ceiling tiles.

A total of 232 bulk samples of SACM were collected from 82 homogenous areas throughout the site and submitted to SanAir for analysis. SanAir is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for analysis of bulk materials for asbestos content and a copy of SanAir’s accreditation is included in **Appendix A**. In addition to identification of each homogenous area of SACM, the inspector also evaluated friability of each sampled material with hand pressure. A friable material is defined as any material able to be crushed, crumbled, pulverized or reduced to a powder by hand pressure when dry. A description of the samples collected, the general material locations, and the results of the laboratory analyses are summarized in the following table. The SanAir laboratory analysis report is included in **Appendix B**. Structure sketches showing the locations of identified ACM are included in **Appendix C**.

ACM SURVEY RESULTS

Sample Number	Description (Homogenous Area Number)	Locations and Approximate Quantity (if ACM)	Asbestos Content	Friable? (Y/N, if ACM)
0350-1202-1A, 1B, 1C	Drywall (HA-1)	Building A - Throughout	Not Detected (ND)	---

Sample Number	Description (Homogenous Area Number)	Locations and Approximate Quantity (if ACM)	Asbestos Content	Friable? (Y/N, if ACM)
0350-1202-2A, 2B, 2C	12" Vinyl Floor Tile And Mastic: White W/ Gray Flecks (HA-2)	Building A - Throughout	ND (Mastic ND)	---
0350-1202-3A, 3B, 3C	Pipe Insulation: White Wrap/Yellow Insulation (HA-3)	Building A - Throughout	ND (Insulation ND)	---
0350-1202-4A, 4B, 4C	Drywall (HA-4)	Building A - Vestibules	ND	---
0350-1202-5A, 5B, 5C	Durock (HA-5)	Building A – Room 1	ND	---
0350-1202-6A, 6B, 6C	Base Cove Mastic: Yellowish-tan (HA-6)	Building A - Throughout	ND	---
0350-1202-7A, 7B, 7C	12" Ceiling Tile: White w/ Pocks and Fissures (HA-7)	Building A - Throughout	ND	---
0350-1202-8A, 8B, 8C	12" Ceiling Tile: Off-white w/ Pocks (HA-8)	Building A – Room 4	ND	---
0350-1202-9A, 9B, 9C	2' Ceiling Tile: White w/ Pocks (HA-9)	Building A – Room 4	ND	---
0350-1202-10A, 10B, 10C	**12" Vinyl Floor Tile and Mastic: Tan w/ Gray Streaks (HA-10)**	**Building A – Throughout (3,875 square feet, sf)**	**2% Chrysotile (Black Mastic ND**	**N**
0350-1202-11A, 11B, 11C	Pipe Fittings: White Wrap w/ Cementitious Material (HA-11)	Building A - Throughout	ND (Insulation ND)	---
0350-1202-12A, 12B, 12C	Exterior Window Caulk: Tan (HA-12)	Building A - Throughout	ND	---
0350-1202-13A, 13B, 13C	Drywall (HA-13)	Building B - Throughout	ND	---

Sample Number	Description (Homogenous Area Number)	Locations and Approximate Quantity (if ACM)	Asbestos Content	Friable? (Y/N, if ACM)
0350-1202-14A, 14B, 14C	2'x4' Ceiling Tile: White w/ Latitudinal Fissures and Pocks (HA-14)	Building B - Throughout	ND	---
0350-1202-15A, 15B, 15C	12" Vinyl Floor Tile and Mastic: White w/ Gray Flecks (HA-15)	Building B – Throughout	ND	---
0350-1202-16A, 16B, 16C	Base Cove Mastic: Tan (HA-16)	Building B – Throughout	ND	---
0350-1202-17A, 17B, 17C	Exterior Window Caulk: Tan (HA-17)	Building B – Throughout	ND	---
0350-1202-18A, 18B, 18C	Drywall (HA-18)	Building C – Throughout	ND	---
0350-1202-19A, 19B, 19C	12" Vinyl Floor Tile: White w/ Gray Flecks (HA-19)	Building C – Throughout	ND (Mastic ND)	---
0350-1202-20A, 20B, 20C	**12" Vinyl Floor Tile: Tan w/ Gray Streaks (HA-20)**	**Building C – Throughout (6,600 sf)**	**3% Chrysotile**	**N**
0350-1202-21A, 21B, 21C	12" Ceiling Tile: White w/ Pocks (HA-21)	Building C – Throughout	ND	---
0350-1202-22A, 22B, 22C	Pipe Insulation: White Wrap/Yellow Insulation (HA-22)	Building C – Throughout	ND (Insulation ND)	---
0350-1202-23A, 23B, 23C	Base Cove Mastic: Tan (HA-23)	Building C – Throughout	ND	---
0350-1202-24A, 24B, 24C	Exterior Window Caulk: Tan (HA-24)	Building C – Throughout	ND	---
0350-1202-25A, 25B, 25C	Pipe Insulation: Blue Wrap (HA-25)	Building C – Room 15	ND (Insulation ND)	---
0350-1202-26A, 26B, 26C	Pipe Insulation: Red Wrap (HA-26)	Building C – Room 15	ND (Insulation ND)	---

Sample Number	Description (Homogenous Area Number)	Locations and Approximate Quantity (if ACM)	Asbestos Content	Friable? (Y/N, if ACM)
0350-1202-27A, 27B, 27C	Pipe Insulation: Black Wrap (HA-27)	Building C – Room 15	ND (Insulation ND)	---
0350-1203-28A, 28B, 28C	Drywall (HA-28)	Building H – Throughout	ND	---
0350-1203-29A, 29B, 29C	Fibrous Carpet Underlay: Black (HA-29)	Building H – Room 1	ND	---
0350-1203-30A, 30B, 30C	Base Cove Mastic: Light Brown (HA-30)	Building H – Throughout	ND	---
0350-1203-31A, 31B, 31C	2'x4' Ceiling Tile: White w/ Latitudinal Fissures and Pocks (HA-31)	Building H – Room 1	ND	---
0350-1203-32A, 32B, 32C	Pipe Insulation: White Wrap/Yellow Insulation (HA-32)	Building H – Throughout	ND (Insulation ND)	---
0350-1203-33A, 33B, 33C	12" Vinyl Floor Tile: White w/ Gray, Tan, & Pink Flecks (HA-33)	Building H – Rooms 2-9	ND	---
0350-1203-34A, 34B, 34C	2'x4' Ceiling Tile: White w/ Pocks (HA-34)	Building H – Hallway	ND	---
0350-1203-35A, 35B, 35C	2'x4' Ceiling Tile: Off-white w/ Pinholes (HA-35)	Building H – Hallway	ND	---
0350-1203-36A, 36B, 36C	2'x4' Ceiling Tile: Smooth White (HA-36)	Building H – Rooms 2-9	ND	---
0350-1203-37A, 37B, 37C	Exterior Door/Window Caulk: Light Brown/Gray (HA-37)	Building H – Throughout	ND	---
0350-1203-38A, 38B, 38C	Exterior HVAC Duct Insulation & Mastic: White Wrap/Yellow Insulation (HA-38)	Building E – Northern Side	ND	---
0350-1203-39A, 39B, 39C	Exterior Door/Window Caulk: Gray (HA-39)	Building E – Throughout	ND	---

Sample Number	Description (Homogenous Area Number)	Locations and Approximate Quantity (if ACM)	Asbestos Content	Friable? (Y/N, if ACM)
0350-1203-40A, 40B, 40C	Drywall (HA-40)	Building F – Throughout	ND	---
0350-1203-41A, 41B, 41C	**12" Vinyl Floor Tile: white w/ gray flecks (HA-41)**	**Building F – Throughout (520 sf)**	**2% Chrysotile Floor Tile (5% Chrysotile Black Mastic)**	**N**
0350-1203-42A, 42B, 42C	Base Cove Mastic: Brown (HA-42)	Building F – Throughout	ND	---
0350-1203-43A, 43B, 43C	2'x4' Ceiling Tile: White w/ Latitudinal Fissures and Pocks (HA-43)	Building F – Throughout	ND	---
0350-1203-44A, 44B, 44C	2'x4' Ceiling Tile: White w/ Pocks (HA-44)	Building F – Room 1	ND	---
0350-1203-45A, 45B, 45C	Exterior Door/Window Caulk: Gray (HA-45)	Building F – Throughout	ND	---
0350-1203-46A, 46B, 46C	Exterior HVAC Duct Insulation & Mastic: White Wrap/Yellow Insulation (HA-46)	Building F – Throughout	ND (Insulation ND)	---
0350-1203-47A, 47B, 47C	Drywall and Joint Compound (HA-47)	Guardhouse – Throughout	ND (Joint Compound ND)	---
0350-1203-48A, 48B, 48C	Exterior Door/Window Caulk: White (HA-48)	Guardhouse – Throughout	ND	---
0350-1203-49A, 49B, 49C	Drywall and Joint Compound (HA-49)	Building G – Throughout	ND (Joint Compound ND)	---
0350-1203-50A, 50B, 50C	2'x4' Ceiling Tile: white w/ latitudinal fissures and pocks (HA-50)	Building G – Throughout	ND	---
0350-1203-51A, 51B, 51C	12" Vinyl Floor Tile: Tan w/ Gray Flecks (HA-51)	Building G – Throughout	ND (Yellow Mastic ND)	---
0350-1203-52A, 52B, 52C	**12" Vinyl Tile: Off-White/Gray W/ Dark Gray & Black Streaks (HA-52)**	**Building G – Throughout (3,050 sf)**	**6% Chrysotile Floor Tile (5% Chrysotile Black Mastic)**	**N**

Sample Number	Description (Homogenous Area Number)	Locations and Approximate Quantity (if ACM)	Asbestos Content	Friable? (Y/N, if ACM)
0350-1203-53A, 53B, 53C	Base Cove Mastic: Brown (HA-53)	Building G – Throughout	ND	---
0350-1203-54A, 54B, 54C	Base Cove Mastic: Tan (HA-54)	Building G – Room 3	ND	---
0350-1203-55A, 55B, 55C	2'x4' Ceiling Tile: White w/ Pocks (HA-55)	Building G – Room 3	ND	---
0350-1203-56A, 56B, 56C	2'x4' Ceiling Tile: White Smooth (HA-56)	Building G – Room 4	ND	---
0350-1203-57A, 57B, 57C	Exterior HVAC Duct Insulation & Mastic: White Wrap/Yellow Insulation (HA-57)	Building G – Eastern Side	ND (Insulation ND)	---
0350-1203-58A, 58B, 58C	**HVAC Seam Sealant: Tan (HA-58)**	**Building G – Rooms 3, 4, and 5 (50 sf)**	**5% Chrysotile**	**Y**
0350-1204-59A, 59B	Roofing Membrane And Sheathing: White Membrane W/ Drywall-Like Material (HA-59)	Building G – Roof	ND	---
0350-1204-60A, 60B, 60C	Roofing Sealant: Gray (HA-60)	Building G – Roof	ND	---
0350-1204-61A, 61B, 61C	HVAC Sealant: Gray (HA-61)	Building G – Roof	ND	---
0350-1204-62A, 62B, 62C	Flashing/Penetration Sealant: Gray (HA-62)	Building G – Roof	ND	---
0350-1204-63A, 63B	Rubber Membrane & Fibrous Insulation: Black/Tan (HA-63)	Building F – Roof	N (Tan Insulation ND)	---
0350-1204-64A	Tar & Gravel: Black (HA-64)	Building F – Roof	ND	---

Sample Number	Description (Homogenous Area Number)	Locations and Approximate Quantity (if ACM)	Asbestos Content	Friable? (Y/N, if ACM)
0350-1204-65A	Rubber Membrane & Fibrous Insulation: Black/Light Brown (HA-65)	Building E – Roof	ND	---
0350-1204-66A	Tar & Gravel: Black (HA-66)	Building E – Roof	ND	---
0350-1204-67A, 67B, 67C	Asphalt Shingle: Blue-gray (HA-67)	Building H – Roof	ND	---
0350-1204-68A, 68B, 68C	Flashing Caulk: Beige (HA-68)	Building H – Roof	ND	---
0350-1204-69A, 69B, 69C	HVAC Sealant Paint (Test Paint Only): Black (HA-69)	Building H – Roof	ND	---
0350-1204-70A	Fibrous Foamboard Facing (HA-70)	Building H – Roof	ND	---
0350-1204-71A	Foamboard (HA-71)	Building C – Roof	ND	---
0350-1204-72A	Fibrous Insulation (HA-72)	Building C – Roof	ND	---
0350-1204-73A, 73B, 73C	**HVAC Duct Insulation: White Wrap/Yellow Insulation (HA-73)**	**Building C – Roof (125 sf)**	**3% Chrysotile**	**Y**
0350-1204-74A, 74B, 74C	Flashing Caulk: Tan (HA-74)	Building C – Roof	ND	---
0350-1204-75A, 75B, 75C	**Roofing Membrane and Sealant: Black/Gray (HA-75)**	**Building B – Roof (2,500 sf)**	**<1% Chrysotile**	**N**
0350-1204-76A, 76B, 76C	Asphalt Shingle (Base) (HA-76)	Building B – Roof	ND	---
0350-1204-77A, 77B, 77C	Tar & Gravel Roofing (Multiple Layers) (HA-77)	Building B – Roof	ND (Insulation ND)	---

Sample Number	Description (Homogenous Area Number)	Locations and Approximate Quantity (if ACM)	Asbestos Content	Friable? (Y/N, if ACM)
0350-1204-78A, 78B, 78C	**HVAC Duct Insulation & Mastic: White wrap/yellow insulation (HA-78)**	**Building B – Roof (150 sf)**	**ND (Mastic 3% Chrysotile)**	**Y**
0350-1204-79A, 79B, 79C	Roofing Sealant: Black (HA-79)	Building A – Roof	ND	---
0350-1204-80A, 80B	3' Wide Asphalt Roofing & Sealant (HA-80)	Building A – Roof	ND (Sealant ND)	---
0350-1204-81A, 81B, 81C	Building A Roof - Silver Paint and HVAC Duct Sealant (HA-81)	Building A – Roof	ND	---
0350-1204-82A, 82B, 82C	Tar Sealant (on bracing): Black (HA-82)	Building A – Roof	ND	---
0350-1204-83A, 83B, 83C	Ceiling Tile Adhesive: Brown (HA-83)	Building A – Throughout	ND	---
0350-1204-84A, 84B, 84C	Ceiling Tile Adhesive: Brown (HA-84)	Building C – Throughout	ND	---

ND – No asbestos fibers Detected.

Based upon the results of the ACM survey and laboratory analysis of the SACM samples, ACMs are present in the form of the floor tiles within Buildings A and C; the floor tiles and associated mastics in Buildings F and G; the HVAC seam sealant in Building G; the HVAC duct wrap and insulation in Building C; and the HVAC mastic in Building B. The roofing membrane and associated sealant on Building B was identified as containing trace (less than one percent) asbestos.

Lead-Based Paint Survey

Triad conducted the LBP survey utilizing an X-ray fluorescence (XRF) unit in general accordance with the procedures and directives described in the U.S. Department of Housing and Urban Development (HUD) guidance document *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards*, June 1997. The inspection consisted of testing the lead concentrations of painted surfaces using a RMD-LPA1 XRF unit. Typical tested surfaces included, but were not necessarily limited to, walls, interior and exterior door components, interior and exterior window components, ceramic tiles, and casework. With respect to the naming convention of walls within the structures, the “A” Wall refers to the northern most side of the structure. The “B,” “C,” and “D” Walls are subsequently named in a clockwise fashion. The Summary Report identifying surfaces exceeding 0.7 mg/cm^2 is included as follows:

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	12/01/14
Report Date:	12/12/2014
Abatement Level:	0.7
Report No.	S#02945 - 12/01/14 09:31
Total Readings:	431 Actionable: 24
Job Started:	12/01/14 09:31
Job Finished:	12/01/14 15:58

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Bldg A Ext.									
204	D	Foundation	Lft		F	N/A	N/A	0.7	QM
Exterior Room 003 Bldg C Ext.									
349	D	Window	Ctr	Rgt jamb	F	Wood	Cream	1.2	QM
353	D WN4	Window	Ctr	Sill	F	Wood	Cream	3.8	QM
Exterior Room 004 Bldg H Ext.									
395	D D2	Door	Ctr	Lft jamb	F	Metal	Cream	0.7	QM
Interior Room 004 Bldg A Rm04									
057	D	Header	Ctr		F	Wood	White	2.0	QM
Interior Room 006 Bldg A Rm06									
063	A	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 007 Bldg A Rm07									
068	C	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 008 Bldg A Rm08									
071	A	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 027 Bldg B Rm09									
174	C	Pipe	Ctr		F	Metal	Red	0.7	QM
Interior Room 028 Bldg B Rm10									
179	D	Toilet Shelf	Ctr		F	Porcelain	White	5.5	QM
180	D	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 029 Bldg B Rm11									
183	A	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 032 Bldg C Rm01									
215	B	Conduit	Ctr		I	Metal	White	0.7	QM
Interior Room 038 Bldg C Rm07									
255	B	Sink	Ctr		I	Porcelain	White	>9.9	QM
Interior Room 039 Bldg C Rm08									

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
261	C	Framing Hdr	Ctr		I	Wood	White	2.3	QM
Interior Room 040 Bldg C Rm09									
266	B	Sink	Ctr		I	Porcelain	White	>9.9	QM
	Lg. Sink								
267	B	Sink	Ctr		I	Porcelain	White	>9.9	QM
	Sm. Sink								
Interior Room 041 Bldg C Rm10									
273	A	Wall	U Ctr		I	Drywall	White	1.5	QM
Interior Room 043 Bldg C Rm12									
292	C	Urinal	Ctr		F	Porcelain	White	1.3	QM
296	D	Sink	Ctr		F	Porcelain	White	>9.9	QM
297	D	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 047 Bldg C Rm16									
326	D	Door	Ctr	Header	F	Wood	Cream	1.8	QM
Interior Room 061 Bldg E Rm01									
411	C	Pipe	Ctr		F	Metal	Red	1.1	QM
Interior Room 062 Bldg E Rm02									
417	C	I-Beam	Ctr		F	Metal	White	9.7	QM
Calibration Readings									
Calibration Readings									
Calibration Readings									

---- End of Readings ----

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 12/02/14
Report Date: 12/12/2014
Abatement Level: 1.0
Report No. S#02945 - 12/02/14 15:48
Total Readings: 25 Actionable: 2
Job Started: 12/02/14 15:48
Job Finished: 12/04/14 09:43

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Bldg F Ext.									
024	B	Soffit			F	Metal	Cream	1.0	QM
Interior Room 001 Bldg FSouth									
003	A	Wall	U Ctr		F	Drywall	White	1.0	Std
Calibration Readings									

---- End of Readings ----

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 12/04/14
Report Date: 12/12/2014
Abatement Level: 0.7
Report No. S#02945 - 12/04/14 09:44
Total Readings: 93 Actionable: 5
Job Started: 12/04/14 09:44
Job Finished: 12/05/14 11:05

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 003 Bldg G Roof									
066	A	Exhaust Fan domed	Ctr		I	Metal	Tan	0.7	QM
067	A	Exhaust Fan cylindrical	Ctr		I	Metal	Tan	0.7	QM
065	D	Drip Edge	Ctr		I	Metal	Tan	1.0	QM
Interior Room 001 Bldg G Rm03									
024	A	I-Beam	Ctr		I	Metal	White	3.5	QM
020	C	I-Beam	Ctr		I	Metal	White	>9.9	QM
Calibration Readings									

---- End of Readings ----

Numerous paints and surface coatings were identified that exhibited a lead content greater than or equal to 0.7 mg/cm^2. Specifically, exterior door and window components, structural framing members, piping, and roofing penetrations were commonly identified as LBP. Ceramic tiles, porcelain toilets, and sinks also exhibited a lead content greater than or equal to 0.7 mg/cm^2. The Detailed Reports of Lead Paint Inspection, including all testing combinations and locations and the RMD-LPA1 Performance Characteristic Sheet, is included in **Appendix D**.

Hazardous Materials Inventory

The hazardous materials inventory included visually identifying the location and approximate quantity of potential polychlorinated biphenyl (PCB)-containing fixtures and materials, mercury-containing fixtures and equipment, and other potentially hazardous materials. In order to assess for the potential presence of PCB-containing light ballasts, Triad inspected a representative number of fluorescent light fixture ballasts for “No PCB” labels. Each of the observed ballasts was labeled as “No PCB’s”. Physical sampling of light ballasts, lamps, or other fixtures for PCB or mercury content is not within the scope of this survey. Each of these fluorescent fixtures contained potential mercury-containing lamps. No other PCB- or mercury-containing fixtures were observed in the renovation area.

RECOMMENDATIONS

Based on the results of Triad’s investigations at the Site, Triad’s recommendations are as follows:

- **ACM Survey** – ACMs identified at the site include the floor tiles within Buildings A and C; the floor tiles and associated mastics in Buildings F and G; the HVAC seam sealant in Building G; the HVAC duct wrap and insulation in Building C; and the HVAC mastic in Building B. The roofing membrane and associated sealant on Building B was identified as containing trace (less than one percent) asbestos. The floor tiles and associated mastic are Category I non-friable ACMs according to NESHAP, which would only become a regulated ACM if it has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act upon it during demolition. The asbestos-containing HVAC duct wrap, insulation, and mastic, are all considered friable ACM and regulated under NESHAP. Triad recommends that these materials be removed and disposed of as asbestos waste by a Maryland-accredited asbestos abatement contractor in accordance with applicable EPA, OSHA, and Maryland requirements.

- **LBP Survey** – ***As previously stated, any removal or management of LBP or lead-containing surfaces during this project is considered incidental to the demolition project. The planned demolition will not be designed as or intended to constitute a lead abatement activity or to reduce or eliminate a lead-based paint hazard***. However, care should be taken during any demolition activity that will involve removal or disturbance of LBP or lead-containing surface coatings to prevent contamination of the work area or adjacent spaces by lead dust or debris. Furthermore, any demolition work during which employees may be occupationally exposed to lead must be conducted in accordance with OSHA lead-safe work practices as set forth in 40 CFR 1926.62. This includes any disturbance of LBP or any lead-containing surface coating.

- **Hazardous Materials Inventory** – Fluorescent light fixtures equipped with mercury-containing lamps were observed at the site. These lamps should be carefully removed and disposed of in accordance with EPA Universal Waste requirements during demolition. If any fluorescent fixture ballast encountered during demolition is not specifically labeled as non-PCB-containing, it should be assumed to contain PCBs and disposed of as such.

Triad made a reasonable effort to locate and sample all areas of SACM or potential LBP in the structure and identify all hazardous materials equipment during the field surveys. However, Triad stresses that the Hazardous Materials Survey was inherently limited to those conditions readily accessible to the Triad team during the field surveys. Conditions inside enclosed walls, pipe chases, or other inaccessible areas inside the site structure or historical conditions not previously divulged to Triad may not have been identified or otherwise assessed during this survey.

Triad makes no other warranty, either expressed or implied, as to the professional services contained herein. If you should have any questions or require further assistance, please contact us at 703.729.3456.

Sincerely,

Triad Engineering, Inc.

Bradley C. Pearson, CIH, CHMM
Certified Industrial Hygienist

Jeffrey H. Mitchell, CPG
Environmental Services Manager

Appendices

Appendix A – Inspector and Laboratory Accreditations
Appendix B – Asbestos Laboratory Analysis Report
Appendix C – Structure Sketches Showing ACM Locations
Appendix D – Lead-Based Paint Inspection Reports

APPENDIX A

INSPECTOR AND LABORATORY ACCREDITATIONS

TRIAD ENGINEERING, INC.

Brandon Colunga

Name

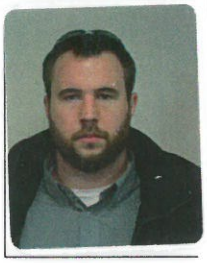
Signature

HAS ATTENDED AND PASSED THE EXAM IN AN ASBESTOS TRAINING COURSE ENTITLED:

INSPECTOR INITIAL

Course Name

FOR ACCREDITATION UNDER TSCA TITLE II.



(STATE SEAL IS BLUE)

02/12/2014	02/12/2015	02/27/2014
Course Date(s)	Expiration Date	Exam Date

№ 125648

STATE OF MARYLAND

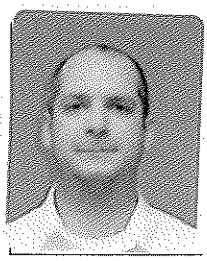
Brad Pearson
Name

Signature

HAS ATTENDED AND PASSED THE EXAM IN AN ASBESTOS TRAINING COURSE ENTITLED:

PROJECT DESIGNER REFRESHER
Course Name

FOR ACCREDITATION UNDER TSCA TITLE II.



(STATE SEAL IS BLUE)

01/24/2014	01/24/2015	02/27/2014
Course Date(s)	Expiration Date	Exam Date

№ 126153

STATE OF MARYLAND

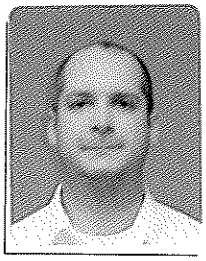
Brad Pearson
Name

Signature

HAS ATTENDED AND PASSED THE EXAM IN AN ASBESTOS TRAINING COURSE ENTITLED:

INSPECTOR REFRESHER
Course Name

FOR ACCREDITATION UNDER TSCA TITLE II.



(STATE SEAL IS BLUE)

02/10/2014	02/10/2015	02/27/2014
Course Date(s)	Expiration Date	Exam Date

№ 125649

STATE OF MARYLAND

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SanAir Technologies Laboratory, Inc.
1551 Oakbridge Drive
Suite B
Powhatan, VA 23139
Ms. Sandra Sobrino
Phone: 804-897-1177 Fax: 804-897-0070
E-Mail: ssobrino@sanair.com
URL: http://www.sanair.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 200870-0**

NVLAP Code	*Designation / Description*
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

2014-04-01 through 2015-03-31

Effective dates

For the National Institute of Standards and Technology

APPENDIX B

ASBESTOS LABORATORY ANALYSIS REPORTS

TRIAD ENGINEERING, INC.

SanAir Technologies Laboratory

Analysis Report

prepared for

Triad Engineering, Inc.

Report Date: 12/11/2014
Project Name: Former CPSC Site
Project #: 03-14-0350
SanAir ID#: 14033706

NVLAP LAB CODE 200870-0

Virginia SBE
Certification # 652931

Texas Licensed Mold Analysis Laboratory
License # LAB0166

SanAir Technologies Laboratory

804.897.1177 www.sanair.com

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

Triad Engineering, Inc.
1097 Chaplin Road
Morgantown, WV 26501

December 11, 2014

SanAir ID # 14033706
Project Name: Former CPSC Site
Project Number: 03-14-0350

Dear Brandon Colunga,

We at SanAir would like to thank you for the work you recently submitted. The 232 sample(s) were received on Tuesday, December 09, 2014 via FedEx. The final report(s) is enclosed for the following sample(s): 0350-1202-1A, 0350-1202-1B, 0350-1202-1C, 0350-1202-2A, 0350-1202-2B, 0350-1202-2C, 0350-1202-3A, 0350-1202-3B, 0350-1202-3C, 0350-1202-4A, 0350-1202-4B, 0350-1202-4C, 0350-1202-5A, 0350-1202-5B, 0350-1202-5C, 0350-1202-6A, 0350-1202-6B, 0350-1202-6C, 0350-1202-7A, 0350-1202-7B, 0350-1202-7C, 0350-1202-8A, 0350-1202-8B, 0350-1202-8C, 0350-1202-9A, 0350-1202-9B, 0350-1202-9C, 0350-1202-10A, 0350-1202-10B, 0350-1202-10C, 0350-1202-11A, 0350-1202-11B, 0350-1202-11C, 0350-1202-12A, 0350-1202-12B, 0350-1202-12C, 0350-1202-13A, 0350-1202-13B, 0350-1202-13C, 0350-1202-14A, 0350-1202-14B, 0350-1202-14C, 0350-1202-15A, 0350-1202-15B, 0350-1202-15C, 0350-1202-16A, 0350-1202-16B, 0350-1202-16C, 0350-1202-17A, 0350-1202-17B, 0350-1202-17C, 0350-1202-18A, 0350-1202-18B, 0350-1202-18C, 0350-1202-19A, 0350-1202-19B, 0350-1202-19C, 0350-1202-20A, 0350-1202-20B, 0350-1202-20C, 0350-1202-21A, 0350-1202-21B, 0350-1202-21C, 0350-1202-22A, 0350-1202-22B, 0350-1202-22C, 0350-1202-23A, 0350-1202-23B, 0350-1202-23C, 0350-1202-24A, 0350-1202-24B, 0350-1202-24C, 0350-1202-25A, 0350-1202-25B, 0350-1202-25C, 0350-1202-26A, 0350-1202-26B, 0350-1202-26C, 0350-1202-27A, 0350-1202-27B, 0350-1202-27C, 0350-1203-28A, 0350-1203-28B, 0350-1203-28C, 0350-1203-29A, 0350-1203-29B, 0350-1203-29C, 0350-1203-30A, 0350-1203-30B, 0350-1203-30C, 0350-1203-31A, 0350-1203-31B, 0350-1203-31C, 0350-1203-32A, 0350-1203-32B, 0350-1203-32C, 0350-1203-33A, 0350-1203-33B, 0350-1203-33C, 0350-1203-34A, 0350-1203-34B, 0350-1203-34C, 0350-1203-35A, 0350-1203-35B, 0350-1203-35C, 0350-1203-36A, 0350-1203-36B, 0350-1203-36C, 0350-1203-37A, 0350-1203-37B, 0350-1203-37C, 0350-1203-38A, 0350-1203-38B, 0350-1203-38C, 0350-1203-39A, 0350-1203-39B, 0350-1203-39C, 0350-1203-40A, 0350-1203-40B, 0350-1203-40C, 0350-1203-41A, 0350-1203-41B, 0350-1203-41C, 0350-1203-42A, 0350-1203-42B, 0350-1203-42C, 0350-1203-43A, 0350-1203-43B, 0350-1203-43C, 0350-1203-44A, 0350-1203-44B, 0350-1203-44C, 0350-1203-45A, 0350-1203-45B, 0350-1203-45C, 0350-1203-46A, 0350-1203-46B, 0350-1203-46C, 0350-1203-47A, 0350-1203-47B, 0350-1203-47C, 0350-1203-48A, 0350-1203-48B, 0350-1203-48C, 0350-1203-49A, 0350-1203-49B, 0350-1203-49C, 0350-1203-50A, 0350-1203-50B, 0350-1203-50C, 0350-1203-51A, 0350-1203-51B, 0350-1203-51C, 0350-1203-52A, 0350-1203-52B, 0350-1203-52C, 0350-1203-53A, 0350-1203-53B, 0350-1203-53C, 0350-1203-54A, 0350-1203-54B, 0350-1203-54C, 0350-1203-55A, 0350-1203-55B, 0350-1203-55C, 0350-1203-56A, 0350-1203-56B, 0350-1203-56C, 0350-1203-57A, 0350-1203-57B, 0350-1203-57C, 0350-1203-58A, 0350-1203-58B, 0350-1203-58C, 0350-1204-59A, 0350-1204-59B, 0350-1204-60A, 0350-1204-60B, 0350-1204-60C, 0350-1204-61A, 0350-1204-61B, 0350-1204-61C, 0350-1204-62A, 0350-1204-62B, 0350-1204-62C,

[illegible] Manager
Sandra Sobrino

Sandra

Disclaimer

The final report cannot be reproduced, except in full, without written authorization from SanAir. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government.

For NY state samples, method EPA 600/M4-82-020 is performed.

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

NY ELAP lab ID 11983

SanAir Technologies Laboratory
1551 Oakbridge Drive Suite B
Powhatan, VA 23139
804-897-1177 / 888-895-1177
Fax 804-897-0070
www.sanair.com

Asbestos Chain of Custody

SanAir ID Number: 14033706

Company: Triad Engineering, Inc	Project #: 03-14-0350	Collected by: BJC
Address: 21641 Beaumeade Circle	Project Name: Former CPSC Site	Phone #: (703) 729-3456
City, St., Zip: Ashburn, Virginia 20147	Date Collected: 12/2/14-12/4/14	Fax #: (703) 729-3459
State of Collection: Maryland Account#:	P.O. Number:	Email: bcolunga@triadeng.com

Bulk

ABB	PLM EPA 600/R-93/116	☑
	Positive Stop ☑	
ABEPA	PLM EPA 400 Point Count	☐
ABB1K	PLM EPA 1000 Point Count	☐
ABBEN	PLM EPA NOB	☐
ABBCH	TEM Chatfield	☐
ABBTM	TEM EPA NOB	☐

Water

ABHE	EPA 100.2	☐

Air

ABA	PCM NIOSH 7400	☐
ABA-2	OSHA w/ TWA*	☐
ABTEM	TEM AHERA	☐
ABATN	TEM NIOSH 7402	☐
ABT2	TEM Level II	☐

New York ELAP

PLM NY	PLM EPA 600/M4-82-020	☐
ABEPA2	NY ELAP 198.1	☐
ABENY	NY ELAP 198.6 PLM NOB	☐
ABBNY	NY ELAP 198.4 TEM NOB	☐

Soil/Vermiculite

ABSE	PLM EPA 600/R-93/116 (Qual.)	☐
ABSP	PLM CARB 435 (LOD <1%)	☐
ABSP1	PLM CARB 435 (LOD 0.25%)	☐
ABSP2	PLM CARB 435 (LOD 0.1%)	☐

Dust

ABWA	TEM Wipe ASTM D-6480	☐
ABDMV	TEM Microvac ASTM D-5755	☐

Other

Matrix		
		☐

Turn Around Times				
	3 HR (4 HR TEM) ☐	6 HR (8HR TEM) ☐	12 HR ☐	24 HR ☐
	2 Days ■	3 Days ☐	4 Days ☐	5 Days ☐

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Type	Flow Rate*	Time* Start	Time* Stop
0350-1202-1A,1B,1C	Building A - Drywall	N/A	Bulk	N/A	N/A	N/A
0350-1202-2A,2B,2C	Building A - 12" Vinyl Floor Tile and Mastic: white w/ gray flecks	N/A	Bulk	N/A	N/A	N/A
0350-1202-3A,3B,3C	Building A - Pipe Insulation: white wrap/yellow insulation	N/A	Bulk	N/A	N/A	N/A
0350-1202-4A,4B,4C	Building A - Drywall	N/A	Bulk	N/A	N/A	N/A
0350-1202-5A,5B,5C	Building A - Durock	N/A	Bulk	N/A	N/A	N/A
0350-1202-6A,6B,6C	Building A - Base Cove Mastic: yellowish-tan	N/A	Bulk	N/A	N/A	N/A
0350-1202-7A,7B,7C	Building A - 12" Ceiling Tile: white w/ pocks and fissures	N/A	Bulk	N/A	N/A	N/A
0350-1202-8A,8B,8C	Building A - 12" Ceiling Tile: off-white w/ pocks	N/A	Bulk	N/A	N/A	N/A
0350-1202-9A,9B,9C	Building A - 2' Ceiling Tile: white w/ pocks	N/A	Bulk	N/A	N/A	N/A
0350-1202-10A,10B,10C	Building A - 12" Vinyl Floor Tile and Mastic: tan w/ gray streaks	N/A	Bulk	N/A	N/A	N/A
0350-1202-11A,11B,11C	Building A - Pipe Fittings: white wrap w/ cementious material	N/A	Bulk	N/A	N/A	N/A
0350-1202-12A,12B,12C	Building A - Exterior Window Caulk: tan	N/A	Bulk	N/A	N/A	N/A

Relinquished by	Date	Time	Received by	Date	Time
			MC	DEC 09 2014	9:30AM

Unless scheduled, the turn around time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time. Work with standard turn around time sent Priority Overnight and Billed to Recipient will be charged a $10 shipping fee.

14033706

Sample #	Sample Identification/Location	Sample Type	Flow Rate*	Time* Start – Stop	
0350-1202-13A,13B,13C	Building B - Drywall	Bulk	N/A	N/A	N/A
0350-1202-14A,14B,14C	Building B - 2'x4' Ceiling Tile: white w/ latitudinal fissures and pocks	Bulk	N/A	N/A	N/A
0350-1202-15A,15B,15C	Building B - 12" Vinyl Floor Tile and Mastic: white w/ gray flecks	Bulk	N/A	N/A	N/A
0350-1202-16A,16B,16C	Building B - Base Cove Mastic: tan	Bulk	N/A	N/A	N/A
0350-1202-17A,17B,17C	Building B - Exterior Window Caulk: tan	Bulk	N/A	N/A	N/A
0350-1202-18A,18B,18C	Building C - Drywall	Bulk	N/A	N/A	N/A
0350-1202-19A,19B,19C	Building C - 12" Vinyl Floor Tile: white w/ gray flecks	Bulk	N/A	N/A	N/A
0350-1202-20A,20B,20C	Building C - 12" Vinyl Floor Tile: tan w/ gray streaks	Bulk	N/A	N/A	N/A
0350-1202-21A,21B,21C	Building C - 12" Ceiling Tile: white w/ pocks	Bulk	N/A	N/A	N/A
0350-1202-22A,22B,22C	Building C - Pipe Insulation: white wrap/yellow insulation	Bulk	N/A	N/A	N/A
0350-1202-23A,23B,23C	Building C - Base Cove Mastic: tan	Bulk	N/A	N/A	N/A
0350-1202-24A,24B,24C	Building C - Exterior Window Caulk: tan	Bulk	N/A	N/A	N/A
0350-1202-25A,25B,25C	Building C - Pipe Insulation: blue wrap	Bulk	N/A	N/A	N/A
0350-1202-26A,26B,26C	Building C - Pipe Insulation: red wrap	Bulk	N/A	N/A	N/A
0350-1202-27A,27B,27C	Building C - Pipe Insulation: black wrap	Bulk	N/A	N/A	N/A
0350-1203-28A,28B,28C	Building H - Drywall	Bulk	N/A	N/A	N/A
0350-1203-29A,29B,29C	Building H - Fibrous Carpet Underlay: black	Bulk	N/A	N/A	N/A
0350-1203-30A,30B,30C	Building H - Base Cove Mastic: light brown	Bulk	N/A	N/A	N/A
0350-1203-31A,31B,31C	Building H - 2'x4' Ceiling Tile: white w/ latitudinal fissures and pocks	Bulk	N/A	N/A	N/A
0350-1203-32A,32B,32C	Building H - Pipe Insulation: white wrap/yellow insulation	Bulk	N/A	N/A	N/A
0350-1203-33A,33B,33C	Building H - 12" Vinyl Floor Tile: white w/ gray, tan, &pink flecks	Bulk	N/A	N/A	N/A
0350-1203-34A,34B,34C	Building H - 2'x4' Ceiling Tile: white w/ pocks	Bulk	N/A	N/A	N/A
0350-1203-35A,35B,35C	Building H - 2'x4' Ceiling Tile: off-white w/ pinholes	Bulk	N/A	N/A	N/A
0350-1203-36A,36B,36C	Building H - 2'x4' Ceiling Tile: smooth white	Bulk	N/A	N/A	N/A
0350-1203-37A,37B,37C	Building H - Exterior Door/Window Caulk: light brown/gray	Bulk	N/A	N/A	N/A
0350-1203-38A,38B,38C	Building E - Exterior HVAC Duct Insulation & Mastic: white wrap/yellow insulation	Bulk	N/A	N/A	N/A
0350-1203-39A,39B,39C	Building E - Exterior Door/Window Caulk: gray	Bulk	N/A	N/A	N/A
0350-1203-40A,40B,40C	Building F - Drywall	Bulk	N/A	N/A	N/A
0350-1203-41A,41B,41C	Building F - 12" Vinyl Floor Tile: white w/ gray flecks	Bulk	N/A	N/A	N/A
0350-1203-42A,42B,42C	Building F - Base Cove Mastic:brown	Bulk	N/A	N/A	N/A
0350-1203-43A,43B,43C	Building F - 2'x4' Ceiling Tile: white w/ latitudinal fissures and pocks	Bulk	N/A	N/A	N/A

Special Instructions	The sample numbers on the bags were mislabeled "0450" instead of "0350." Please report as 0350-120X-XX.

Relinquished by	Date	Time	Received by	Date	Time
			MC	DEC 09 2014	9:30AM

Unless scheduled, the turn around time for all samples received after 3 pm Friday will begin at 8 am Monday morning.
Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time.
Work with standard turn around time sent Priority Overnight and Billed to Recipient will be charged a $10 shipping fee.

14033706

Sample #	Sample Identification/Location	Sample Type	Flow Rate*	Time* Start – Stop	
0350-1203-44A,44B,44C	Building F - 2'x4' Ceiling Tile: white w/ pocks	Bulk	N/A	N/A	N/A
0350-1203-45A,45B,45C	Building F - Exterior Door/Window Caulk: gray	Bulk	N/A	N/A	N/A
0350-1203-46A,46B,46C	Building F - Exterior HVAC Duct Insulation & Mastic: white wrap/yellow insulation	Bulk	N/A	N/A	N/A
0350-1203-47A,47B,47C	Guardhouse - Drywall	Bulk	N/A	N/A	N/A
0350-1203-48A,48B,48C	Guardhouse - Exterior Door/Window Caulk: white	Bulk	N/A	N/A	N/A
0350-1203-49A,49B,49C	Building G - Drywall	Bulk	N/A	N/A	N/A
0350-1203-50A,50B,50C	Building G - 2'x4' Ceiling Tile: white w/ latitudinal fissures and pocks	Bulk	N/A	N/A	N/A
0350-1203-51A,51B,51C	Building G - 12" Vinyl Floor Tile: tan w/ gray flecks	Bulk	N/A	N/A	N/A
0350-1203-52A,52B,52C	Building G - 12" Vinyl Tile: off-white/gray w/ dark gray & black streaks	Bulk	N/A	N/A	N/A
0350-1203-53A,53B,53C	Building G - Base Cove Mastic: brown	Bulk	N/A	N/A	N/A
0350-1203-54A,54B,54C	Building G - Base Cove Mastic: tan	Bulk	N/A	N/A	N/A
0350-1203-55A,55B,55C	Building G - 2'x4' Ceiling Tile: white w/pocks	Bulk	N/A	N/A	N/A
0350-1203-56A,56B,56C	Building G - Building G - 2'x4' Ceiling Tile: white smooth	Bulk	N/A	N/A	N/A
0350-1203-57A,57B,57C	Building G - Exterior HVAC Duct Insulation & Mastic: white wrap/yellow insulation	Bulk	N/A	N/A	N/A
0350-1203-58A,58B,58C	Building G - HVAC Seam Sealant (Test Sealant Only): tan	Bulk	N/A	N/A	N/A
0350-1204-59A,59B	Building G Roof - Roofing Membrane and Sheathing: white membrane w/ drywall-like material	Bulk	N/A	N/A	N/A
0350-1204-60A,60B,60C	Building G Roof - Roofing Sealant: gray	Bulk	N/A	N/A	N/A
0350-1204-61A,61B,61C	Building G Roof - HVAC Sealant: gray	Bulk	N/A	N/A	N/A
0350-1204-62A,62B,62C	Building G Roof - Flashing/Penetration Sealant: gray	Bulk	N/A	N/A	N/A
0350-1204-63A,63B,63C	Building F Roof - Rubber Membrane & Fibrous Insulation: black/light brown	Bulk	N/A	N/A	N/A
0350-1204-64A	Building F Roof - Tar & Gravel: black	Bulk	N/A	N/A	N/A
0350-1204-65A	Building E Roof - Rubber Membrane & Fibrous Insulation: black/light brown	Bulk	N/A	N/A	N/A
0350-1204-66A	Building E Roof - Tar & Gravel: black	Bulk	N/A	N/A	N/A
0350-1204-67A,67B,67C	Building H Roof - Asphalt Shingle: blue-gray	Bulk	N/A	N/A	N/A
0350-1204-68A,68B,68C	Building H Roof - Flashing Caulk: beige	Bulk	N/A	N/A	N/A
0350-1204-69A,69B,69C	Building H Roof - HVAC Sealant Paint (Test Paint Only): black	Bulk	N/A	N/A	N/A
0350-1204-70A	Building H Roof - Fibrous Foam Board Facing	Bulk	N/A	N/A	N/A
0350-1204-71A	Building C Roof - Foamboard	Bulk	N/A	N/A	N/A
0350-1204-72A	Building C Roof - Fibrous Insulation	Bulk	N/A	N/A	N/A
0350-1204-73A,73B,73C	Building C Roof - HVAC Duct Insulation: white wrap/yellow insulation	Bulk	N/A	N/A	N/A
0350-1204-74A,74B,74C	Building C Roof - Flashing Caulk: tan	Bulk	N/A	N/A	N/A

Special Instructions	The sample numbers on the bags were mislabeled "0450" instead of "0350." Please report as 0350-120X-XX.

Relinquished by	Date	Time	Received by	Date	Time
			ML	DEC 09 2014	9:30AM

Unless scheduled, the turn around time for all samples received after 3 pm Friday will begin at 8 am Monday morning.
Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time.
Work with standard turn around time sent Priority Overnight and Billed to Recipient will be charged a $10 shipping fee.

14033706

Sample #	Sample Identification/Location	Sample Type	Flow Rate*	Time* Start – Stop	
0350-1204-75A,75B,75C	Building B Roof - Roofing Membrane and Sealant: black/gray	Bulk	N/A	N/A	N/A
0350-1204-76A,76B,76C	Building B Roof - Asphalt Shingle (base)	Bulk	N/A	N/A	N/A
0350-1204-77A,77B,77C	Building B Roof - Tar & Gravel Roofing (multiple layers)	Bulk	N/A	N/A	N/A
0350-1204-78A,78B,78C	Building B Roof - HVAC Duct Insulation & Mastic: White wrap/yellow insulation	Bulk	N/A	N/A	N/A
0350-1204-79A,79B,79C	Building A Roof - Roofing Sealant: black	Bulk	N/A	N/A	N/A
0350-1204-80A,80B	Building A Roof - 3' Wide Asphalt Roofing & Sealant	Bulk	N/A	N/A	N/A
0350-1204-81A,81B,81C	Building A Roof - Silver Paint and HVAC Duct Sealant	Bulk	N/A	N/A	N/A
0350-1204-82A,82B,82C	Building A Roof - Tar Sealant (on bracing): black	Bulk	N/A	N/A	N/A

Special Instructions	The sample numbers on the bags were mislabeled "0450" instead of "0350." Please report as 0350-120X-XX.

Relinquished by	Date	Time	Received by	Date	Time
			ML	DEC 09 2014	9:39AM

Unless scheduled, the turn around time for all samples received after 3 pm Friday will begin at 8 am Monday morning.
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Address: 1097 Chaplin Road
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P.O. Number:
Project Name: Former CPSC Site

Collected Date: 12/2/2014
Received Date: 12/9/2014 9:30:00 AM
Report Date: 12/11/2014 4:07:53 PM
Analyst: Fisher, Toni

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-1A / 14033706-001 Building A - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-1B / 14033706-002 Building A - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-1C / 14033706-003 Building A - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-2A / 14033706-004 Building A - 12" Vinyl Floor Tile And Mastic, Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-2A / 14033706-004 Building A - 12" Vinyl Floor Tile And Mastic, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-2B / 14033706-005 Building A - 12" Vinyl Floor Tile And Mastic, Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-2B / 14033706-005 Building A - 12" Vinyl Floor Tile And Mastic, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-2C / 14033706-006 Building A - 12" Vinyl Floor Tile And Mastic, Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-2C / 14033706-006 Building A - 12" Vinyl Floor Tile And Mastic, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature:
Date: 12/11/2014

Reviewed: Sandra Sobrino
Date: 12/11/2014

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-3A / 14033706-007 Building A - Pipe Insulation Wrap with Insulation, Wrap	White Fibrous Homogeneous	55% Cellulose	45% Other	None Detected
0350-1202-3A / 14033706-007 Building A - Pipe Insulation Wrap with Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-3B / 14033706-008 Building A - Pipe Insulation Wrap with Insulation, Wrap	White Fibrous Homogeneous	55% Cellulose	45% Other	None Detected
0350-1202-3B / 14033706-008 Building A - Pipe Insulation Wrap with Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-3C / 14033706-009 Building A - Pipe Insulation Wrap with Insulation, Wrap	White Fibrous Homogeneous	55% Cellulose	45% Other	None Detected
0350-1202-3C / 14033706-009 Building A - Pipe Insulation Wrap with Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-4A / 14033706-010 Building A - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-4B / 14033706-011 Building A - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-4C / 14033706-012 Building A - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-5A / 14033706-013 Building A - Durock	Grey Non-Fibrous Homogeneous	5% Glass	95% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-5B / 14033706-014 Building A - Durock	Grey Non-Fibrous Homogeneous	5% Glass	95% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-5C / 14033706-015 Building A - Durock	Grey Non-Fibrous Homogeneous	5% Glass	95% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-6A / 14033706-016 Building A - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-6B / 14033706-017 Building A - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-6C / 14033706-018 Building A - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

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Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-7A / 14033706-019 Building A - 12" Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-7B / 14033706-020 Building A - 12" Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-7C / 14033706-021 Building A - 12" Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-8A / 14033706-022 Building A - 12" Ceiling Tile	White Fibrous Homogeneous	75% Glass	25% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-8B / 14033706-023 Building A - 12" Ceiling Tile	White Fibrous Homogeneous	75% Glass	25% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-8C / 14033706-024 Building A - 12" Ceiling Tile	White Fibrous Homogeneous	75% Glass	25% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-9A / 14033706-025 Building A - 2' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected

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Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-9B / 14033706-026 Building A - 2' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-9C / 14033706-027 Building A - 2' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-10A / 14033706-028 Building A - 12" Vinyl Floor Tile And Mastic, Floor Tile	Tan Non-Fibrous Homogeneous		98% Other	2% Chrysotile
0350-1202-10A / 14033706-028 Building A - 12" Vinyl Floor Tile And Mastic, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-10B / 14033706-029 Building A - 12" Vinyl Floor Tile And Mastic, Floor Tile				Not Analyzed
0350-1202-10B / 14033706-029 Building A - 12" Vinyl Floor Tile And Mastic, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-10C / 14033706-030 Building A - 12" Vinyl Floor Tile And Mastic, Floor Tile				Not Analyzed
0350-1202-10C / 14033706-030 Building A - 12" Vinyl Floor Tile And Mastic, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected

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Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-11A / 14033706-031 Building A - Pipe Fittings Wrap, Wrap	White Fibrous Homogeneous	60% Cellulose	40% Other	None Detected
0350-1202-11A / 14033706-031 Building A - Pipe Fittings Wrap, Insulation	Grey Fibrous Homogeneous	30% Glass	70% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-11B / 14033706-032 Building A - Pipe Fittings Wrap, Wrap	White Fibrous Homogeneous	60% Cellulose	40% Other	None Detected
0350-1202-11B / 14033706-032 Building A - Pipe Fittings Wrap, Insulation	Grey Fibrous Homogeneous	30% Glass	70% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-11C / 14033706-033 Building A - Pipe Fittings Wrap, Wrap	White Fibrous Homogeneous	60% Cellulose	40% Other	None Detected
0350-1202-11C / 14033706-033 Building A - Pipe Fittings Wrap, Insulation	Grey Fibrous Homogeneous	30% Glass	70% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-12A / 14033706-034 Building A - Exterior Window Caulk	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-12B / 14033706-035 Building A - Exterior Window Caulk	Tan Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-12C / 14033706-036 Building A - Exterior Window Caulk	Tan Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-13A / 14033706-037 Building B - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-13B / 14033706-038 Building B - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-13C / 14033706-039 Building B - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-14A / 14033706-040 Building B - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 15% Glass	25% Other	None Detected
0350-1202-14B / 14033706-041 Building B - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 15% Glass	25% Other	None Detected
0350-1202-14C / 14033706-042 Building B - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 15% Glass	25% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-15A / 14033706-043 Building B - 12" Vinyl Floor Tile And Mastic, Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-15A / 14033706-043 Building B - 12" Vinyl Floor Tile And Mastic, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-15B / 14033706-044 Building B - 12" Vinyl Floor Tile And Mastic, Floor tile	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-15B / 14033706-044 Building B - 12" Vinyl Floor Tile And Mastic, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-15C / 14033706-045 Building B - 12" Vinyl Floor Tile And Mastic, Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-15C / 14033706-045 Building B - 12" Vinyl Floor Tile And Mastic, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-16A / 14033706-046 Building B - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-16B / 14033706-047 Building B - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

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Project Number: 03-14-0350
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Project Name: Former CPSC Site

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Report Date: 12/11/2014 4:07:53 PM
Analyst: Fisher, Toni

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-16C / 14033706-048 Building B - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-17A / 14033706-049 Building B - Exterior Window Caulk	Tan Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-17B / 14033706-050 Building B - Exterior Window Caulk	Tan Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-17C / 14033706-051 Building B - Exterior Window Caulk	Tan Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-18A / 14033706-052 Building C - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-18B / 14033706-053 Building C - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-18C / 14033706-054 Building C - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature:
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Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-19A / 14033706-055 Building C - 12" Vinyl Floor Tile, Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1202-19A / 14033706-055 Building C - 12" Vinyl Floor Tile, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-19B / 14033706-056 Building C - 12" Vinyl Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-19C / 14033706-057 Building C - 12" Vinyl Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-20A / 14033706-058 Building C - 12" Vinyl Floor Tile	Tan Non-Fibrous Homogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-20B / 14033706-059 Building C - 12" Vinyl Floor Tile				Not Analyzed

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-20C / 14033706-060 Building C - 12" Vinyl Floor Tile				Not Analyzed

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0350-1202-21A / 14033706-061 Building C - 12" Ceiling Tile	Tan Fibrous Homogeneous	40% Cellulose 40% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-21B / 14033706-062 Building C - 12" Ceiling Tile	Tan Fibrous Homogeneous	40% Cellulose 40% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-21C / 14033706-063 Building C - 12" Ceiling Tile	Tan Fibrous Homogeneous	40% Cellulose 40% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-22A / 14033706-064 Building C - Pipe Insulation Wrap/ Insulation, Wrap	White Fibrous Homogeneous	40% Cellulose	60% Other	None Detected
0350-1202-22A / 14033706-064 Building C - Pipe Insulation Wrap/ Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-22B / 14033706-065 Building C - Pipe Insulation Wrap/ Insulation, Wrap	White Fibrous Homogeneous	40% Cellulose	60% Other	None Detected
0350-1202-22B / 14033706-065 Building C - Pipe Insulation Wrap/ Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-22C / 14033706-066 Building C - Pipe Insulation Wrap/ Insulation, Wrap	White Fibrous Homogeneous	40% Cellulose	60% Other	None Detected
0350-1202-22C / 14033706-066 Building C - Pipe Insulation Wrap/ Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-23A / 14033706-067 Building C - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-23B / 14033706-068 Building C - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-23C / 14033706-069 Building C - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-24A / 14033706-070 Building C - Exterior Window Caulk	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-24B / 14033706-071 Building C - Exterior Window Caulk	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-24C / 14033706-072 Building C - Exterior Window Caulk	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1202-25A / 14033706-073 Building C - Pipe Insulation Wrap, Wrap	Blue Fibrous Homogeneous	40% Cellulose	60% Other	None Detected
0350-1202-25A / 14033706-073 Building C - Pipe Insulation Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-25B / 14033706-074 Building C - Pipe Insulation Wrap, Wrap	Blue Fibrous Homogeneous	40% Cellulose	60% Other	None Detected
0350-1202-25B / 14033706-074 Building C - Pipe Insulation Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-25C / 14033706-075 Building C - Pipe Insulation Wrap, Wrap	Blue Fibrous Homogeneous	40% Cellulose	60% Other	None Detected
0350-1202-25C / 14033706-075 Building C - Pipe Insulation Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-26A / 14033706-076 Building C - Pipe Insulation Wrap, Wrap	Red Fibrous Homogeneous	40% Cellulose	60% Other	None Detected
0350-1202-26A / 14033706-076 Building C - Pipe Insulation Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-26B / 14033706-077 Building C - Pipe Insulation Wrap, Wrap	Red Fibrous Homogeneous	40% Cellulose	60% Other	None Detected
0350-1202-26B / 14033706-077 Building C - Pipe Insulation Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-26C / 14033706-078 Building C - Pipe Insulation Wrap, Wrap	Red Fibrous Homogeneous	40% Cellulose	60% Other	None Detected
0350-1202-26C / 14033706-078 Building C - Pipe Insulation Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

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0350-1202-27A / 14033706-079 Building C - Pipe Insulation Wrap, Wrap	Black Fibrous Homogeneous	30% Cellulose	70% Other	None Detected
0350-1202-27A / 14033706-079 Building C - Pipe Insulation Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-27B / 14033706-080 Building C - Pipe Insulation Wrap, Wrap	Black Fibrous Homogeneous	30% Cellulose	70% Other	None Detected
0350-1202-27B / 14033706-080 Building C - Pipe Insulation Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1202-27C / 14033706-081 Building C - Pipe Insulation Wrap, Wrap	Black Fibrous Homogeneous	30% Cellulose	70% Other	None Detected
0350-1202-27C / 14033706-081 Building C - Pipe Insulation Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-28A / 14033706-082 Building H - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-28B / 14033706-083 Building H - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-28C / 14033706-084 Building H - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-29A / 14033706-085 Building H - Fibrous Carpet Underlay	Black Fibrous Homogeneous	35% Glass	65% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-29B / 14033706-086 Building H - Fibrous Carpet Underlay	Black Fibrous Homogeneous	35% Glass	65% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-29C / 14033706-087 Building H - Fibrous Carpet Underlay	Black Fibrous Homogeneous	35% Glass	65% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-30A / 14033706-088 Building H - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-30B / 14033706-089 Building H - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-30C / 14033706-090 Building H - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-31A / 14033706-091 Building H - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 30% Glass	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-31B / 14033706-092 Building H - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 30% Glass	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-31C / 14033706-093 Building H - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 30% Glass	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-32A / 14033706-094 Building H - Pipe Insulation Wrap/ Insulation, Wrap	White Fibrous Homogeneous	25% Cellulose	75% Other	None Detected
0350-1203-32A / 14033706-094 Building H - Pipe Insulation Wrap/ Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-32B / 14033706-095 Building H - Pipe Insulation Wrap/ Insulation, Wrap	White Fibrous Homogeneous	25% Cellulose	75% Other	None Detected
0350-1203-32B / 14033706-095 Building H - Pipe Insulation Wrap/ Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-32C / 14033706-096 Building H - Pipe Insulation Wrap/ Insulation, Wrap	White Fibrous Homogeneous	25% Cellulose	75% Other	None Detected
0350-1203-32C / 14033706-096 Building H - Pipe Insulation Wrap/ Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected

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0350-1203-33A / 14033706-097 Building H - 12" Vinyl Floor Tile, Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-33A / 14033706-097 Building H - 12" Vinyl Floor Tile, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-33B / 14033706-098 Building H - 12" Vinyl Floor Tile, Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-33B / 14033706-098 Building H - 12" Vinyl Floor Tile, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-33C / 14033706-099 Building H - 12" Vinyl Floor Tile, Floor Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-33C / 14033706-099 Building H - 12" Vinyl Floor Tile, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-34A / 14033706-100 Building H - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 25% Glass	15% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-34B / 14033706-101 Building H - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 25% Glass	15% Other	None Detected

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0350-1203-34C / 14033706-102 Building H - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 25% Glass	15% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-35A / 14033706-103 Building H - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	70% Cellulose 10% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-35B / 14033706-104 Building H - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	70% Cellulose 10% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-35C / 14033706-105 Building H - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	70% Cellulose 10% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-36A / 14033706-106 Building H - 2'x4' Ceiling Tile	Grey Fibrous Homogeneous	70% Glass	30% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-36B / 14033706-107 Building H - 2'x4' Ceiling Tile	Grey Fibrous Homogeneous	70% Glass	30% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-36C / 14033706-108 Building H - 2'x4' Ceiling Tile	Grey Fibrous Homogeneous	70% Glass	30% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-37A / 14033706-109 Building H - Exterior Door/ Window Caulk	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-37B / 14033706-110 Building H - Exterior Door/ Window Caulk	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-37C / 14033706-111 Building H - Exterior Door/ Window Caulk	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-38A / 14033706-112 Building E - Exterior HVAC Duct Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
0350-1203-38A / 14033706-112 Building E - Exterior HVAC Duct Insulation, Mastic	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-38B / 14033706-113 Building E - Exterior HVAC Duct Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
0350-1203-38B / 14033706-113 Building E - Exterior HVAC Duct Insulation, Mastic	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-38C / 14033706-114 Building E - Exterior HVAC Duct Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
0350-1203-38C / 14033706-114 Building E - Exterior HVAC Duct Insulation, Mastic	White Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID Number
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Project Name: Former CPSC Site

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Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-39A / 14033706-115 Building E - Exterior Door/ Window Caulk	Grey Non-Fibrous Homogeneous	5% Glass	95% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-39B / 14033706-116 Building E - Exterior Door/ Window Caulk	Grey Non-Fibrous Homogeneous	5% Glass	95% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-39C / 14033706-117 Building E - Exterior Door/ Window Caulk	Grey Non-Fibrous Homogeneous	5% Glass	95% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-40A / 14033706-118 Building F - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-40B / 14033706-119 Building F - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-40C / 14033706-120 Building F - Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-41A / 14033706-121 Building F - 12" Vinyl Floor Tile, Floor Tile	White Non-Fibrous Homogeneous		98% Other	2% Chrysotile
0350-1203-41A / 14033706-121 Building F - 12" Vinyl Floor Tile, Mastic	Black Non-Fibrous Homogeneous		95% Other	5% Chrysotile

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-41B / 14033706-122 Building F - 12" Vinyl Floor Tile, Floor Tile				Not Analyzed
0350-1203-41B / 14033706-122 Building F - 12" Vinyl Floor Tile, Mastic				Not Analyzed

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-41C / 14033706-123 Building F - 12" Vinyl Floor Tile, Floor Tile				Not Analyzed
0350-1203-41C / 14033706-123 Building F - 12" Vinyl Floor Tile, Mastic				Not Analyzed

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-42A / 14033706-124 Building F - Base Cove Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-42B / 14033706-125 Building F - Base Cove Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-42C / 14033706-126 Building F - Base Cove Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-43A / 14033706-127 Building F - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	70% Cellulose 10% Glass	20% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-43B / 14033706-128 Building F - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	70% Cellulose 10% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-43C / 14033706-129 Building F - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	70% Cellulose 10% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-44A / 14033706-130 Building F - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-44B / 14033706-131 Building F - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-44C / 14033706-132 Building F - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-45A / 14033706-133 Building F - Exterior Door/ Window Caulk	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-45B / 14033706-134 Building F - Exterior Door/ Window Caulk	Grey Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-45C / 14033706-135 Building F - Exterior Door/ Window Caulk	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-46A / 14033706-136 Building F - Exterior HVAC Duct Insulation & Mastic Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
0350-1203-46A / 14033706-136 Building F - Exterior HVAC Duct Insulation & Mastic Wrap, Mastic	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-46B / 14033706-137 Building F - Exterior HVAC Duct Insulation & Mastic Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
0350-1203-46B / 14033706-137 Building F - Exterior HVAC Duct Insulation & Mastic Wrap, Mastic	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-46C / 14033706-138 Building F - Exterior HVAC Duct Insulation & Mastic Wrap, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
0350-1203-46C / 14033706-138 Building F - Exterior HVAC Duct Insulation & Mastic Wrap, Mastic	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-47A / 14033706-139 Guardhouse - Drywall, Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-47A / 14033706-139 Guardhouse - Drywall, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-47B / 14033706-140 Guardhouse - Drywall, Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-47B / 14033706-140 Guardhouse - Drywall, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-47C / 14033706-141 Guardhouse - Drywall, Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-47C / 14033706-141 Guardhouse - Drywall, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-48A / 14033706-142 Guardhouse - Exterior Door/ Window Caulk	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-48B / 14033706-143 Guardhouse - Exterior Door/ Window Caulk	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-48C / 14033706-144 Guardhouse - Exterior Door/ Window Caulk	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-49A / 14033706-145 Building G - Drywall, Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-49A / 14033706-145 Building G - Drywall, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-49B / 14033706-146 Building G - Drywall, Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-49B / 14033706-146 Building G - Drywall, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-49C / 14033706-147 Building G - Drywall, Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-49C / 14033706-147 Building G - Drywall, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-50A / 14033706-148 Buiding G - 2'x4' Ceiling Tile	Grey Fibrous Homogeneous	40% Cellulose 30% Glass	30% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-50B / 14033706-149 Buiding G - 2'x4' Ceiling Tile	Grey Fibrous Homogeneous	40% Cellulose 30% Glass	30% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-50C / 14033706-150 Buiding G - 2'x4' Ceiling Tile	Grey Fibrous Homogeneous	40% Cellulose 30% Glass	30% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-51A / 14033706-151 Building G - 12" Vinyl Floor Tile, Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-51A / 14033706-151 Building G - 12" Vinyl Floor Tile, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

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0350-1203-51B / 14033706-152 Building G - 12" Vinyl Floor Tile, Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-51B / 14033706-152 Building G - 12" Vinyl Floor Tile, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-51C / 14033706-153 Building G - 12" Vinyl Floor Tile, Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
0350-1203-51C / 14033706-153 Building G - 12" Vinyl Floor Tile, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-52A / 14033706-154 Building G - 12" Vinyl Tile, Floor Tile	Off-White Non-Fibrous Homogeneous		94% Other	6% Chrysotile
0350-1203-52A / 14033706-154 Building G - 12" Vinyl Tile, Mastic	Black Non-Fibrous Homogeneous		95% Other	5% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-52B / 14033706-155 Building G - 12" Vinyl Tile, Floor Tile				Not Analyzed
0350-1203-52B / 14033706-155 Building G - 12" Vinyl Tile, Mastic				Not Analyzed

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-52C / 14033706-156 Building G - 12" Vinyl Tile, Floor Tile				Not Analyzed
0350-1203-52C / 14033706-156 Building G - 12" Vinyl Tile, Mastic				Not Analyzed

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-53A / 14033706-157 Buildng G - Base Cove Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-53B / 14033706-158 Buildng G - Base Cove Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-53C / 14033706-159 Buildng G - Base Cove Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-54A / 14033706-160 Buildng G - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-54B / 14033706-161 Buildng G - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-54C / 14033706-162 Buildng G - Base Cove Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-Fibrous	Asbestos Fibers
0350-1203-55A / 14033706-163 Building G - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 30% Glass	10% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-55B / 14033706-164 Building G - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 30% Glass	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-55C / 14033706-165 Building G - 2'x4' Ceiling Tile	Tan Fibrous Homogeneous	60% Cellulose 30% Glass	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-56A / 14033706-166 Building G - Building G 2'x4' Ceiling Tile	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-56B / 14033706-167 Building G - Building G 2'x4' Ceiling Tile	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-56C / 14033706-168 Building G - Building G 2'x4' Ceiling Tile	White Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-57A / 14033706-169 Building G - Exterior Duct Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
0350-1203-57A / 14033706-169 Building G - Exterior Duct Insulation, Mastic	White Fibrous Homogeneous	20% Cellulose	80% Other	None Detected

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Morgantown, WV 26501

Project Number: 03-14-0350
P.O. Number:
Project Name: Former CPSC Site

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Received Date: 12/9/2014 9:30:00 AM
Report Date: 12/11/2014 4:07:53 PM
Analyst: Fisher, Toni

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-57B / 14033706-170 Building G - Exterior Duct Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
0350-1203-57B / 14033706-170 Building G - Exterior Duct Insulation, Mastic	White Fibrous Homogeneous	20% Cellulose	80% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-57C / 14033706-171 Building G - Exterior Duct Insulation, Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Other	None Detected
0350-1203-57C / 14033706-171 Building G - Exterior Duct Insulation, Mastic	White Fibrous Homogeneous	20% Cellulose	80% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-58A / 14033706-172 Building G - HVAC Seam Sealant	Tan Non-Fibrous Homogeneous		95% Other	5% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-58B / 14033706-173 Building G - HVAC Seam Sealant				Not Analyzed

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1203-58C / 14033706-174 Building G - HVAC Seam Sealant				Not Analyzed

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-59A / 14033706-175 Building G Roof - Roofing Membrane, Membrane	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1204-59A / 14033706-175 Building G Roof - Roofing Membrane, Roof Board	White Fibrous Homogeneous	15% Glass	85% Other	None Detected

Certification

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-59B / 14033706-176 Building G Roof - Roofing Membrane, Membrane	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1204-59B / 14033706-176 Building G Roof - Roofing Membrane, Roof Board	White Fibrous Homogeneous	15% Glass	85% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-60A / 14033706-177 Building G Roof - Roofing Sealant	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-60B / 14033706-178 Building G Roof - Roofing Sealant	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-60C / 14033706-179 Building G Roof - Roofing Sealant	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-61A / 14033706-180 Building G Roof - HVAC Sealant	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-61B / 14033706-181 Building G Roof - HVAC Sealant	Grey Non-Fibrous Homogeneous		100% Other	None Detected

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Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-61C / 14033706-182 Building G Roof - HVAC Sealant	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-62A / 14033706-183 Building G Roof - Flashing/ Penetration Sealant	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-62B / 14033706-184 Building G Roof - Flashing/ Penetration Sealant	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-62C / 14033706-185 Building G Roof - Flashing/ Penetration Sealant	Grey Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-63A / 14033706-186 Building F Roof - Rubber Membrane, Membrane	Black Non-Fibrous Homogeneous		100% Other	None Detected
0350-1204-63A / 14033706-186 Building F Roof - Rubber Membrane, Insulation	Tan Fibrous Homogeneous	99% Cellulose	1% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-63B / 14033706-187 Building F Roof - Rubber Membrane, Membrane	Black Non-Fibrous Homogeneous		100% Other	None Detected
0350-1204-63B / 14033706-187 Building F Roof - Rubber Membrane, Insulation	Tan Fibrous Homogeneous	99% Cellulose	1% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-63C / 14033706-188 Building F Roof - Rubber Membrane				Not Submitted

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-64A / 14033706-189 Building F Roof - Tar & Gravel	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-65A / 14033706-190 Building E Roof - Rubber Membrane, Membrane	Black Non-Fibrous Homogeneous		100% Other	None Detected
0350-1204-65A / 14033706-190 Building E Roof - Rubber Membrane, Insulation	Tan Fibrous Homogeneous	99% Cellulose	1% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-66A / 14033706-191 Building E Roof - Tar & Gravel	Black Non-Fibrous Homogeneous	10% Glass 5% Cellulose	85% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-67A / 14033706-192 Building H Roof - Asphalt Shingle	Black Non-Fibrous Homogeneous	10% Glass	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-67B / 14033706-193 Building H Roof - Asphalt Shingle	Black Non-Fibrous Homogeneous	10% Glass	90% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-67C / 14033706-194 Building H Roof - Asphalt Shingle	Black Non-Fibrous Homogeneous	10% Glass	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-68A / 14033706-195 Building H Roof - Flashing Caulk	Beige Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-68B / 14033706-196 Building H Roof - Flashing Caulk	Beige Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-68C / 14033706-197 Building H Roof - Flashing Caulk	Beige Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-69A / 14033706-198 Building H Roof - HVAC Sealant Paint	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-69B / 14033706-199 Building H Roof - HVAC Sealant Paint	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-69C / 14033706-200 Building H Roof - HVAC Sealant Paint	Black Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-70A / 14033706-201 Building H Roof - Fibrous Foam Board Facing, Paper	Various Non-Fibrous Homogeneous	95% Cellulose	5% Other	None Detected
0350-1204-70A / 14033706-201 Building H Roof - Fibrous Foam Board Facing, Foam	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-71A / 14033706-202 Building C Roof - Foam Board	Black Non-Fibrous Homogeneous	55% Cellulose 25% Glass	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-72A / 14033706-203 Building C Roof - Fibrous Insulation	Brown Fibrous Homogeneous	99% Cellulose	1% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-73A / 14033706-204 Building C Roof - HVAC Duct Insulation Wrap	Various Fibrous Homogeneous	55% Glass 15% Cellulose	27% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-73B / 14033706-205 Building C Roof - HVAC Duct Insulation Wrap				Not Analyzed

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-73C / 14033706-206 Building C Roof - HVAC Duct Insulation Wrap				Not Analyzed

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-74A / 14033706-207 Building C Roof - Flashing Caulk	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1204-74B / 14033706-208 Building C Roof - Flashing Caulk	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1204-74C / 14033706-209 Building C Roof - Flashing Caulk	White Non-Fibrous Homogeneous		100% Other	None Detected
0350-1204-75A / 14033706-210 Building B Roof - Roofing Membrane	Various Non-Fibrous Homogeneous	5% Cellulose	95% Other	< 1% Chrysotile
0350-1204-75B / 14033706-211 Building B Roof - Roofing Membrane	Various Non-Fibrous Homogeneous	5% Cellulose	95% Other	< 1% Chrysotile
0350-1204-75C / 14033706-212 Building B Roof - Roofing Membrane	Various Non-Fibrous Homogeneous	5% Cellulose	95% Other	< 1% Chrysotile
0350-1204-76A / 14033706-213 Building B Roof - Asphalt Shingle (Base)	Black Non-Fibrous Homogeneous	15% Cellulose	85% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-76B / 14033706-214 Building B Roof - Asphalt Shingle (Base)	Black Non-Fibrous Homogeneous	15% Cellulose	85% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-76C / 14033706-215 Building B Roof - Asphalt Shingle (Base)	Black Non-Fibrous Homogeneous	15% Cellulose	85% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-77A / 14033706-216 Building B Roof - Tar & Gravel Roofing, Roofing	Black Non-Fibrous Homogeneous	5% Glass	95% Other	None Detected
0350-1204-77A / 14033706-216 Building B Roof - Tar & Gravel Roofing, Insulation	Yellow Fibrous Homogeneous	99% Glass	1% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-77B / 14033706-217 Building B Roof - Tar & Gravel Roofing, Roofing	Black Non-Fibrous Homogeneous	5% Glass	95% Other	None Detected
0350-1204-77B / 14033706-217 Building B Roof - Tar & Gravel Roofing, Insulation	Yellow Fibrous Homogeneous	99% Glass	1% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-77C / 14033706-218 Building B Roof - Tar & Gravel Roofing, Roofing	Black Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
0350-1204-77C / 14033706-218 Building B Roof - Tar & Gravel Roofing, Insulation	Yellow Fibrous Homogeneous	99% Glass	1% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-78A / 14033706-219 Building B Roof - HVAC Duct Insulation, Insulation	Yellow Fibrous Homogeneous	99% Glass	1% Other	None Detected
0350-1204-78A / 14033706-219 Building B Roof - HVAC Duct Insulation, Mastic	Various Non-Fibrous Homogeneous		97% Other	3% Chrysotile

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-78B / 14033706-220 Building B Roof - HVAC Duct Insulation, Insulation	Yellow Fibrous Homogeneous	99% Glass	1% Other	None Detected
0350-1204-78B / 14033706-220 Building B Roof - HVAC Duct Insulation, Mastic				Not Analyzed

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-78C / 14033706-221 Building B Roof - HVAC Duct Insulation, Insulation	Yellow Fibrous Homogeneous	99% Glass	1% Other	None Detected
0350-1204-78C / 14033706-221 Building B Roof - HVAC Duct Insulation, Mastic				Not Analyzed

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-79A / 14033706-222 Building A Roof - Roofing Sealant	Black Non-Fibrous Homogeneous	2% Glass	98% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-79B / 14033706-223 Building A Roof - Roofing Sealant	Black Non-Fibrous Homogeneous	2% Glass	98% Other	None Detected

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0350-1204-79C / 14033706-224 Building A Roof - Roofing Sealant	Black Non-Fibrous Homogeneous	2% Glass	98% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-80A / 14033706-225 Building A Roof - 3' Wide Asphalt Roofing, Roofing	Black Non-Fibrous Homogeneous	3% Cellulose 2% Glass	95% Other	None Detected
0350-1204-80A / 14033706-225 Building A Roof - 3' Wide Asphalt Roofing, Sealant	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-80B / 14033706-226 Building A Roof - 3' Wide Asphalt Roofing, Roofing	Black Non-Fibrous Homogeneous	3% Cellulose 2% Glass	95% Other	None Detected
0350-1204-80B / 14033706-226 Building A Roof - 3' Wide Asphalt Roofing, Sealant	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-81A / 14033706-227 Building A Roof - Paint And HVAC Duct Sealant	Various Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-81B / 14033706-228 Building A Roof - Paint And HVAC Duct Sealant	Various Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-81C / 14033706-229 Building A Roof - Paint And HVAC Duct Sealant	Various Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-82A / 14033706-230 Building A Roof - Tar Sealant	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-82B / 14033706-231 Building A Roof - Tar Sealant	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1204-82C / 14033706-232 Building A Roof - Tar Sealant	Black Non-Fibrous Homogeneous		100% Other	None Detected

Certification

Signature: Reviewed: Sandra Sobrino

Date: 12/11/2014 Date: 12/11/2014

SanAir Technologies Laboratory

Analysis Report

prepared for

Triad Engineering, Inc.

Report Date: 12/11/2014
Project Name: CPSC Site
Project #: 05-14-0395
SanAir ID#: 14033938

NVLAP LAB CODE 200870-0

Virginia SBE
Certification # 652931

Texas Licensed Mold Analysis Laboratory
License # LAB0166

SanAir Technologies Laboratory

804.897.1177 www.sanair.com

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

Triad Engineering, Inc.
1097 Chaplin Road
Morgantown, WV 26501

December 11, 2014

SanAir ID #	14033938
Project Name:	CPSC Site
Project Number:	05-14-0395

Dear BJC,

We at SanAir would like to thank you for the work you recently submitted. The 6 sample(s) were received on Thursday, December 11, 2014 via FedEx. The final report(s) is enclosed for the following sample(s): 0350-1210-83A, 0350-1210-83B, 0350-1210-83C, 0350-1210-84A, 0350-1210-84B, 0350-1210-84C.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
6 sample(s) in Good condition

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number
14033938
FINAL REPORT

Name: Triad Engineering, Inc.
Address: 1097 Chaplin Road
Morgantown, WV 26501

Project Number: 05-14-0395
P.O. Number:
Project Name: CPSC Site

Collected Date: 12/10/2014
Received Date: 12/11/2014 9:30:00 AM
Report Date: 12/11/2014 4:15:41 PM
Analyst: Szabo, Philip M.

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1210-83A / 14033938-001 12" Adhered Ceiling Tile Dots- Bldg A	Brown Non-Fibrous Homogeneous	10% Glass	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1210-83B / 14033938-002 12" Adhered Ceiling Tile Dots- Bldg A	Brown Non-Fibrous Homogeneous	10% Glass	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1210-83C / 14033938-003 12" Adhered Ceiling Tile Dots- Bldg A	Brown Non-Fibrous Homogeneous	10% Glass	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1210-84A / 14033938-004 12" Adhered Ceiling Tile Dots- Bldg C	Brown Non-Fibrous Homogeneous	10% Glass	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1210-84B / 14033938-005 12" Adhered Ceiling Tile Dots- Bldg C	Brown Non-Fibrous Homogeneous	10% Glass	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	Components % Non-Fibrous	Asbestos Fibers
0350-1210-84C / 14033938-006 12" Adhered Ceiling Tile Dots- Bldg C	Brown Non-Fibrous Homogeneous	10% Glass	90% Other	None Detected

Certification

Signature: Philip Szabo
Date: 12/11/2014

Reviewed:
Date: 12/11/2014

Disclaimer

The final report cannot be reproduced, except in full, without written authorization from SanAir. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government.

For NY state samples, method EPA 600/M4-82-020 is performed.

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

NY ELAP lab ID 11983

SanAir Technologies Laboratory
1551 Oakbridge Drive Suite B
Powhatan, VA 23139
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Fax 804-897-0070
www.sanair.com

Asbestos Chain of Custody

SanAir ID Number: 14033938

Company: Triad Engineering, Inc.	Project #: 05-14-0395	Collected by: BJC
Address: 21641 Beaumeade Circle; Suite 300	Project Name: CPSC Site	Phone #: 703.729.3456
City, St., Zip: Ashburn, VA 20147	Date Collected: 12/10/2014	Fax #: 703.729.3459
State of Collection: MD Account#: 2565	P.O. Number:	Email: bpearson@triadeng.com

Bulk

ABB	PLM EPA 600/R-93/116	☑
	Positive Stop ☑	
ABEPA	PLM EPA 400 Point Count	☐
ABB1K	PLM EPA 1000 Point Count	☐
ABBEN	PLM EPA NOB	☐
ABBCH	TEM Chatfield	☐
ABBTM	TEM EPA NOB	☐

Water

ABHE	EPA 100.2	☐

Air

ABA	PCM NIOSH 7400	☐
ABA-2	OSHA w/ TWA*	☐
ABTEM	TEM AHERA	☐
ABATN	TEM NIOSH 7402	☐
ABT2	TEM Level II	☐

New York ELAP

PLM NY	PLM EPA 600/M4-82-020	☐
ABEPA2	NY ELAP 198.1	☐
ABENY	NY ELAP 198.6 PLM NOB	☐
ABBNY	NY ELAP 198.4 TEM NOB	☐

Soil/Vermiculite

ABSE	PLM EPA 600/R-93/116 (Qual.)	☐
ABSP	PLM CARB 435 (LOD <1%)	☐
ABSP1	PLM CARB 435 (LOD 0.25%)	☐
ABSP2	PLM CARB 435 (LOD 0.1%)	☐

Dust

ABWA	TEM Wipe ASTM D-6480	☐
ABDMV	TEM Microvac ASTM D-5755	☐

Other

Matrix		
		☐

Turn Around Times				
	3 HR (4 HR TEM) ☐	6 HR (8HR TEM) ☐	12 HR ☐	24 HR ■
	2 Days ☐	3 Days ☐	4 Days ☐	5 Days ☐

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Type	Flow Rate*	Time* Start – Stop
0350-1210-83A, -83B, -83C	12" Adhered Ceiling Tile Glue Dots - Bldg A				
0350-1210-84A, -84B, -84C	12" Adhered Ceiling Tile Glue Dots - Bldg C				

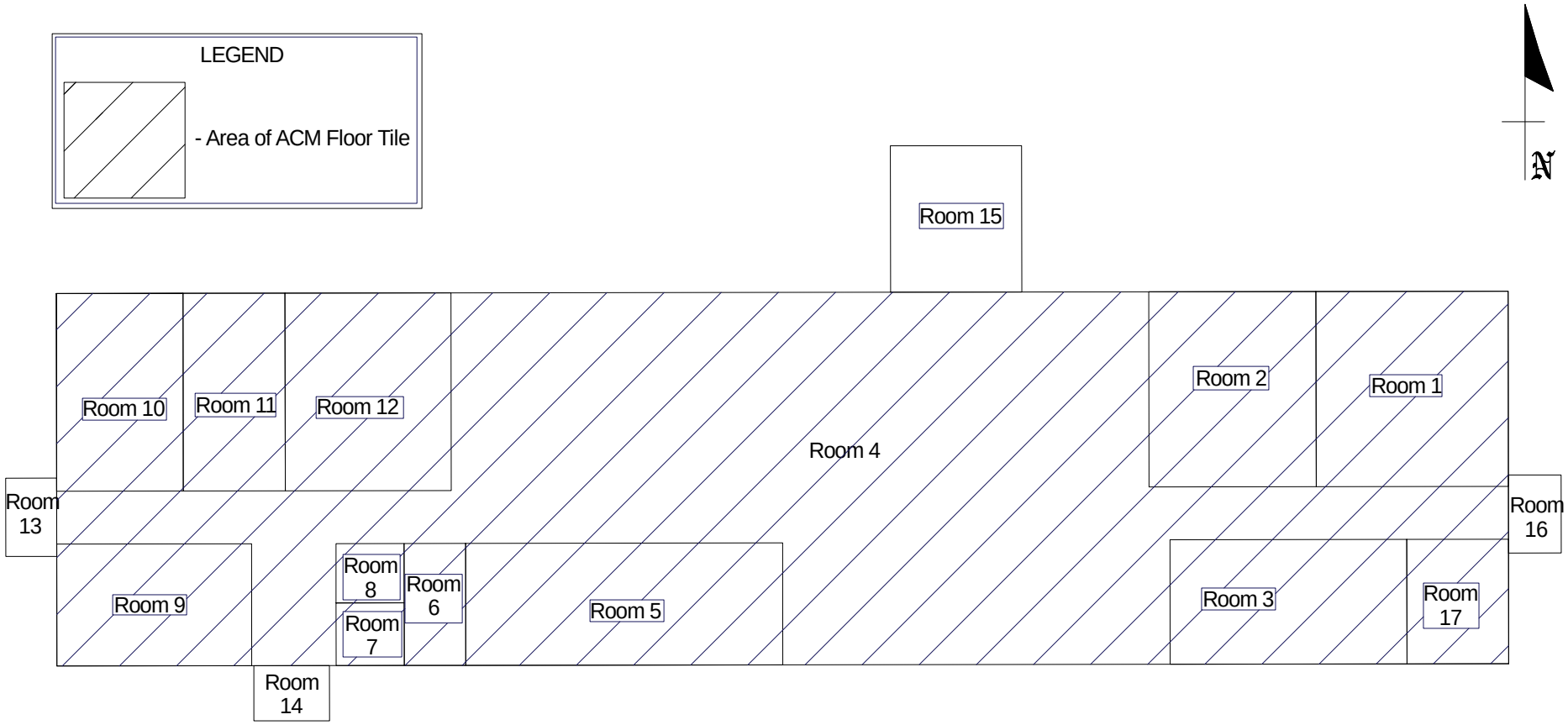
Relinquished by	Date	Time	Received by	Date	Time
BJC	12/10/14	13:00	BCP BCP	12/10/14	13:00
BCP BCP	12/10/14	17:00	ECB	DEC 11 2014	9:30AM

Unless scheduled, the turn around time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time. Work with standard turn around time sent Priority Overnight and Billed to Recipient will be charged a $10 shipping fee.

APPENDIX C

STRUCTURE SKETCHES SHOWING ACM LOCATIONS

TRIAD ENGINEERING, INC.

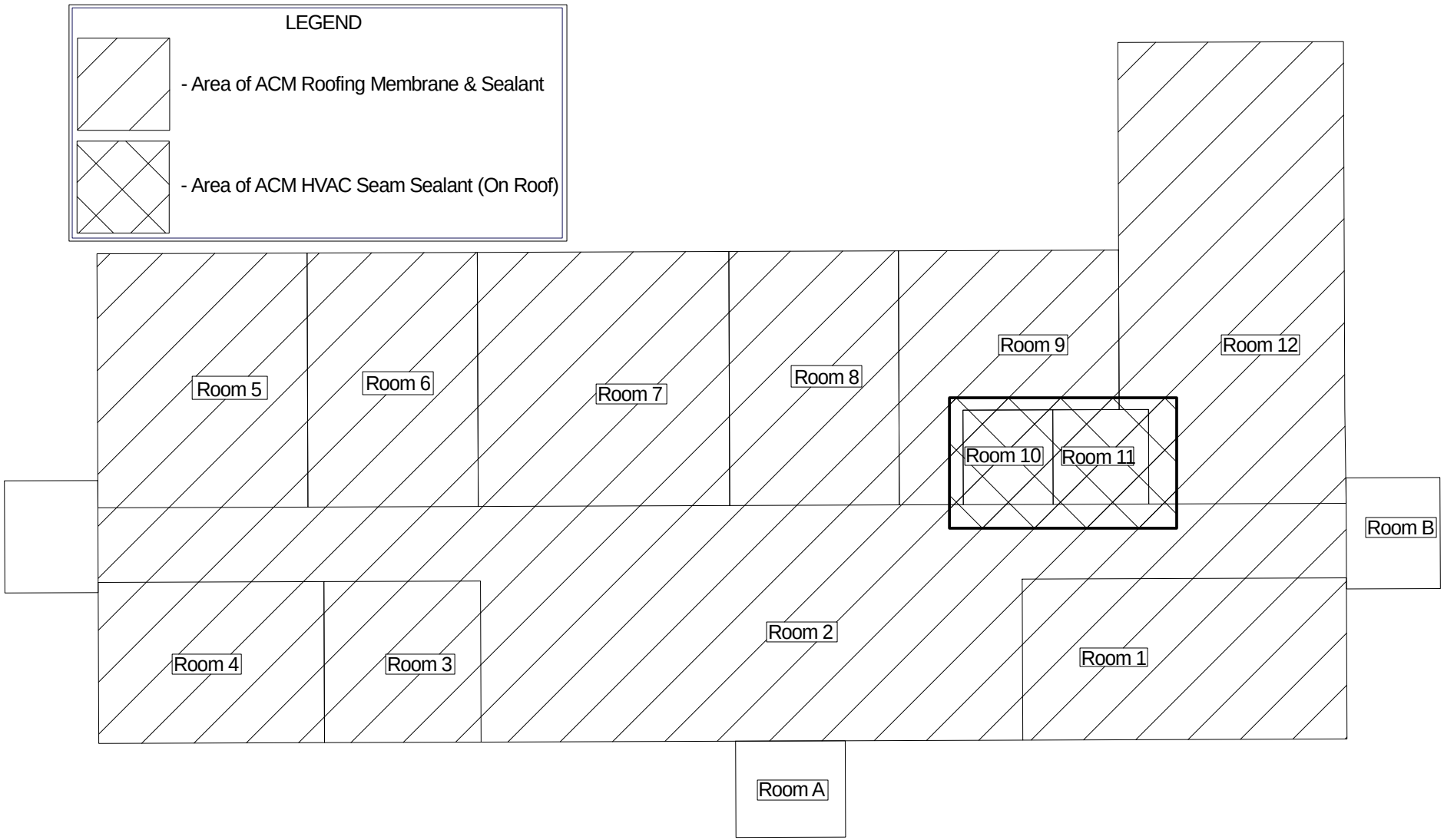


SOURCE:		Former Consumer Product Safety Commission Site 10901 Darnestown Road Gaithersburg, Maryland 20878 Building A
DRAWN BY: BJC	CHECKED BY: JHM	
DATE: 01/08/15	SCALE: NTS	TRIAD PROJECT NO. 03-14-0350

TRIAD ENGINEERING, INC.

www.triadeng.com

APPENDIX C



SOURCE:		Former Consumer Product Safety Commission Site 10901 Darnestown Road Gaithersburg, Maryland 20878 Building B
DRAWN BY: BJC	CHECKED BY: JHM	
DATE: 01/08/15	SCALE: NTS	TRIAD PROJECT NO. 03-14-0350

TRIAD ENGINEERING, INC.

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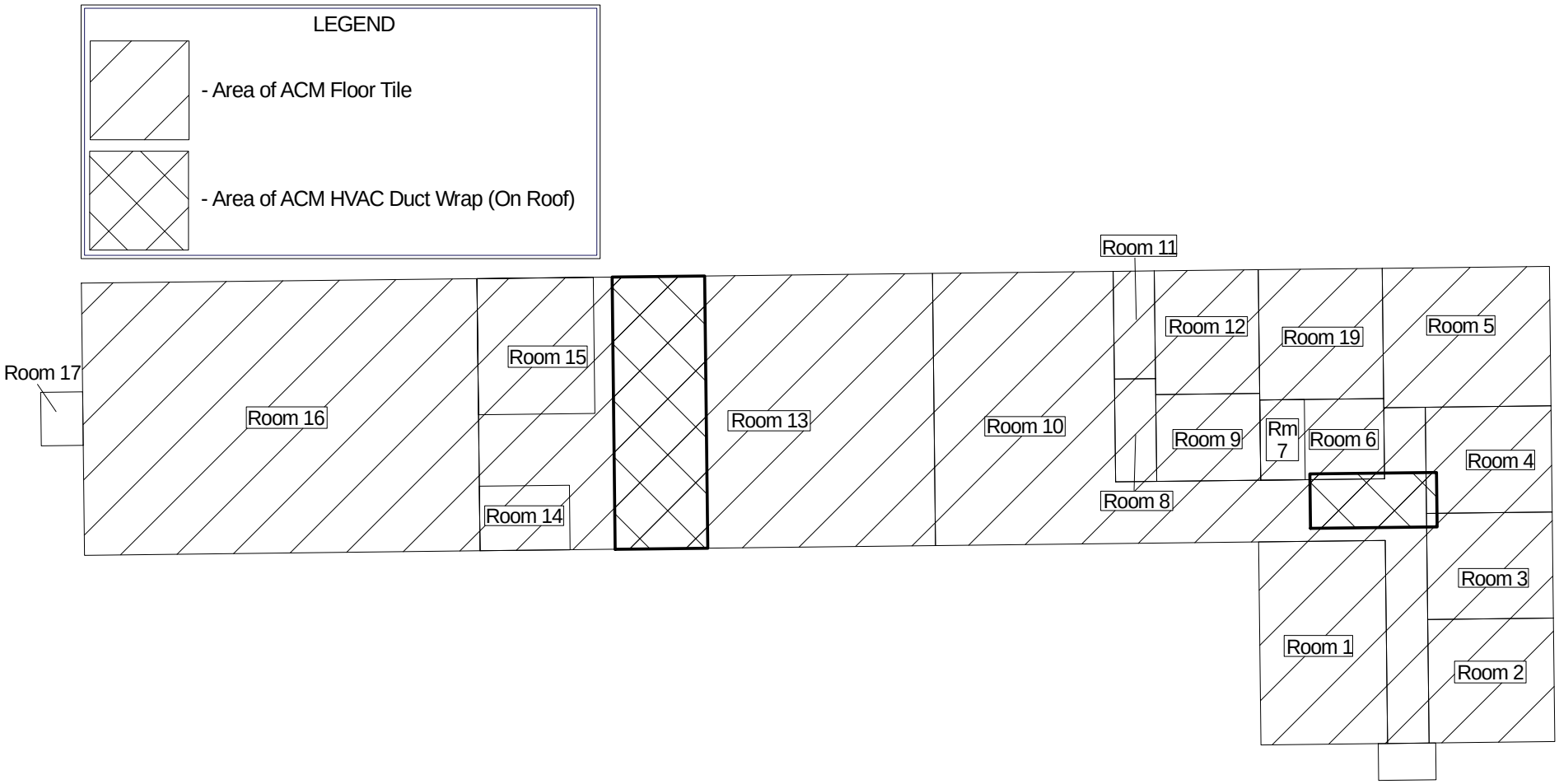
APPENDIX C



SOURCE:		Former Consumer Product Safety Commission Site 10901 Darnestown Road Gaithersburg, Maryland 20878 Building C
DRAWN BY: BJC	CHECKED BY: JHM	
DATE: 01/08/15	SCALE: NTS	TRIAD PROJECT NO. 03-14-0350

TRIAD ENGINEERING, INC.

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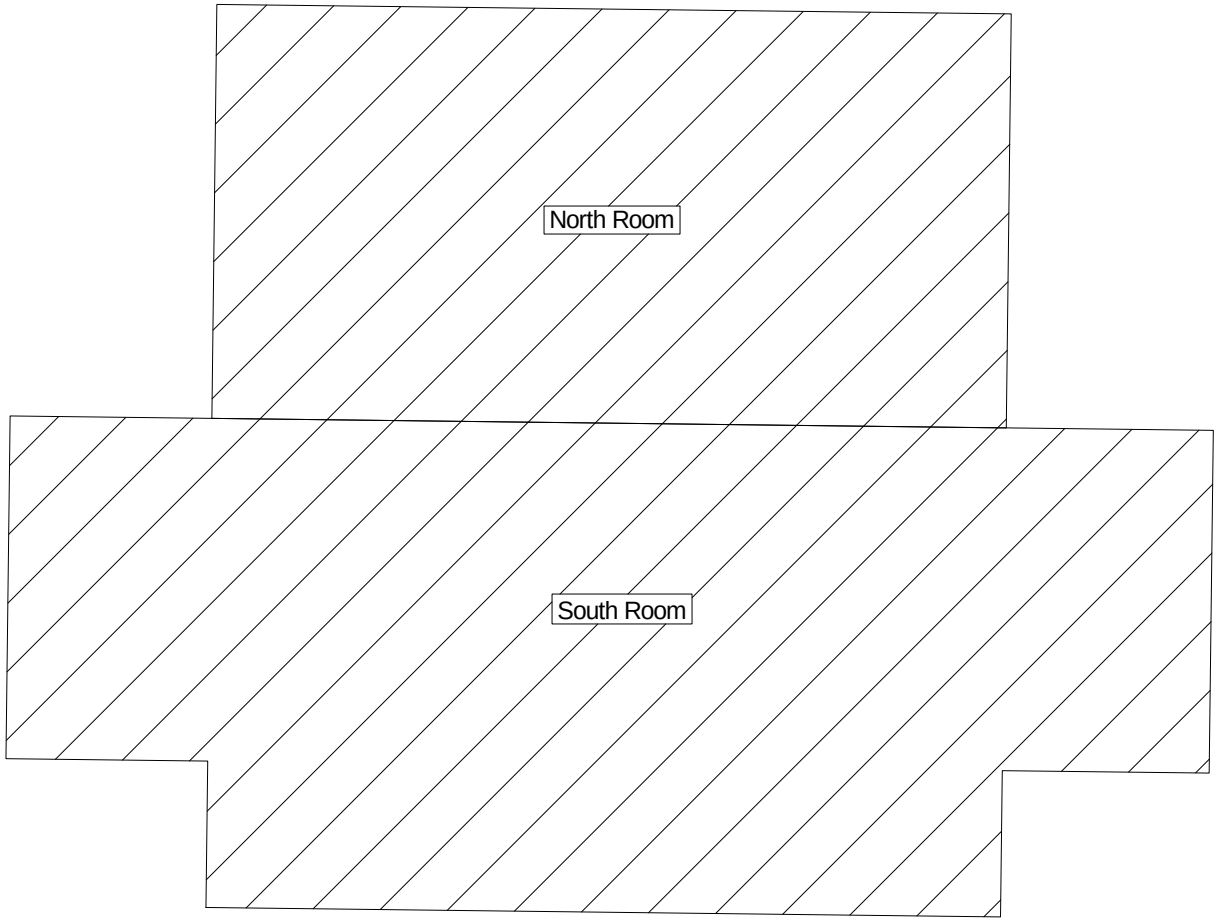
APPENDIX C



LEGEND

- Area of ACM Floor Tile

SOURCE:		Former Consumer Product Safety Commission Site 10901 Darnestown Road Gaithersburg, Maryland 20878 Building F
DRAWN BY: BJC	CHECKED BY: JHM	
DATE: 01/08/15	SCALE: NTS	TRIAD PROJECT NO. 03-14-0350

TRIAD ENGINEERING, INC.

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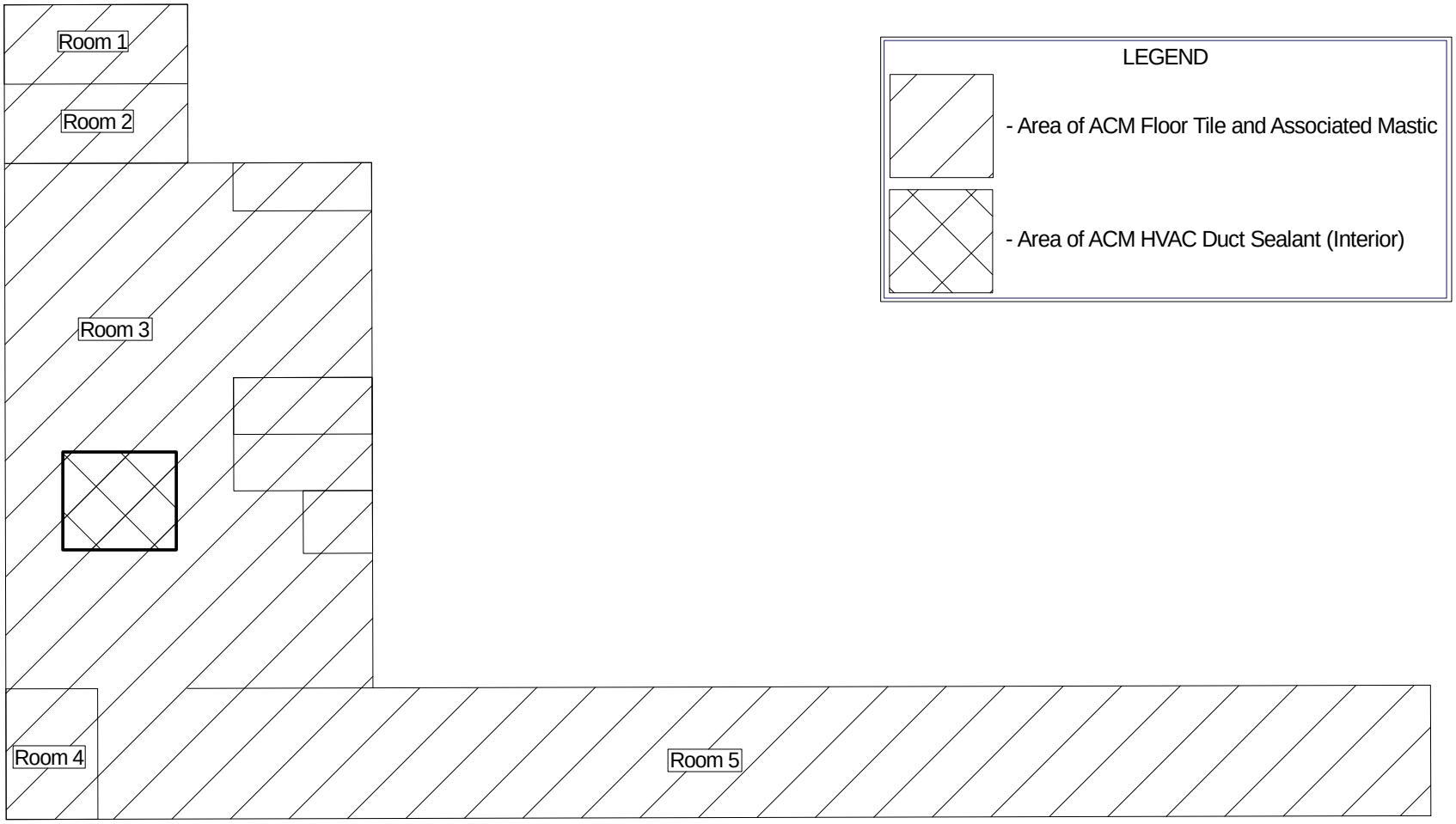
APPENDIX C



LEGEND

- Area of ACM Floor Tile and Associated Mastic

- Area of ACM HVAC Duct Sealant (Interior)

SOURCE:		Former Consumer Product Safety Commission Site 10901 Darnestown Road Gaithersburg, Maryland 20878 Building G
DRAWN BY: BJC	CHECKED BY: JHM	
DATE: 01/08/15	SCALE: NTS	TRIAD PROJECT NO. 03-14-0350

TRIAD ENGINEERING, INC.

www.triadeng.com

APPENDIX C

APPENDIX D

LEAD-BASED PAINT INSPECTION REPORTS

TRIAD ENGINEERING, INC.

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	12/01/14
Report Date:	12/12/2014
Abatement Level:	0.7
Report No.	S#02945 - 12/01/14 09:31
Total Readings:	431 Actionable: 24
Job Started:	12/01/14 09:31
Job Finished:	12/01/14 15:58

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Bldg A Ext.									
204	D	Foundation	Lft		F	N/A	N/A	0.7	QM
Exterior Room 003 Bldg C Ext.									
349	D	Window	Ctr	Rgt jamb	F	Wood	Cream	1.2	QM
353	D WN4	Window	Ctr	Sill	F	Wood	Cream	3.8	QM
Exterior Room 004 Bldg H Ext.									
395	D D2	Door	Ctr	Lft jamb	F	Metal	Cream	0.7	QM
Interior Room 004 Bldg A Rm04									
057	D	Header	Ctr		F	Wood	White	2.0	QM
Interior Room 006 Bldg A Rm06									
063	A	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 007 Bldg A Rm07									
068	C	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 008 Bldg A Rm08									
071	A	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 027 Bldg B Rm09									
174	C	Pipe	Ctr		F	Metal	Red	0.7	QM
Interior Room 028 Bldg B Rm10									
179	D	Toilet Shelf	Ctr		F	Porcelain	White	5.5	QM
180	D	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 029 Bldg B Rm11									
183	A	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 032 Bldg C Rm01									
215	B	Conduit	Ctr		I	Metal	White	0.7	QM
Interior Room 038 Bldg C Rm07									
255	B	Sink	Ctr		I	Porcelain	White	>9.9	QM
Interior Room 039 Bldg C Rm08									

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
261	C	Framing Hdr	Ctr		I	Wood	White	2.3	QM
Interior Room 040 Bldg C Rm09									
266	B	Sink	Ctr		I	Porcelain	White	>9.9	QM
	Lg. Sink								
267	B	Sink	Ctr		I	Porcelain	White	>9.9	QM
	Sm. Sink								
Interior Room 041 Bldg C Rm10									
273	A	Wall	U Ctr		I	Drywall	White	1.5	QM
Interior Room 043 Bldg C Rm12									
292	C	Urinal	Ctr		F	Porcelain	White	1.3	QM
296	D	Sink	Ctr		F	Porcelain	White	>9.9	QM
297	D	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 047 Bldg C Rm16									
326	D	Door	Ctr	Header	F	Wood	Cream	1.8	QM
Interior Room 061 Bldg E Rm01									
411	C	Pipe	Ctr		F	Metal	Red	1.1	QM
Interior Room 062 Bldg E Rm02									
417	C	I-Beam	Ctr		F	Metal	White	9.7	QM
Calibration Readings									
Calibration Readings									
Calibration Readings									

---- End of Readings ----

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	12/02/14
Report Date:	12/12/2014
Abatement Level:	1.0
Report No.	S#02945 - 12/02/14 15:48
Total Readings:	25 Actionable: 2
Job Started:	12/02/14 15:48
Job Finished:	12/04/14 09:43

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Bldg F Ext.									
024	B	Soffit			F	Metal	Cream	1.0	QM
Interior Room 001 Bldg FSouth									
003	A	Wall	U Ctr		F	Drywall	White	1.0	Std
Calibration Readings									

---- End of Readings ----

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	12/04/14
Report Date:	12/12/2014
Abatement Level:	0.7
Report No.	S#02945 - 12/04/14 09:44
Total Readings:	93 Actionable: 5
Job Started:	12/04/14 09:44
Job Finished:	12/05/14 11:05

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 003 Bldg G Roof									
066	A	Exhaust Fan	Ctr		I	Metal	Tan	0.7	QM
	domed								
067	A	Exhaust Fan	Ctr		I	Metal	Tan	0.7	QM
	cylindrical								
065	D	Drip Edge	Ctr		I	Metal	Tan	1.0	QM
Interior Room 001 Bldg G Rm03									
024	A	I-Beam	Ctr		I	Metal	White	3.5	QM
020	C	I-Beam	Ctr		I	Metal	White	>9.9	QM
Calibration Readings									

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02945 - 12/01/14 09:31

INSPECTION FOR:

PERFORMED AT:

INSPECTION DATE: 12/01/14

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 02945

ACTION LEVEL: 0.7 mg/cm^2

OPERATOR LICENSE: _____

SIGNED: _____ **Date:** _____

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	12/01/14
Report Date:	12/12/2014
Abatement Level:	0.7
Report No.	S#02945 - 12/01/14 09:31
Total Readings:	431
Job Started:	12/01/14 09:31
Job Finished:	12/01/14 15:58

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Bldg A Ext.									
119	A	Wall	U Ctr		F	N/A	N/A	-0.1	QM
200	A	Wall	U Ctr		F	N/A	N/A	-0.2	QM
118	A	Foundation	Rgt		F	N/A	N/A	-0.2	QM
116	A	Window	Ctr	Apron	F	N/A	N/A	0.2	QM
117	A	Window	Ctr	Lft casing	F	N/A	N/A	-0.1	QM
124	B	Window	Ctr	Sash	F	N/A	N/A	0.0	QM
120	C	Wall	U Ctr		F	N/A	N/A	0.0	QM
205	C	Foundation	Ctr		F	N/A	N/A	0.0	QM
121	C	Window	Ctr	Lft casing	F	N/A	N/A	-0.1	QM
122	C	Door	Ctr	Header	F	N/A	N/A	-0.2	QM
123	C	Door	Ctr	Lft casing	F	N/A	N/A	0.3	QM
204	D	Foundation	Lft		F	N/A	N/A	0.7	QM
201	D	Window	Ctr	Lft casing	F	N/A	N/A	-0.1	QM
202	D	Door	Ctr	Lft jamb	F	N/A	N/A	-0.1	QM
203	D	Door	Ctr	U Ctr	F	N/A	N/A	-0.1	QM
Exterior Room 002 Bldg B Ext.									
199	A	Window	Ctr	Rgt casing	F	N/A	N/A	-0.1	QM
Exterior Room 003 Bldg C Ext.									
344	C	Wall	U Ctr		F	Vinyl	Cream	-0.2	QM
347	C	Foundation	Ctr		F	Concrete	Cream	0.1	QM
343	C	Window	Ctr	Rgt jamb	F	Wood	Cream	0.0	QM
342	C WN1	Window	Ctr	Lft casing	F	Wood	Cream	-0.1	QM
345	C	Door	Ctr	Lft jamb	F	Metal	Cream	0.0	QM
346	C	Door	Ctr	U Ctr	F	Metal	Cream	-0.2	QM
349	D	Window	Ctr	Rgt jamb	F	Wood	Cream	1.2	QM
350	D	Window	Ctr	Sill	F	Wood	Cream	0.0	QM
351	D WN2	Window	Ctr	Sill	F	Wood	Cream	0.3	QM
352	D WN1	Window	Ctr	Sill	F	Wood	Cream	0.1	QM
353	D WN4	Window	Ctr	Sill	F	Wood	Cream	3.8	QM
348	D WN3	Window	Ctr	Lft casing	F	Wood	Cream	-0.2	QM
Exterior Room 004 Bldg H Ext.									
399	B WN1	Window	Ctr	Sill	F	Vinyl	Cream	-0.3	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
394	D	Fascia			F	Wood	Cream	-0.1	QM
395	D	Door	Ctr	Lft jamb	F	Metal	Cream	0.7	QM
	D2								
397	D	Door	Ctr	Lft jamb	F	Metal	Cream	0.2	QM
	D2								
396	D	Door	Ctr	U Ctr	F	Metal	Cream	0.0	QM
398	D	Door	Ctr	U Ctr	F	Metal	Cream	-0.1	QM
	D2								
Exterior Room 005 Bldg E Ext.									
419	A	Wall	U Ctr		F	Metal	White	0.0	QM
428	A	HVAC Duct	Ctr		F	Metal	White	0.0	QM
420	A	Garage Dr	Ctr		F	Metal	White	-0.1	QM
425	C	Wall	U Lft		F	Block	White	-0.2	QM
426	C	Wall	U Rgt		F	Wood	White	-0.2	QM
424	C	Soffit			F	Metal	White	-0.1	QM
427	C	Soffit			F	Wood	White	-0.1	QM
423	D	Wall	U Ctr		F	Block	White	-0.1	QM
421	D	Garage Dr	Ctr		F	Metal	White	-0.2	QM
422	D	Garage Dr	Ctr		F	Metal	White	-0.1	QM
Interior Room 001 Bldg C Rm01									
004	A	Wall	L Ctr		F	Drywall	White	-0.2	QM
005	A	Door	Ctr	Rgt casing	F	Metal	White	-0.1	QM
006	A	Door	Ctr	U Ctr	F	Metal	White	-0.1	QM
007	B	Wall	U Ctr		F	Drywall	White	-0.1	QM
008	B	Door	Ctr	Lft casing	F	Metal	White	-0.2	QM
009	B	Door	Ctr	U Ctr	F	Metal	White	-0.1	QM
010	C	Wall	U Ctr		F	Drywall	White	-0.2	QM
011	C	Door	Ctr	Header	F	Wood	White	-0.1	QM
012	C	Door	Ctr	Rgt casing	F	Wood	White	-0.4	QM
013	C	Door	Ctr	U Ctr	F	Metal	White	-0.3	QM
015	D	Window	Ctr	Sash	F	Wood	White	-0.3	QM
014	D	Window	Ctr	Lft casing	F	Wood	White	-0.1	QM
Interior Room 002 Bldg A Rm02									
016	A	Wall	U Ctr		F	Drywall	White	-0.3	QM
017	A	Door	Ctr	Header	F	Metal	White	-0.2	QM
018	A	Door	Ctr	U Ctr	F	Metal	White	-0.6	QM
020	B	Wall	U Ctr		F	Drywall	White	-0.3	QM
019	B	Framed Hdr	Ctr		F	Wood	White	-0.3	QM
026	C	Wall	U Ctr		F	Drywall	White	-0.4	QM
021	C	Window	Ctr	Rgt casing	F	Wood	White	-0.1	QM
022	C	Window	Ctr	Sash	F	Wood	White	-0.1	QM
023	D	Wall	U Ctr		F	Drywall	White	-0.1	QM
024	D	Door	Ctr	Lft casing	F	Metal	White	-0.1	QM
025	D	Door	Ctr	U Ctr	F	Metal	White	0.1	QM
Interior Room 003 Bldg A Rm03									

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
028	A	Window	Ctr	Sash	F	Wood	White	-0.3	QM
027	A	Window	Ctr	Sill	F	Wood	White	-0.2	QM
029	B	Wall	U Ctr		F	Drywall	White	-0.3	QM
030	C	Wall	L Ctr		F	Drywall	White	-0.2	QM
031	C	Door	Ctr	Header	F	Metal	White	-0.1	QM
032	C	Door	Ctr	U Ctr	F	Metal	White	-0.4	QM
033	D	Wall	U Ctr		F	Drywall	White	-0.1	QM
Interior Room 004 Bldg A Rm04									
034	A	Wall	U Ctr		F	Drywall	White	-0.1	QM
036	A	Window	Ctr	Sash	F	Wood	White	-0.1	QM
035	A	Window	Ctr	Sill	F	Wood	White	0.0	QM
037	B	Wall	U Ctr		F	Drywall	White	-0.2	QM
046	C	Wall	U Lft		F	Block	Green	-0.2	QM
041	C	Window	Ctr	Sash	F	Wood	White	-0.2	QM
040	C	Window	Ctr	Sill	F	Wood	White	-0.3	QM
042	C	Window	Ctr	Sill	F	Wood	White	-0.2	QM
038	C	Door	Ctr	Header	F	Metal	White	0.2	QM
044	C	Door	Ctr	Header	F	Metal	White	-0.1	QM
039	C	Door	Ctr	U Ctr	F	Metal	White	-0.1	QM
045	C	Door	Ctr	U Ctr	F	Wood	White	-0.4	QM
047	C	Pipe	Lft		F	Metal	Red	-0.1	QM
048	C	Pipe	Lft		F	Metal	White	0.0	QM
043	D	Wall	U Ctr		F	Drywall	White	-0.1	QM
058	D	Column	Ctr	U column	F	Drywall	White	-0.2	QM
057	D	Header	Ctr		F	Wood	White	2.0	QM
Interior Room 005 Bldg A Rm05									
049	A	Wall	U Ctr		F	Drywall	White	-0.1	QM
051	A	Window	Ctr	Sash	F	Wood	White	-0.1	QM
050	A	Window	Ctr	Lft casing	F	Wood	White	0.0	QM
052	B	Wall	U Ctr		F	Drywall	White	-0.2	QM
053	C	Wall	U Ctr		F	Drywall	White	-0.1	QM
054	C	Door	Ctr	Rgt jamb	F	Metal	White	0.0	QM
055	C	Door	Ctr	U Ctr	F	Wood	White	-0.2	QM
056	D	Hood	Ctr		F	Metal	CREAM	-0.1	QM
Interior Room 006 Bldg A Rm06									
059	A	Wall	U Ctr		F	Drywall	White	-0.3	QM
063	A	Sink	Ctr		F	Porcelain	White	>9.9	QM
060	B	Wall	U Ctr		F	Drywall	White	-0.2	QM
061	C	Door	Ctr	Lft jamb	F	Metal	White	-0.1	QM
062	C	Door	Ctr	U Ctr	F	Metal	White	-0.3	QM
Interior Room 007 Bldg A Rm07									
064	A	Wall	U Ctr		F	Drywall	White	-0.3	QM
065	B	Door	Ctr	Lft casing	F	Metal	White	0.0	QM
066	B	Door	Ctr	U Ctr	F	Wood	White	-0.3	QM
067	C	Toilet Shelf	Ctr		F	Porcelain	White	-0.4	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
068	C	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 008 Bldg A Rm08									
069	A	Wall	U Ctr		F	Drywall	White	-0.3	QM
070	A	Toilet Shelf	Ctr		F	Porcelain	White	-0.6	QM
071	A	Sink	Ctr		F	Porcelain	White	>9.9	QM
072	B	Wall	U Ctr		F	Drywall	White	-0.3	QM
073	B	Door	Ctr	Lft casing	F	Metal	White	-0.2	QM
074	B	Door	Ctr	U Ctr	F	Wood	White	-0.4	QM
Interior Room 009 Bldg A Rm09									
075	A	Wall	U Ctr		F	Drywall	White	-0.2	QM
077	A	Window	Ctr	Sash	F	Wood	White	-0.2	QM
076	A	Window	Ctr	Lft casing	F	Wood	White	-0.1	QM
078	B	Wall	U Ctr		F	Drywall	White	-0.1	QM
079	B	Door	Ctr	Lft jamb	F	Metal	White	-0.2	QM
080	B	Door	Ctr	U Ctr	F	Metal	White	-0.3	QM
081	C	Wall	U Ctr		F	Drywall	White	-0.4	QM
Interior Room 010 Bldg A Rm10									
082	B	Wall	U Ctr		F	Drywall	White	-0.1	QM
084	B	Window	Ctr	Sash	F	Wood	White	-0.1	QM
083	B	Window	Ctr	Sill	F	Wood	White	-0.2	QM
085	C	Crwn Mldg	Ctr		F	Wood	White	-0.3	QM
Interior Room 011 Bldg A Rm11									
086	A	Wall	U Ctr		F	Drywall	White	-0.3	QM
087	A	Door	Ctr	Lft jamb	F	Metal	White	-0.2	QM
088	A	Door	Ctr	U Ctr	F	Metal	White	0.0	QM
089	B	Wall	U Ctr		F	Drywall	White	-0.4	QM
Interior Room 012 Bldg A Rm12									
092	A	Door	Ctr	Lft casing	F	Metal	White	-0.3	QM
093	A	Door	Ctr	U Ctr	F	Metal	White	-0.1	QM
090	B	Wall	U Ctr		F	Drywall	White	-0.1	QM
091	C	Window	Ctr	Lft casing	F	Wood	White	-0.1	QM
Interior Room 013 Bldg A Rm13									
094	C	Ceiling			F	Drywall	White	-0.1	QM
096	D	Door	Ctr	Rgt casing	F	Metal	White	-0.2	QM
095	D	Door	Ctr	Lft jamb	F	Metal	White	-0.2	QM
Interior Room 014 Bldg A Rm14									
097	A	Ceiling			F	Drywall	White	-0.2	QM
098	C	Door	Ctr	Header	F	Metal	White	-0.1	QM
099	C	Door	Ctr	U Ctr	F	Metal	White	-0.3	QM
Interior Room 015 Bldg A Rm15									
100	B	Wall	U Ctr		F	Block	White	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
102	B	Window	Ctr	Sash	F	Wood	White	-0.2	QM
101	B	Window	Ctr	Lft casing	F	Wood	White	-0.2	QM
103	C	Wall	U Ctr		F	Block	White	-0.2	QM
104	D	Door	Ctr	Lft casing	F	Metal	Grey	0.1	QM
105	D	Door	Ctr	U Ctr	F	Metal	Grey	-0.2	QM
Interior Room 016 Bldg A Rm16									
106	A	Ceiling			F	Drywall	White	-0.2	QM
107	B	Door	Ctr	Header	F	Metal	White	-0.2	QM
108	B	Door	Ctr	U Ctr	F	Metal	White	-0.2	QM
109	C	Trim	Ctr		F	Wood	White	-0.1	QM
Interior Room 017 Bldg A Rm17									
110	A	Wall	U Ctr		F	Drywall	White	-0.1	QM
112	A	Window	Ctr	Sash	F	Wood	White	-0.1	QM
111	A	Window	Ctr	Lft casing	F	Wood	White	-0.2	QM
113	D	Wall	U Ctr		F	Drywall	White	-0.3	QM
114	D	Door	Ctr	Lft jamb	F	Wood	White	-0.2	QM
115	D	Door	Ctr	U Ctr	F	Wood	White	-0.2	QM
Interior Room 018 Bldg B									
133	A	Ceiling			F	Drywall	White	-0.1	QM
	Vestibule								
134	A	Door	Ctr	U Ctr	F	Metal	White	-0.1	QM
	Vestibule								
Interior Room 019 Bldg B Rm01									
125	A	Wall	U Ctr		F	Drywall	White	0.1	QM
127	A	Window	Ctr	Sash	F	Wood	White	-0.1	QM
126	A	Window	Ctr	Sill	F	Wood	White	-0.1	QM
128	B	Wall	U Ctr		F	Drywall	White	-0.2	QM
129	B	Counter	Ctr		F	Part. Brd	Brown	-0.3	QM
130	C	Wall	L Ctr		F	Metal	Grey	0.2	QM
131	C	Heater	Ctr		F	Metal	Grey	0.1	QM
Interior Room 020 Bldg B Rm02									
132	A	Wall	U Ctr		F	Drywall	White	-0.2	QM
138	A	Window	Ctr	Sash	F	Metal	White	-0.3	QM
137	A	Window	Ctr	Lft casing	F	Metal	White	-0.1	QM
135	A	Door	Ctr	Lft casing	F	Wood	White	-0.2	QM
136	A	Door	Ctr	U Ctr	F	Metal	White	-0.3	QM
139	C	Wall	U Ctr		F	Drywall	White	-0.2	QM
Interior Room 021 Bldg B Rm03									
140	A	Wall	U Ctr		F	Drywall	White	-0.2	QM
142	A	Window	Ctr	Sash	F	Wood	White	-0.1	QM
141	A	Window	Ctr	Sill	F	Wood	White	-0.2	QM
143	B	Elec. Box	Ctr		F	Metal	White	-0.1	QM
144	C	Door	Ctr	Lft jamb	F	Wood	White	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
145	C	Door	Ctr	U Ctr	F	Wood	White	-0.5	QM
Interior Room 022 Bldg B Rm04									
147	A	Window	Ctr	Sash	F	Wood	White	-0.2	QM
146	A	Window	Ctr	Lft casing	F	Wood	White	-0.1	QM
148	B	Window	Ctr	Sill	F	Wood	White	-0.2	QM
149	C	Wall	U Ctr		F	Drywall	White	-0.2	QM
150	C	Door	Ctr	Header	F	Wood	White	-0.2	QM
151	C	Door	Ctr	U Ctr	F	Wood	White	-0.5	QM
Interior Room 023 Bldg B Rm05									
152	A	Wall	U Ctr		F	Drywall	White	-0.2	QM
153	A	Door	Ctr	Lft jamb	F	Wood	White	-0.1	QM
154	A	Door	Ctr	U Ctr	F	Wood	White	-0.5	QM
155	B	Window	Ctr	Sash	F	Wood	White	-0.1	QM
156	C	Wall	U Ctr		F	Drywall	White	-0.2	QM
157	C	Window	Ctr	Sill	F	Wood	White	-0.1	QM
158	D	Wall	U Ctr		F	Drywall	White	-0.2	QM
Interior Room 024 Bldg B Rm06									
161	A	Window	Ctr	Sash	F	Wood	White	-0.2	QM
159	A	Column	Ctr	U column	F	Drywall	White	-0.3	QM
160	C	Window	Ctr	Lft casing	F	Wood	White	-0.1	QM
Interior Room 025 Bldg B Rm07									
162	A	Wall	U Ctr		F	Drywall	White	-0.2	QM
163	A	Door	Ctr	Header	F	Wood	White	-0.2	QM
164	A	Door	Ctr	U Ctr	F	Wood	White	-0.5	QM
165	B	Wall	U Ctr		F	Drywall	White	-0.2	QM
167	C	Window	Ctr	Sash	F	Wood	White	-0.1	QM
166	C	Window	Ctr	Sill	F	Wood	White	-0.1	QM
Interior Room 026 Bldg B Rm08									
168	A	Wall	U Ctr		F	Drywall	White	-0.2	QM
169	C	Window	Ctr	Sash	F	Wood	White	-0.3	QM
170	C	Window	Ctr	Sill	F	Wood	White	-0.2	QM
Interior Room 027 Bldg B Rm09									
171	A	Door	Ctr	Header	F	Wood	White	-0.1	QM
172	A	Door	Ctr	U Ctr	F	Wood	White	-0.5	QM
173	B	Wall	U Ctr		F	Drywall	White	-0.3	QM
174	C	Pipe	Ctr		F	Metal	Red	0.7	QM
175	C	Box	Ctr		F	Metal	Red	0.3	QM
Interior Room 028 Bldg B Rm10									
176	A	Door	Ctr	Lft casing	F	Wood	White	-0.2	QM
177	A	Door	Ctr	U Ctr	F	Wood	White	-0.7	QM
178	D	Wall	U Ctr		F	Drywall	White	-0.3	QM
179	D	Toilet Shelf	Ctr		F	Porcelain	White	5.5	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
180	D	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 029 Bldg B Rm11									
183	A	Sink	Ctr		F	Porcelain	White	>9.9	QM
181	B	Wall	U Ctr		F	Drywall	White	-0.5	QM
182	B	Toilet Shelf	Ctr		F	Porcelain	White	-0.6	QM
Interior Room 030 Bldg B Rm12									
184	A	Wall	U Ctr		F	Drywall	White	-0.3	QM
185	A	Door	Ctr	U Ctr	F	Wood	White	-0.6	QM
186	B	Wall	U Ctr		F	Drywall	White	-0.3	QM
188	C	Window	Ctr	Sash	F	Wood	White	-0.2	QM
187	C	Window	Ctr	Sill	F	Wood	White	-0.1	QM
189	D	Wall	U Ctr		F	Drywall	White	-0.1	QM
194	D	Window	Ctr	Rgt casing	F	Wood	White	-0.1	QM
193	D	Window	Ctr	Sash	F	Wood	White	-0.1	QM
192	D	Window	Ctr	Lft casing	F	Wood	White	-0.1	QM
190	D	Door	Ctr	Lft jamb	F	Wood	White	-0.1	QM
191	D	Door	Ctr	U Ctr	F	Wood	White	-0.1	QM
Interior Room 031 Building B									
195	A	Ceiling			F	Wood	White	-0.1	QM
	Vestibule								
197	A	Door	Ctr	Lft jamb	F	Wood	White	-0.1	QM
198	A	Door	Ctr	L Ctr	F	Wood	White	-0.4	QM
196	A	Crwn Mldg	Ctr		F	Wood	White	0.0	QM
Interior Room 032 Bldg C Rm01									
209	A	Wall	U Ctr		I	Drywall	White	0.0	QM
211	A	Window	Ctr	Sash	I	Wood	White	-0.1	QM
210	A	Window	Ctr	Sill	I	Wood	White	-0.2	QM
212	A	Exhst Hood	Ctr		I	Metal	White	0.1	QM
214	B	Window	Ctr	Sash	I	Wood	White	-0.2	QM
213	B	Window	Ctr	Lft casing	I	Wood	White	-0.2	QM
215	B	Conduit	Ctr		I	Metal	White	0.7	QM
217	C	Wall	U Ctr		I	Drywall	White	-0.1	QM
218	C	Door	Ctr	Lft jamb	I	Metal	White	-0.1	QM
219	C	Door	Ctr	U Ctr	I	Wood	White	-0.3	QM
216	C	Pipe	Ctr		I	Insulation	White	0.0	QM
220	D	Wall	U Ctr		I	Drywall	White	-0.1	QM
221	D	Clng Pipe	Ctr		I	Metal	Red	-0.2	QM
Interior Room 033 Bldg C Rm02									
222	A	Wall	U Ctr		I	Drywall	White	-0.2	QM
224	A	Window	Ctr	Sash	I	Wood	White	-0.2	QM
223	A	Window	Ctr	Sill	I	Wood	White	-0.2	QM
225	A	Elec. Box	Ctr		I	Metal	White	-0.1	QM
226	B	Wall	U Ctr		I	Drywall	White	0.0	QM
227	B	Door	Ctr	Header	I	Wood	White	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
228	B	Door	Ctr	U Ctr	I	Wood	White	-0.2	QM
230	D	Window	Ctr	Sash	I	Wood	White	-0.2	QM
229	D	Window	Ctr	Lft casing	I	Wood	White	-0.2	QM
Interior Room 034 Bldg C Rm03									
231	B	Wall	U Ctr		I	Drywall	White	0.0	QM
232	C	Pipe	Ctr		I	Metal	Red	-0.1	QM
234	D	Window	Ctr	Sash	I	Wood	White	-0.1	QM
233	D	Window	Ctr	Lft casing	I	Wood	White	-0.1	QM
Interior Room 035 Bldg C Rm04									
235	A	Wall	U Ctr		I	Drywall	White	0.0	QM
236	A	Crwn Mldg	Ctr		I	Wood	White	0.1	QM
237	B	Wall	U Ctr		I	Drywall	White	-0.3	QM
238	B	Door	Ctr	Header	I	Wood	White	-0.1	QM
239	B	Door	Ctr	L Ctr	I	Wood	White	-0.6	QM
240	D	Window	Ctr	Sill	I	Wood	White	-0.1	QM
Interior Room 036 Bldg C Rm05									
241	A	Door	Ctr	Lft jamb	I	Wood	Cream	-0.2	QM
243	A	HVAC Duct	Ctr		I	Metal	White	-0.2	QM
244	B	Conduit	Ctr		I	Metal	White	-0.2	QM
246	C	Window	Ctr	Sash	I	Wood	White	-0.1	QM
245	C	Window	Ctr	Lft casing	I	Wood	White	-0.1	QM
242	D	Door	Ctr	L Ctr	I	Wood	Cream	-0.4	QM
Interior Room 037 Bldg C Rm06									
247	A	Wall	U Ctr		I	Block	White	-0.3	QM
248	B	Wall	U Ctr		I	Drywall	White	-0.1	QM
249	C	Wall	U Ctr		I	Block	White	-0.2	QM
250	C	Door	Ctr	Lft casing	I	Wood	White	-0.2	QM
251	C	Door	Ctr	U Ctr	I	Wood	White	-0.3	QM
Interior Room 038 Bldg C Rm07									
252	A	Wall	U Ctr		I	Block	White	-0.1	QM
253	A	Door	Ctr	Lft jamb	I	Wood	White	-0.1	QM
254	A	Door	Ctr	U Ctr	I	Wood	White	-0.4	QM
255	B	Sink	Ctr		I	Porcelain	White	>9.9	QM
256	D	Wall	U Ctr		I	Drywall	White	-0.2	QM
Interior Room 039 Bldg C Rm08									
257	A	Wall	U Ctr		I	Drywall	White	-0.2	QM
258	A	Door	Ctr	Lft casing	I	Metal	White	-0.1	QM
259	A	Door	Ctr	U Ctr	I	Wood	White	-0.2	QM
260	C	Wall	U Ctr		I	Drywall	White	-0.2	QM
261	C	Framing Hdr	Ctr		I	Wood	White	2.3	QM
262	C	Trim	Ctr		I	Wood	White	-0.4	QM
263	D	Door	Ctr	Lft jamb	I	Wood	White	-0.3	QM
264	D	Door	Ctr	L Lft	I	Wood	White	-0.5	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 040 Bldg C Rm09									
265	A	Wall	U Ctr		I	Drywall	White	-0.2	QM
266	B	Sink	Ctr		I	Porcelain	White	>9.9	QM
	Lg. Sink								
267	B	Sink	Ctr		I	Porcelain	White	>9.9	QM
	Sm. Sink								
269	C	Wall	U Ctr		I	Drywall	White	-0.3	QM
268	C	Shower Wall	Ctr		I	Paneling	Yellow	-0.4	QM
270	C	Stall	Ctr		I	Vinyl	Tan	0.1	QM
271	D	Toilet Shelf	Ctr		I	Porcelain	White	-0.5	QM
272	D	Toilet Shelf	Ctr		I	Porcelain	White	-0.4	QM
Interior Room 041 Bldg C Rm10									
273	A	Wall	U Ctr		I	Drywall	White	1.5	QM
275	A	Window	Ctr	Sash	I	Wood	Cream	-0.1	QM
274	A	Window	Ctr	Sill	I	Wood	Cream	-0.3	QM
	WN2								
276	A	Door	Ctr	Lft jamb	I	Wood	Cream	-0.1	QM
277	A	Door	Ctr	Lft jamb	I	Wood	Cream	0.0	QM
278	A	Door	Ctr	U Ctr	I	Wood	Cream	-0.2	QM
279	B	Wall	U Ctr		I	Drywall	White	-0.2	QM
280	B	Door	Ctr	Lft casing	I	Wood	White	-0.1	QM
281	C	Window	Ctr	Sash	I	Wood	Cream	-0.1	QM
282	C	Door	Ctr	Lft casing	I	Metal	Cream	0.0	QM
283	C	Door	Ctr	U Ctr	I	Wood	Cream	-0.2	QM
284	D	Door	Ctr	Header	F	Wood	Cream	0.0	QM
Interior Room 042 Bldg C Rm11									
285	A	Wall	U Ctr		F	Drywall	Cream	-0.3	QM
286	D	Door	Ctr	Header	F	Wood	White	0.0	QM
287	D	Door	Ctr	U Rgt	F	Wood	White	0.1	QM
Interior Room 043 Bldg C Rm12									
288	A	Wall	U Ctr		F	Drywall	White	-0.4	QM
291	B	Wall	U Ctr		F	Drywall	White	-0.1	QM
290	B	Baseboard	Ctr		F	Wood	White	-0.6	QM
289	B	Toilet Shelf	Ctr		F	Porcelain	White	-0.2	QM
298	B	Divider	Ctr		F	Vinyl	Tan	-0.1	QM
294	C	Window	Ctr	Sash	F	Wood	Cream	-0.1	QM
293	C	Window	Ctr	Sill	F	Wood	Cream	-0.1	QM
292	C	Urinal	Ctr		F	Porcelain	White	1.3	QM
295	D	Door	Ctr	U Ctr	F	Wood	Cream	-0.1	QM
296	D	Sink	Ctr		F	Porcelain	White	>9.9	QM
297	D	Sink	Ctr		F	Porcelain	White	>9.9	QM
Interior Room 044 Bldg C Rm13									
299	A	Wall	U Ctr		F	Drywall	White	0.0	QM
301	A	Window	Ctr	Sash	F	Wood	Cream	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
303	A WN3	Window	Ctr	Sash	F	Wood	Cream	-0.1	QM
302	A WN3	Window	Ctr	Sill	F	Wood	Cream	0.0	QM
300	A WN2	Window	Ctr	Lft casing	F	Wood	Cream	-0.1	QM
304	B	Door	Ctr	Header	F	Wood	White	-0.1	QM
306	B	Door	Ctr	Lft casing	F	Wood	Cream	0.0	QM
305	B	Door	Ctr	U Ctr	F	Wood	Cream	-0.1	QM
307	B	Column	Ctr	U column	F	Drywall	White	-0.1	QM
308	C WN1	Window	Ctr	Lft casing	F	Wood	Cream	0.0	QM
309	D	Cabinet	Ctr		F	Metal	Cream	0.0	QM
Interior Room 045 Bldg C Rm14									
311	A	Window	Ctr	Sash	F	Wood	White	-0.2	QM
310	A	Window	Ctr	Sill	F	Wood	White	-0.3	QM
Interior Room 046 Bldg C Rm15									
312	A	Wall	U Ctr		F	Drywall	White	-0.2	QM
314	A	Door	Ctr	Header	F	Metal	Cream	-0.1	QM
315	A	Door	Ctr	U Ctr	F	Wood	Cream	-0.2	QM
313	A	Pipe	Ctr		F	Metal	Red	-0.2	QM
316	B	Box	Ctr		F	Metal	White	-0.1	QM
317	C	Window	Ctr	Rgt casing	F	Wood	Cream	-0.1	QM
Interior Room 047 Bldg C Rm16									
318	A	Wall	U Ctr		F	Drywall	White	-0.2	QM
320	A	Window	Ctr	Sash	F	Wood	White	-0.1	QM
319	A	Window	Ctr	Lft jamb	F	Wood	White	-0.2	QM
321	B	Door	Ctr	Lft jamb	F	Wood	White	-0.1	QM
322	B	Door	Ctr	L Ctr	F	Wood	White	-0.4	QM
323	C	Wall	U Ctr		F	Drywall	White	0.0	QM
324	C	Window	Ctr	Lft jamb	F	Wood	White	-0.1	QM
326	D	Door	Ctr	Header	F	Wood	Cream	1.8	QM
325	D	Door	Ctr	Lft casing	F	Wood	Cream	-0.3	QM
327	D	Column	Ctr	U column	F	Wood	Cream	-0.1	QM
328	D	Trim	Ctr		F	Wood	Cream	-0.1	QM
Interior Room 048 Bldg C Rm17									
332	A	Ceiling			F	Drywall	White	-0.4	QM
329	B	Wall	U Ctr		F	Block	White	0.0	QM
330	B	Door	Ctr	Lft jamb	F	Wood	Brown	-0.2	QM
331	B	Door	Ctr	U Ctr	F	Wood	Brown	-0.1	QM
Interior Room 049 Bldg C Rm18									
333	C	Wall	U Ctr		F	Block	White	0.0	QM
336	C	Ceiling			F	Drywall	White	-0.2	QM
334	C	Door	Ctr	Lft jamb	F	Wood	White	-0.2	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
335	C	Door	Ctr	U Ctr	F	Wood	White	-0.3	QM
Interior Room 050 Bldg C Rm19									
337	A	Wall	U Ctr		F	Concrete	White	0.1	QM
340	A	Floor			F	Concrete	Grey	-0.3	QM
341	A	Boiler	Ctr		F	Metal	Grey	-0.2	QM
338	A	Pipe	Ctr		F	Metal	Yellow	-0.3	QM
	Natl	Gas							
339	A	Conduit	Ctr		F	Metal	White	-0.3	QM
Interior Room 051 Bldg H Rm01									
354	A	Wall	U Ctr		F	Drywall	White	-0.2	QM
356	A	Window	Ctr	Sash	F	Wood	White	-0.1	QM
	WN1								
355	A	Window	Ctr	Sill	F	Wood	White	0.1	QM
	WN1								
357	B	Wall	U Ctr		F	Drywall	White	-0.1	QM
359	B	Window	Ctr	Sash	F	Wood	White	-0.2	QM
358	B	Window	Ctr	Sill	F	Wood	White	-0.2	QM
	WN2								
360	C	Door	Ctr	Lft casing	F	Metal	White	0.1	QM
361	C	Door	Ctr	U Ctr	F	Wood	White	-0.4	QM
Interior Room 052 Bldg H Rm02									
362	B	Wall	U Ctr		F	Drywall	White	-0.2	QM
363	C	Wall	U Ctr		F	Drywall	White	-0.2	QM
Interior Room 053 Bldg H Rm03									
364	B	Wall	U Ctr		F	Drywall	White	-0.2	QM
365	B	Door	Ctr	Lft jamb	F	Metal	White	-0.1	QM
366	B	Door	Ctr	U Ctr	F	Wood	White	-0.2	QM
367	B	Pipe	Ctr		F	Metal	Blue	-0.1	QM
368	B	Pipe	Ctr		F	Metal	Red	0.2	QM
Interior Room 054 Bldg H Rm04									
369	B	Wall	U Ctr		F	Drywall	White	-0.2	QM
370	B	Door	Ctr	Lft jamb	F	Metal	White	0.0	QM
371	B	Door	Ctr	U Ctr	F	Wood	White	-0.4	QM
Interior Room 055 Bldg H Rm05									
372	A	Wall	U Ctr		F	Drywall	White	-0.3	QM
373	A	Door	Ctr	Lft jamb	F	Metal	White	-0.1	QM
374	A	Door	Ctr	U Ctr	F	Wood	White	-0.4	QM
375	C	Wall	U Ctr		F	Drywall	White	-0.1	QM
376	C	Toilet Shelf	Ctr		F	Porcelain	White	-0.4	QM
377	C	Sink	Ctr		F	Porcelain	White	-0.4	QM
Interior Room 056 Bldg H Rm06									
378	A	Wall	U Ctr		F	Drywall	White	-0.2	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
379	B	Wall	U Ctr		F	Drywall	White	-0.3	QM
380	B	Door	Ctr	Lft jamb	F	Metal	White	-0.1	QM
381	B	Door	Ctr	U Ctr	F	Wood	White	-0.4	QM
Interior Room 057 Bldg H Rm07									
382	B	Wall	U Ctr		F	Drywall	White	-0.1	QM
383	B	Door	Ctr	Lft casing	F	Metal	White	-0.1	QM
384	B	Door	Ctr	U Lft	F	Wood	White	-0.1	QM
385	C	Wall	U Ctr		F	Drywall	White	-0.1	QM
Interior Room 058 Bldg H Rm08									
386	A	Wall	U Ctr		F	Drywall	White	-0.2	QM
389	B	Wall	U Ctr		F	Drywall	White	-0.1	QM
387	B	Door	Ctr	Lft jamb	F	Metal	White	0.0	QM
388	B	Door	Ctr	U Ctr	F	Wood	White	-0.1	QM
Interior Room 059 Bldg H Rm09									
390	A	Wall	U Ctr		F	Drywall	White	0.0	QM
391	D	Wall	U Ctr		F	Drywall	White	-0.2	QM
392	D	Door	Ctr	Lft jamb	F	Metal	White	0.0	QM
393	D	Door	Ctr	U Ctr	F	Wood	White	-0.1	QM
Interior Room 060 Bldg H Rm10									
400	A	Wall	U Ctr		F	Block	White	0.0	QM
401	D	Wall	U Ctr		F	Block	White	0.2	QM
Interior Room 061 Bldg E Rm01									
402	A	Wall	U Ctr		F	Block	White	0.2	QM
403	A	Wall	U Ctr		F	Block	White	-0.2	QM
405	A	Floor			F	Concrete	Grey	0.1	QM
404	A	Window	Ctr	Sill	F	Block	White	0.3	QM
412	B	Wall	U Ctr		F	Fiberglass	White	-0.1	QM
406	C	Window	Ctr	Lft casing	F	Wood	Brown	-0.2	QM
407	C	Window	Ctr	Lft casing	F	Wood	Brown	0.0	QM
409	C	Door	Ctr	Rgt casing	F	Metal	Cream	0.2	QM
408	C	Door	Ctr	Lft casing	F	Metal	Cream	0.1	QM
410	C	Door	Ctr	U Ctr	F	Metal	Cream	-0.1	QM
411	C	Pipe	Ctr		F	Metal	Red	1.1	QM
Interior Room 062 Bldg E Rm02									
413	B	Wall	U Ctr		F	Block	White	0.0	QM
416	C	Window	Ctr	Sill	F	Block	White	0.2	QM
414	C	Door	Ctr	Lft casing	F	Metal	Cream	0.0	QM
415	C	Door	Ctr	U Ctr	F	Metal	Cream	-0.1	QM
417	C	I-Beam	Ctr		F	Metal	White	9.7	QM
418	C	HVAC Duct	Ctr		F	Metal	White	-0.1	QM
	Ceiling								

Calibration Readings

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
001								1.0	Std
002								0.8	Std
003								1.0	Std
206								1.1	Std
207								1.1	Std
208								1.2	Std
429								1.0	Std
430								1.0	Std
431								1.0	Std

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02945 - 12/02/14 15:48

INSPECTION FOR:

PERFORMED AT:

INSPECTION DATE: 12/02/14

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 02945

ACTION LEVEL: 1.0 mg/cm^2

OPERATOR LICENSE: _____

SIGNED: _____ **Date:** _____

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	12/02/14
Report Date:	12/12/2014
Abatement Level:	1.0
Report No.	S#02945 - 12/02/14 15:48
Total Readings:	25
Job Started:	12/02/14 15:48
Job Finished:	12/04/14 09:43

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Bldg F Ext.									
017	A	Wall	U Ctr		F	Metal	White	0.1	QM
018	A	Wall	U Ctr		F	Metal	White	-0.2	QM
Stoop									
019	A	Window	Ctr	Sill	F	Metal	White	-0.3	QM
020	A	Door	Ctr	U Ctr	F	Metal	White	0.0	QM
024	B	Soffit			F	Metal	Cream	1.0	QM
021	B	HVAC	Ctr		F	Metal	White	-0.2	QM
022	B	Stoop	Ctr		F	Concrete	Yellow	-0.2	QM
023	B	Garage Door	Ctr		F	Concrete	Yellow	-0.3	QM
Stoop									
025	D	Wall	U Rgt		F	Metal	White	-0.2	QM
Interior Room 001 Bldg FSouth									
003	A	Wall	U Ctr		F	Drywall	White	1.0	Std
004	A	Door	Ctr	Lft casing	F	Metal	White	-0.1	QM
006	A	Door	Ctr	Lft jamb	F	Metal	White	-0.2	QM
D2									
005	A	Door	Ctr	U Ctr	F	Metal	White	0.0	QM
007	B	Wall	U Ctr		F	Drywall	White	0.0	QM
008	C	Door	Ctr	Lft casing	F	Metal	White	-0.2	QM
009	C	Door	Ctr	U Ctr	F	Metal	White	-0.1	QM
010	C	Garage Dr	Ctr		F	Metal	White	0.0	QM
casing									
011	C	Garage Dr	Ctr		F	Metal	White	-0.1	QM
panel									
Interior Room 002 Bldg FNorth									
012	A	Wall	U Ctr		F	Drywall	White	-0.1	QM
013	A	Door	Ctr	Header	F	Metal	White	-0.3	QM
014	A	Door	Ctr	U Ctr	F	Metal	White	-0.2	QM
016	C	Wall	U Ctr		F	Block	Green	-0.4	QM
015	D	Wall	U Ctr		F	Drywall	White	-0.1	QM
Calibration Readings									
001								1.0	Std
002								1.0	Std

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02945 - 12/04/14 09:44

INSPECTION FOR:

PERFORMED AT:

INSPECTION DATE: 12/04/14

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 02945

ACTION LEVEL: 0.7 mg/cm^2

OPERATOR LICENSE: _____

SIGNED: _____ **Date:** _____

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	12/04/14
Report Date:	12/12/2014
Abatement Level:	0.7
Report No.	S#02945 - 12/04/14 09:44
Total Readings:	93
Job Started:	12/04/14 09:44
Job Finished:	12/05/14 11:05

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Shed Ext.									
002	A	Wall	L Rgt		I	Vinyl	Yellow	-0.3	QM
001	A	Wall	U Rgt		I	Vinyl	Yellow	-0.2	QM
005	A	Soffit			I	Wood	Blue	-0.3	QM
003	B	Door	Rgt	Lft casing	I	Metal	Blue	0.0	QM
004	B	Door	Rgt	U Ctr	I	Metal	Blue	-0.1	QM
006	D	Door	Ctr	Lft casing	I	Metal	Blue	-0.1	QM
007	D	Door	Ctr	U Ctr	I	Metal	Blue	-0.1	QM
008	D	Post	Ctr		I	Metal	Yellow	-0.1	QM
Exterior Room 002 Bldg G Ext.									
055	A	Wall	U Lft		I	Block	White	-0.1	QM
051	A	Wall	U Ctr		I	Metal	White	-0.2	QM
057	A D4	Door	Lft	Lft casing	I	Metal	White	-0.1	QM
058	A	Door	Lft	U Lft	I	Metal	White	-0.2	QM
054	A D2	Door	Ctr	U Ctr	I	Metal	Tan	-0.4	QM
056	A	Ladder	Lft		I	Metal	White	-0.2	QM
052	A casing	Garage Door	Ctr		I	Metal	Tan	0.0	QM
053	A panel	Garage Door	Ctr		I	Metal	Tan	-0.1	QM
059	C CD corner	Wall	U Ctr		I	Block	White	-0.1	QM
060	C	Wall	U Ctr		I	Metal	White	-0.2	QM
061	D	Wall	U Ctr		I	Metal	White	-0.2	QM
062	D	Post	Ctr		I	Metal	Red	-0.2	QM
Exterior Room 003 Bldg G Roof									
066	A domed	Exhaust Fan	Ctr		I	Metal	Tan	0.7	QM
067	A cylindrical	Exhaust Fan	Ctr		I	Metal	Tan	0.7	QM
068	C	Island	Ctr		I	Concrete	White	-0.1	QM
063	D CD corner	Vent	Ctr		I	Metal	Grey	-0.1	QM
064	D CD corner	Flashing	Ctr		I	Metal	Tan	-0.2	QM
065	D	Drip Edge	Ctr		I	Metal	Tan	1.0	QM
Exterior Room 004 Bldg E Roof									

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
069	C	Exhaust	Ctr		I	Metal	White	0.0	QM
	CD corner								
070	C	Vent	Ctr		I	Metal	White	-0.2	QM
	Domed								
Exterior Room 005 Bldg H Roof									
071	B	Flashing	Ctr		I	Metal	White	-0.1	QM
072	B	Air Remover	Ctr		I	Metal	White	-0.2	QM
	BC corner								
073	B	Duct	Ctr		I	Metal	Grey	0.1	QM
	Framing								
Exterior Room 006 Bldg C Roof									
077	A	HVAC	Ctr		I	Metal	White	-0.2	QM
	Frame								
078	A	HVAC	Ctr		I	Metal	White	-0.1	QM
	Unit								
079	A	HVAC	Ctr		I	Metal	White	-0.1	QM
	Vent Cone								
Exterior Room 007 Bldg C Ext.									
080	A	Window	Ctr	Lft casing	I	Wood	Tan	-0.1	QM
	WN1								
Exterior Room 008 Bldg B Roof									
081	D	Awning	Ctr		I	Wood	Silver	-0.3	QM
	Vestibule								
082	D	HVAC	Ctr		I	Metal	Tan	-0.1	QM
	Frame								
083	D	HVAC	Ctr		I	Metal	White	-0.1	QM
	Unit								
084	D	Duct	Ctr		I	Metal	White	-0.2	QM
	Insulation								
Exterior Room 009 Bldg A Roof									
085	C	Fascia			I	Wood	Pink	-0.1	QM
086	C	Steel Frame	Ctr		I	Metal	Grey	-0.1	QM
087	C	AHU Unit	Ctr		I	Metal	SIlver	-0.1	QM
088	C	Metal Duct	Ctr		I	Metal	SIlver	0.0	QM
089	C	Exhaust	Ctr		I	Metal	SIlver	-0.5	QM
	CD corner								
090	C	Exhaust	Ctr		I	Metal	SIlver	0.0	QM
	AD Corner								
Interior Room 001 Bldg G Rm03									
009	A	Wall	U Ctr		I	Drywall	White	-0.1	QM
023	A	Ceiling			I	Metal	White	-0.2	QM
010	A	Door	Ctr	Lft casing	I	Metal	White	-0.1	QM
	D2								

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
011	A	Door	Ctr	U Ctr	I	Metal	White	-0.2	QM
	D2								
024	A	I-Beam	Ctr		I	Metal	White	3.5	QM
025	A	Decking	Ctr		I	Metal	White	-0.1	QM
026	A	CMU Ceiling	Ctr		I	Block	White	0.1	QM
012	A	Garage Dr	Ctr		I	Metal	Brown	-0.3	QM
	Casing								
013	A	Garage Dr	Ctr		I	Metal	Brown	-0.1	QM
014	B	Door	Ctr	Lft casing	I	Metal	White	0.1	QM
	D1								
017	B	Door	Ctr	Lft jamb	I	Metal	White	-0.1	QM
	D2								
015	B	Door	Ctr	U Ctr	I	Metal	White	-0.2	QM
016	B	Pipe	Ctr		I	Metal	Grey	-0.7	QM
019	C	Wall	L Ctr		I	Drywall	Green	-0.2	QM
018	C	Wall	U Ctr		I	Drywall	White	-0.1	QM
020	C	I-Beam	Ctr		I	Metal	White	>9.9	QM
021	C	Decking	Ctr		I	Metal	White	0.2	QM
022	C	Joist	Ctr		I	Metal	White	0.1	QM
Interior Room 002 Bldg G Rm01									
027	A	Wall	U Ctr		I	Drywall	White	0.0	QM
028	A	Door	Ctr	Header	I	Metal	White	0.1	QM
029	A	Door	Ctr	U Ctr	I	Metal	White	0.0	QM
030	B	Wall	U Ctr		I	Drywall	White	-0.1	QM
035	B	Floor			I	Concrete	Grey	-0.4	QM
032	B	Window	Ctr	Lft casing	I	Metal	White	0.3	QM
	WN2								
031	B	Door	Ctr	Lft casing	I	Metal	White	0.3	QM
033	D	Wall	U Ctr		I	Drywall	Black	-0.3	QM
034	D	Ceiling			I	Drywall	White	-0.1	QM
Interior Room 003 Bldg G Rm02									
036	A	Wall	U Ctr		I	Block	White	-0.4	QM
037	A	Door	Ctr	Lft jamb	I	Metal	White	0.1	QM
038	A	Door	Ctr	U Ctr	I	Metal	White	-0.1	QM
039	B	Door	Ctr	Header	I	Metal	White	0.1	QM
040	B	Door	Ctr	U Ctr	I	Metal	White	-0.1	QM
041	D	Wall	U Ctr		I	Block	White	-0.3	QM
Interior Room 004 Bldg G Rm04									
042	A	Wall	U Ctr		I	Drywall	White	-0.2	QM
043	B	Wall	U Ctr		I	Block	White	-0.1	QM
Interior Room 005 Bldg G Rm05									
044	A	Wall	U Ctr		I	Block	White	-0.1	QM
045	A	Door	Ctr	Lft casing	I	Metal	White	0.0	QM
046	A	Door	Ctr	U Lft	I	Metal	White	-0.2	QM
047	B	Wall	U Ctr		I	Block	White	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
048	B	Rafters	Ctr		I	Metal	Red	-0.1	QM
049	B	Decking	Ctr		I	Metal	Grey	0.1	QM
050	C	Wall	U Ctr		I	Drywall	White	-0.2	QM
Calibration Readings									
074								0.8	Std
075								0.8	Std
076								0.9	Std
091								0.9	Std
092								0.8	Std
093								0.8	Std

---- End of Readings ----

TRIAD ENGINEERING, INC.

APPENDIX 2

ALS Laboratory Report for November 10, 2014 Samples

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

November 26, 2014

Mr. Nick Wolfe
Triad Engineering
1075D Sherman Avenue
Hagerstown, MD 21740

Certificate of Analysis

Project Name:	**Projects for Nick Wolf**	Workorder:	**2039337**
Purchase Order:		Workorder ID:	**Former CPSC/03-14-0350**

Dear Mr. Wolfe:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, November 11, 2014.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental
34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2039337001	Composite A	Solid	11/10/2014 16:14	11/11/2014 11:00	Collected by Client
2039337002	Composite B	Solid	11/10/2014 15:38	11/11/2014 11:00	Collected by Client
2039337003	Composite C	Solid	11/10/2014 14:45	11/11/2014 11:00	Collected by Client
2039337004	TW-1	Water	11/10/2014 16:30	11/11/2014 11:00	Collected by Client
2039337005	Composite E	Solid	11/10/2014 11:40	11/11/2014 11:00	Collected by Client
2039337006	Composite F	Solid	11/10/2014 12:00	11/11/2014 11:00	Collected by Client
2039337007	Composite G	Solid	11/10/2014 12:30	11/11/2014 11:00	Collected by Client
2039337008	Composite H	Solid	11/10/2014 14:30	11/11/2014 11:00	Collected by Client
2039337009	TP-3	Solid	11/10/2014 14:00	11/11/2014 11:00	Collected by Client
2039337010	TP-4	Solid	11/10/2014 15:55	11/11/2014 11:00	Collected by Client

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SAMPLE SUMMARY

Workorder: 2039337 Former CPSC/03-14-0350

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit

PROJECT SUMMARY

Workorder: 2039337 Former CPSC/03-14-0350

Sample Comments

Lab ID: 2039337001 **Sample ID:** Composite A **Sample Type:** SAMPLE

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

Lab ID: 2039337002 **Sample ID:** Composite B **Sample Type:** SAMPLE

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

Lab ID: 2039337003 **Sample ID:** Composite C **Sample Type:** SAMPLE

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

Lab ID: 2039337005 **Sample ID:** Composite E **Sample Type:** SAMPLE

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

Lab ID: 2039337006 **Sample ID:** Composite F **Sample Type:** SAMPLE

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

Lab ID: 2039337007 **Sample ID:** Composite G **Sample Type:** SAMPLE

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

Lab ID: 2039337008 **Sample ID:** Composite H **Sample Type:** SAMPLE

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

Lab ID: 2039337009 **Sample ID:** TP-3 **Sample Type:** SAMPLE

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

See attached subcontracted results from ALS-Holland for DRO/ORO results. SRB 11/21/14

Lab ID: 2039337010 **Sample ID:** TP-4 **Sample Type:** SAMPLE

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

See attached subcontracted results from ALS-Holland for DRO/ORO results. SRB 11/21/14

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337001** Date Collected: 11/10/2014 16:14 Matrix: Solid
Sample ID: **Composite A** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	50.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Acrylonitrile	ND		ug/kg	10	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Benzene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Bromodichloromethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Bromoform	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Bromomethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
2-Butanone	ND		ug/kg	10	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Chlorobenzene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Chlorodibromomethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Chloroethane	ND		ug/kg	5.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
2-Chloroethylvinyl ether	ND		ug/kg	150	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Chloroform	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Chloromethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Ethylbenzene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Methylene Chloride	25.3		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Tetrachloroethene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Toluene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Trichloroethene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Vinyl Chloride	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.4		%	56 - 124	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
4-Bromofluorobenzene (S)	96.3		%	51 - 128	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Dibromofluoromethane (S)	96.4		%	62 - 123	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
Toluene-d8 (S)	100		%	59 - 131	SW846 8260B	11/11/14	JPA	11/12/14 04:46	JPA	A
WET CHEMISTRY										
Moisture	13.2		%	0.1	S2540G-97			11/12/14 09:32	AAP	A

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337001** Date Collected: 11/10/2014 16:14 Matrix: Solid
Sample ID: **Composite A** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
Total Solids	86.8		%	0.1	S2540G-97		11/12/14 09:32	AAP	A
METALS									
Lead, Total	14.7		mg/kg	2.0	SW846 6010C	11/12/14 AAM	11/13/14 03:11	TSS	A1

Shannon Butler
Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337002** Date Collected: 11/10/2014 15:38 Matrix: Solid
Sample ID: **Composite B** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	54.8	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Acrylonitrile	ND		ug/kg	11.0	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Benzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Bromodichloromethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Bromoform	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Bromomethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
2-Butanone	ND		ug/kg	11.0	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Chlorobenzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Chlorodibromomethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Chloroethane	ND		ug/kg	5.5	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
2-Chloroethylvinyl ether	ND		ug/kg	164	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Chloroform	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Chloromethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.4	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Ethylbenzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Methylene Chloride	25.0		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Tetrachloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Toluene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Trichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Vinyl Chloride	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.5		%	56 - 124	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
4-Bromofluorobenzene (S)	95.6		%	51 - 128	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Dibromofluoromethane (S)	97		%	62 - 123	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
Toluene-d8 (S)	100		%	59 - 131	SW846 8260B	11/11/14	JPA	11/12/14 05:09	JPA	A
WET CHEMISTRY										
Moisture	12.4		%	0.1	S2540G-97			11/12/14 09:32	AAP	A

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337002** Date Collected: 11/10/2014 15:38 Matrix: Solid
Sample ID: **Composite B** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
Total Solids	87.6		%	0.1	S2540G-97		11/12/14 09:32	AAP	A
METALS									
Lead, Total	35.9		mg/kg	2.1	SW846 6010C	11/12/14 AAM	11/13/14 03:22	TSS	A1

Shannon Butler
Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337003** Date Collected: 11/10/2014 14:45 Matrix: Solid
Sample ID: **Composite C** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	56.0	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Acrylonitrile	ND		ug/kg	11.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Benzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Bromodichloromethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Bromoform	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Bromomethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
2-Butanone	ND		ug/kg	11.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Chlorobenzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Chlorodibromomethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Chloroethane	ND		ug/kg	5.6	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
2-Chloroethylvinyl ether	ND		ug/kg	168	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Chloroform	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Chloromethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.5	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Ethylbenzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Methylene Chloride	27.4		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Tetrachloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Toluene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Trichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Vinyl Chloride	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.8		%	56 - 124	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
4-Bromofluorobenzene (S)	97.7		%	51 - 128	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Dibromofluoromethane (S)	98.7		%	62 - 123	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
Toluene-d8 (S)	100		%	59 - 131	SW846 8260B	11/11/14	JPA	11/12/14 05:32	JPA	A
WET CHEMISTRY										
Moisture	15.3		%	0.1	S2540G-97			11/12/14 09:32	AAP	A

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337003** Date Collected: 11/10/2014 14:45 Matrix: Solid
Sample ID: **Composite C** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
Total Solids	84.7		%	0.1	S2540G-97		11/12/14 09:32	AAP	A
METALS									
Lead, Total	16.7		mg/kg	2.4	SW846 6010C	11/12/14 AAM	11/13/14 03:13	TSS	A1

Shannon Butler
Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337004** Date Collected: 11/10/2014 16:30 Matrix: Water
Sample ID: **TW-1** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
WET CHEMISTRY									
Flashpoint/Ignitability	See comment	12	Deg. F		SW-846 1010A		11/26/14 10:00	JWB	A

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337005** Date Collected: 11/10/2014 11:40 Matrix: Solid
Sample ID: **Composite E** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	53.9	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Acrylonitrile	ND		ug/kg	10.8	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Benzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Bromodichloromethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Bromoform	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Bromomethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
2-Butanone	ND		ug/kg	10.8	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Chlorobenzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Chlorodibromomethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Chloroethane	ND		ug/kg	5.4	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
2-Chloroethylvinyl ether	ND		ug/kg	162	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Chloroform	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Chloromethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.3	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Ethylbenzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Methylene Chloride	28.7		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Tetrachloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Toluene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Trichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Vinyl Chloride	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.8		%	56 - 124	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
4-Bromofluorobenzene (S)	99.6		%	51 - 128	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Dibromofluoromethane (S)	108		%	62 - 123	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
Toluene-d8 (S)	80.9		%	59 - 131	SW846 8260B	11/11/14	JPA	11/12/14 05:56	JPA	A
WET CHEMISTRY										
Moisture	16.6		%	0.1	S2540G-97			11/12/14 09:32	AAP	A

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337005** Date Collected: 11/10/2014 11:40 Matrix: Solid
Sample ID: **Composite E** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
Total Solids	83.4		%	0.1	S2540G-97		11/12/14 09:32	AAP	A
METALS									
Lead, Total	17.8		mg/kg	2.1	SW846 6010C	11/12/14 AAM	11/13/14 03:31	TSS	A1

Shannon Butler

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337006** Date Collected: 11/10/2014 12:00 Matrix: Solid
Sample ID: **Composite F** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	60.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Acrylonitrile	ND		ug/kg	12.1	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Benzene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Bromodichloromethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Bromoform	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Bromomethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
2-Butanone	ND		ug/kg	12.1	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Chlorobenzene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Chlorodibromomethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Chloroethane	ND		ug/kg	6.0	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
2-Chloroethylvinyl ether	ND		ug/kg	181	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Chloroform	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Chloromethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.8	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Ethylbenzene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Methylene Chloride	31.5		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Tetrachloroethene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Toluene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Trichloroethene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Vinyl Chloride	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	106		%	56 - 124	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
4-Bromofluorobenzene (S)	99.2		%	51 - 128	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Dibromofluoromethane (S)	105		%	62 - 123	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
Toluene-d8 (S)	109		%	59 - 131	SW846 8260B	11/11/14	JPA	11/12/14 06:19	JPA	A
WET CHEMISTRY										
Moisture	17.5		%	0.1	S2540G-97			11/12/14 09:32	AAP	A

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337006** Date Collected: 11/10/2014 12:00 Matrix: Solid
Sample ID: **Composite F** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
Total Solids	82.5		%	0.1	S2540G-97		11/12/14 09:32	AAP	A
METALS									
Lead, Total	21.0		mg/kg	2.1	SW846 6010C	11/12/14 AAM	11/13/14 03:33	TSS	A1

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337007** Date Collected: 11/10/2014 12:30 Matrix: Solid
Sample ID: **Composite G** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	58.0	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Acrylonitrile	ND		ug/kg	11.6	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Benzene	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Bromodichloromethane	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Bromoform	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Bromomethane	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
2-Butanone	ND		ug/kg	11.6	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Chlorobenzene	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Chlorodibromomethane	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Chloroethane	ND		ug/kg	5.8	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
2-Chloroethylvinyl ether	ND		ug/kg	174	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Chloroform	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Chloromethane	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.6	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Ethylbenzene	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Methylene Chloride	27.8		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Tetrachloroethene	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Toluene	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Trichloroethene	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Vinyl Chloride	ND		ug/kg	2.3	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.2		%	56 - 124	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
4-Bromofluorobenzene (S)	95.9		%	51 - 128	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Dibromofluoromethane (S)	97.4		%	62 - 123	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
Toluene-d8 (S)	99.9		%	59 - 131	SW846 8260B	11/11/14	JPA	11/12/14 06:42	JPA	A
WET CHEMISTRY										
Moisture	17.3		%	0.1	S2540G-97			11/12/14 09:32	AAP	A

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337007** Date Collected: 11/10/2014 12:30 Matrix: Solid
Sample ID: **Composite G** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
Total Solids	82.7		%	0.1	S2540G-97		11/12/14 09:32	AAP	A
METALS									
Lead, Total	9.9		mg/kg	2.4	SW846 6010C	11/12/14 AAM	11/13/14 03:36	TSS	A1

Shannon Butler

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337008** Date Collected: 11/10/2014 14:30 Matrix: Solid
Sample ID: **Composite H** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	60.1	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Acrylonitrile	ND		ug/kg	12.0	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Benzene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Bromodichloromethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Bromoform	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Bromomethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
2-Butanone	ND		ug/kg	12.0	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Chlorobenzene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Chlorodibromomethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Chloroethane	ND		ug/kg	6.0	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
2-Chloroethylvinyl ether	ND		ug/kg	180	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Chloroform	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Chloromethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.8	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Ethylbenzene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Methylene Chloride	20.0		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Tetrachloroethene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Toluene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Trichloroethene	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Vinyl Chloride	ND		ug/kg	2.4	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	95.9		%	56 - 124	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
4-Bromofluorobenzene (S)	93.7		%	51 - 128	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Dibromofluoromethane (S)	98.5		%	62 - 123	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
Toluene-d8 (S)	117		%	59 - 131	SW846 8260B	11/11/14	JPA	11/12/14 07:05	JPA	A
WET CHEMISTRY										
Moisture	17.0		%	0.1	S2540G-97			11/12/14 09:32	AAP	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337008** Date Collected: 11/10/2014 14:30 Matrix: Solid
Sample ID: **Composite H** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
Total Solids	83.0		%	0.1	S2540G-97		11/12/14 09:32	AAP	A
METALS									
Lead, Total	19.2		mg/kg	2.3	SW846 6010C	11/12/14 AAM	11/13/14 03:39	TSS	A1

Shannon Butler
Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337009** Date Collected: 11/10/2014 14:00 Matrix: Solid
Sample ID: **TP-3** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Gasoline Range Organics	ND		ug/kg	10200	SW846 8015D	11/11/14	DD	11/12/14 13:52	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
a,a,a-Trifluorotoluene (S)	86.1		%	72 - 134	SW846 8015D	11/11/14	DD	11/12/14 13:52	DD	A
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	50.4	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Acrylonitrile	ND		ug/kg	10.1	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Benzene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Bromodichloromethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Bromoform	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Bromomethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
2-Butanone	ND		ug/kg	10.1	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Chlorobenzene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Chlorodibromomethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Chloroethane	ND		ug/kg	5.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
2-Chloroethylvinyl ether	ND		ug/kg	151	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Chloroform	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Chloromethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Ethylbenzene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Methylene Chloride	14.7		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Tetrachloroethene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Toluene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Trichloroethene	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Vinyl Chloride	ND		ug/kg	2.0	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	100		%	56 - 124	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
4-Bromofluorobenzene (S)	99.8		%	51 - 128	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337009** Date Collected: 11/10/2014 14:00 Matrix: Solid
Sample ID: **TP-3** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
Dibromofluoromethane (S)	109		%	62 - 123	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
Toluene-d8 (S)	105		%	59 - 131	SW846 8260B	11/11/14	JPA	11/12/14 07:29	JPA	A
WET CHEMISTRY										
Moisture	14.2		%	0.1	S2540G-97			11/13/14 11:22	AAP	B
Total Solids	85.8		%	0.1	S2540G-97			11/13/14 11:22	AAP	B
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See Attached				Subcontract			11/13/14 19:35	CLT	A

Shannon Butler
Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337010** Date Collected: 11/10/2014 15:55 Matrix: Solid

Sample ID: **TP-4** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
PETROLEUM HC's										
Gasoline Range Organics	ND		ug/kg	10600	SW846 8015D	11/11/14	DD	11/12/14 14:28	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
a,a,a-Trifluorotoluene (S)	88.4		%	72 - 134	SW846 8015D	11/11/14	DD	11/12/14 14:28	DD	A
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	55.8	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Acrylonitrile	ND		ug/kg	11.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Benzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Bromodichloromethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Bromoform	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Bromomethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
2-Butanone	ND		ug/kg	11.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Chlorobenzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Chlorodibromomethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Chloroethane	ND		ug/kg	5.6	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
2-Chloroethylvinyl ether	ND		ug/kg	167	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Chloroform	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Chloromethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.5	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Ethylbenzene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Methylene Chloride	15.7		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Tetrachloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Toluene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Trichloroethene	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Vinyl Chloride	ND		ug/kg	2.2	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96		%	56 - 124	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
4-Bromofluorobenzene (S)	98.9		%	51 - 128	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2039337 Former CPSC/03-14-0350

Lab ID: **2039337010** Date Collected: 11/10/2014 15:55 Matrix: Solid
Sample ID: **TP-4** Date Received: 11/11/2014 11:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
Dibromofluoromethane (S)	107		%	62 - 123	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
Toluene-d8 (S)	106		%	59 - 131	SW846 8260B	11/11/14	JPA	11/12/14 07:52	JPA	A
WET CHEMISTRY										
Moisture	17.9		%	0.1	S2540G-97			11/13/14 11:22	AAP	A
Total Solids	82.1		%	0.1	S2540G-97			11/13/14 11:22	AAP	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See Attached				Subcontract			11/13/14 18:40	CLT	A

Shannon Butler
Ms. Shannon Butler
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2039337004	1	TW-1	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is considered to be ignitable. (Ref 40 CFR 261.21)				
2039337004	2	TW-1	SW-846 1010A	Flashpoint/Ignitability
Sample flashed at 120 degrees F.				

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC # ALS Q *2039337*

Page 3 of 3

Client Name: Triad Engineering
Address: 1075 D Sherman Ave, Hagerstown, Maryland 21740
Contact: Nicholas Wolfe
Phone#: 301-797-6400
Project Name/#: Former CPSC/03-14-0350
Bill To: Triad
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved By:
Email? [X] -Y nwolfe@triadeng.com
Fax? [ ] -Y No.:

Cooler Temp: 2 Therm ID: 1-HRC4 (Lab)
No. of Coolers:

	Y	N	Initials
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?	✓		
COC/Labels Complete/Accurate?	✓		
Cont. in Good Cond.?	✓		
Correct Containers?	✓		
Correct Sample Volumes?	✓		
Correct Preservation?	✓		
Headspace/Volatiles?			

Courier/Tracking #:

ANALYSES/METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	GRO/DRO/ORO 8015	VOCs 8260	Lead 6010B	Flash	Sample/COC Comments
			Container Type		Glass	Glass	Glass	Amber	
			Container Size		250cc	250cc	250cc	250cc	
			Preservative		-	-	-	-	
			Enter Number of Containers Per Sample or Field Results Below.						
Composite A	11/10/2014	16:14	C	SO		X	X		
Composite B	11/10/2014	15:38	C	SO		X	X		
Composite C	11/10/2014	14:45	C	SO		X	X		
TW-1	11/10/2014	16:30	G	OL				X	
Composite E	11/10/2014	11:40	C	SO		X	X		
Composite F	11/10/2014	12:00	C	SO		X	X		
Composite G	11/10/2014	12:30	C	SO		X	X		
Composite H	11/10/2014	14:30	C	SO		X	X		
TP-3	11/10/2014	14:00	C	SO	X	X			
T--4	11/10/2014	15:55	C	SO	X	X			

ALS Field Services: __Pickup __Labor __Composite Sampling __Rental Equipment __Other:

Project Comments:

LOGGED BY(signature): Date 11/11/14 Time 1131
REVIEWED BY(signature): SLD Date 11/11 Time

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Nicholas Grim	11/11/2014	9:00	2 ALS	11/11/14	9:00
3 ALS	11/11/14	1100	4	11/11/14	1131
5			6		
7			8		
9			10		

Data Deliverables: [X] Standard [ ] CLP-like [ ] USACE [ ]

Special Processing: USACE [ ] Navy [ ]

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC [X] MD

Reportable to PADEP? Yes [ ]
PWSID #

Sample Disposal: Lab [X] Special [ ]

EDDS: Format Type-

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

Rev 10/11

14

ALS Environmental

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:

ALS Quote #:

Client Name: ALS MDT
Address: 34 Dogwood Lane
Middletown PA 17057
Contact: Shannon Butler
Phone#: (717) 702-2242
Project Name/#: Triad
Bill To: ALS-MDT

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: _____ Approved By: _____
Email? [x] -Y shannon.butler@alsglobal.com
Fax? [ ] -Y No.: _____

			Container Type	C									
			Container Size	4 oz.									
			Preservative	NONE									
			ANALYSES/METHOD REQUESTED										
Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	DRO/ORO						Sub to:	ALS-Holland	
					Enter Number of Containers Per Sample or Field Results Below.								
1 2039337 009	11/10/14	1400	C	S	1								
2 2039337 010	11/10/14	1555	C	S	1								
3													
4													
5													
6													
7													
8													
9													
10													

Receipt Information (completed by Receiving Lab)

Cooler Temp: _____ Therm ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: __Pickup __Labor __Composite Sampling __Rental Equipment __Other:_____

Project Comments:

LOGGED BY(signature): DATE TIME
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1			2		
3 Taylor Ottomano ALS	11/14/14	1800	4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]

Special Processing: USACE [ ] Navy [ ]

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC [ ]

Reportable to PADEP? Yes [x]
PWSID # _____

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type- _____

* G=Grab; C=Composite **Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

Rev 10/11

FedEx. Shipment Receipt

Address Information

Ship to:	**Ship from:**
Jeff Glaser	Steve Smith
ALS - Holland	
3352 128TH AVE	34 DOGWOOD LANE
HOLLAND, MI	MIDDLETOWN, PA
494249263	17057
US	US
6163996070	7179445541

Shipment Information:
Tracking no.: 771823727055
Ship date: 11/11/2014
Estimated shipping charges: 38.48

Package Information
Pricing option: FedEx Standard Rate
Service type: Priority Overnight
Package type: Your Packaging
Number of packages: 1
Total weight: 15 LBS
Declared Value: 0.00 USD
Special Services:
Pickup/Drop-off: Drop off package at FedEx location

Billing Information:
Bill transportation to: MyAccount-686
Your reference: J. Hall
P.O. no.:
Invoice no.:
Department no.:

Thank you for shipping online with FedEx ShipManager at fedex.com.

Please Note

FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $500, e.g., jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits. Consult the applicable FedEx Service Guide for details.
The estimated shipping charge may be different than the actual charges for your shipment. Differences may occur based on actual weight, dimensions, and other factors. Consult the applicable FedEx Service Guide or the FedEx Rate Sheets for details on how shipping charges are calculated.

ALS Environmental

21-Nov-2014

Shannon Butler
ALS Environmental
34 Dogwood Lane
Middletown, PA 17057

Re: **2039337** Work Order: **1411559**

Dear Shannon,

ALS Environmental received 2 samples on 12-Nov-2014 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Electronically approved by: Bill Carey

Bill Carey
Project Manager

NELAP ACCREDITED LABORATORY

Certificate No: MN 532786

ALS Group USA, Corp

Date: 21-Nov-14

Client: ALS Environmental
Project: 2039337
Work Order: **1411559**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1411559-01	2039337 009	Soil		11/10/2014 14:00	11/12/2014 09:30	☐
1411559-02	2039337 010	Soil		11/10/2014 15:55	11/12/2014 09:30	☐

ALS Group USA, Corp

Date: 21-Nov-14

Client: ALS Environmental
Project: 2039337
WorkOrder: 1411559

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: *21-Nov-14*

Client: ALS Environmental
Project: 2039337
Sample ID: 2039337 009
Collection Date: 11/10/2014 02:00 PM

Work Order: 1411559
Lab ID: 1411559-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method:	**SW8015M**		Prep: SW3541 / 11/13/14		Analyst: **CW**
DRO (C10-C28)	ND		1.7	4.8	mg/Kg-dry	1	11/13/2014 19:35
ORO (C28-C40)	ND		1.3	4.8	mg/Kg-dry	1	11/13/2014 19:35
Surr: 4-Terphenyl-d14	*60.6*			*39-133*	*%REC*	1	11/13/2014 19:35
MOISTURE		Method:	**A2540 G**				Analyst: **EVB**
Moisture	**14**		**0.025**	**0.050**	**% of sample**	1	11/14/2014 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *21-Nov-14*

Client: ALS Environmental
Project: 2039337
Sample ID: 2039337 010
Collection Date: 11/10/2014 03:55 PM

Work Order: 1411559
Lab ID: 1411559-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015M**			Prep: SW3541 / 11/13/14		Analyst: **CW**
DRO (C10-C28)	ND		1.8	5.1	mg/Kg-dry	1	11/13/2014 18:40
ORO (C28-C40)	ND		1.4	5.1	mg/Kg-dry	1	11/13/2014 18:40
Surr: 4-Terphenyl-d14	*52.1*			*39-133*	*%REC*	1	11/13/2014 18:40
MOISTURE		Method: **A2540 G**					Analyst: **EVB**
Moisture	**18**		**0.025**	**0.050**	**% of sample**	1	11/14/2014 14:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 21-Nov-14

Client: ALS Environmental
Work Order: 1411559
Project: 2039337

QC BATCH REPORT

Batch ID: **64973** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-64973-64973** Units: **mg/Kg** Analysis Date: **11/13/2014 04:50 PM**
Client ID: Run ID: **GC8_141113B** SeqNo: **3036186** Prep Date: **11/13/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
ORO (C28-C40)	ND	5.0								
Surr: 4-Terphenyl-d14	*1.486*	0	*2*	0	*74.3*	*39-133*	0			

LCS Sample ID: **DLCSS1-64973-64973** Units: **mg/Kg** Analysis Date: **11/13/2014 05:17 PM**
Client ID: Run ID: **GC8_141113B** SeqNo: **3036187** Prep Date: **11/13/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	189.6	5.0	200	0	94.8	61-109	0			
ORO (C28-C40)	214.4	5.0	200	0	107	61-119	0			
Surr: 4-Terphenyl-d14	*1.241*	0	*2*	0	*62.1*	*39-133*	0			

MS Sample ID: **1411559-02A MS** Units: **mg/Kg** Analysis Date: **11/13/2014 05:45 PM**
Client ID: **2039337 010** Run ID: **GC8_141113B** SeqNo: **3036188** Prep Date: **11/13/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	244.6	8.0	319.6	0	76.5	48-110	0			
ORO (C28-C40)	281	8.0	319.6	0	87.9	39-140	0			
Surr: 4-Terphenyl-d14	*1.601*	0	*3.196*	0	*50.1*	*39-133*	0			

MSD Sample ID: **1411559-02A MSD** Units: **mg/Kg** Analysis Date: **11/13/2014 06:12 PM**
Client ID: **2039337 010** Run ID: **GC8_141113B** SeqNo: **3036189** Prep Date: **11/13/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	237.7	8.3	332.4	0	71.5	48-110	244.6	2.84	30	
ORO (C28-C40)	272	8.3	332.4	0	81.8	39-140	281	3.27	30	
Surr: 4-Terphenyl-d14	*1.399*	0	*3.324*	0	*42.1*	*39-133*	1.601	*13.5*	*30*	

The following samples were analyzed in this batch: 1411559-01A 1411559-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
Work Order: 1411559
Project: 2039337

QC BATCH REPORT

Batch ID: **R152639** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R152639** Units: **% of sample** Analysis Date: **11/14/2014 12:25 PM**
Client ID: Run ID: **MOIST_141114B** SeqNo: **3038670** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.050								

LCS Sample ID: **LCS-R152639** Units: **% of sample** Analysis Date: **11/14/2014 12:25 PM**
Client ID: Run ID: **MOIST_141114B** SeqNo: **3038669** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1411685-04B DUP** Units: **% of sample** Analysis Date: **11/14/2014 12:25 PM**
Client ID: Run ID: **MOIST_141114B** SeqNo: **3038664** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	75.07	0.050	0	0	0	0-0	74.61	0.615	20	

DUP Sample ID: **1411686-01A DUP** Units: **% of sample** Analysis Date: **11/14/2014 12:25 PM**
Client ID: Run ID: **MOIST_141114B** SeqNo: **3038668** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	66.61	0.050	0	0	0	0-0	68.18	2.33	20	

The following samples were analyzed in this batch: 1411559-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
Work Order: 1411559
Project: 2039337

QC BATCH REPORT

Batch ID: **R152640** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R152640** Units: **% of sample** Analysis Date: **11/14/2014 02:00 PM**
Client ID: Run ID: **MOIST_141114C** SeqNo: **3038426** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.050								

LCS Sample ID: **LCS-R152640** Units: **% of sample** Analysis Date: **11/14/2014 02:00 PM**
Client ID: Run ID: **MOIST_141114C** SeqNo: **3038425** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1411674-01A DUP** Units: **% of sample** Analysis Date: **11/14/2014 02:00 PM**
Client ID: Run ID: **MOIST_141114C** SeqNo: **3038411** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.23	0.050	0	0	0	0-0	4.07	3.86	20	

DUP Sample ID: **1411674-11A DUP** Units: **% of sample** Analysis Date: **11/14/2014 02:00 PM**
Client ID: Run ID: **MOIST_141114C** SeqNo: **3038422** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.96	0.050	0	0	0	0-0	7.49	7.34	20	

The following samples were analyzed in this batch: 1411559-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

1 of 1

COC #: 1411559

ALS Quote #:

1 of 1

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: ALS MDT
Address: 34 Dogwood Lane, Middletown PA 17057
Contact: Shannon Butler
Phone#: (717) 702-2242
Project Name/#: Triad
Bill To: ALS MDT
TAT: [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved By:
Email? [x] -Y shannon.butler@alsglobal.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	DRO/ORO						Sub to: ALS-Holland			
Container Type			C											
Container Size			4 oz											
Preservative			NONE											
1 2039337-009	11/10/14	1400	C	S	1									
2 2039337-010	11/10/14	1555	C	S	1									
3														
4														
5														
6														
7														
8														
9														
10														

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Sample or Field Results Below.

Project Comments:

LOGGED BY(signature): DATE TIME
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1			2		
3 Taylor Ottomano ALS	11/11/14	1800	4 [illegible] ALS	11/12/14	0930
5			6		
7			8		
9			10		

Receipt Information (completed by Receiving Lab)
Cooler Temp: 4.0 Therm ID:
No. of Coolers:

	Y	N	Initial
Custody Seals Present?			
(If present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: __Pickup __Labor __Composite Sampling __Rental Equipment __Other:

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC
Reportable to PADEP? Yes [x]
PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

Rev 10/11

From: (717) 944-5541
Steve Smith

34 DOGWOOD LANE

MIDDLETOWN, PA 17057

Origin ID: MDTA

FedEx Express

Ship Date: 11NOV14
ActWgt: 15.0 LB
CAD: 7121699/INET3550

Delivery Address Bar Code

Ref # J. Hall
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6870
BILL SENDER

Jeff Glaser
ALS - Holland
3352 128TH AVE

HOLLAND, MI 49424

WED - 12 NOV 10:30A
PRIORITY OVERNIGHT

TRK# 7718 2372 7055
0201

NA HLMA

49424
MI-US
GRR

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: ALS - MIDDLETOWN

Date/Time Received: 12-Nov-14 09:30

Work Order: 1411559

Received by: DS

Checklist completed by Diane Shaw (eSignature) 12-Nov-14 (Date)

Reviewed by: Bill Carey (eSignature) 12-Nov-14 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.0 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/12/2014 11:16:01 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

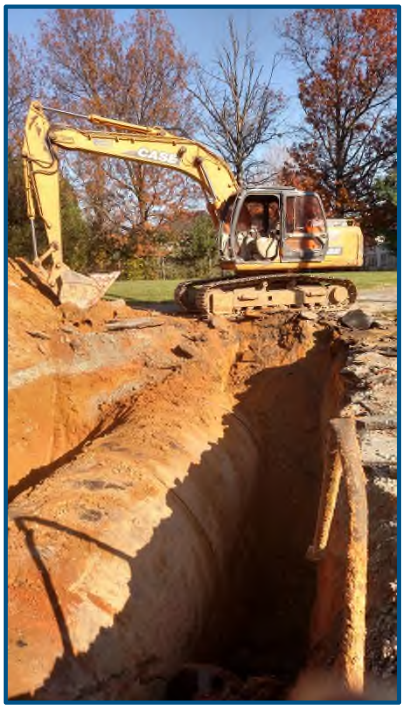
TRIAD ENGINEERING, INC.

APPENDIX 3

Photo-Documentation

Photograph # 1
View of UST test pit one (TP-1) located along the eastern side of Building E.

Photograph # 2
View of 10,000 gallon UST when first encountered in TP-1.



Photograph # 3
View of the 10,000 gallon UST being uncovered by full size excavator.

Photograph # 4
View of the 10,000 gallon UST being left in place at the end of the Hazardous Materials Survey

TRIAD ENGINEERING, INC.

APPENDIX 4

Tank Excavation Assessment Specifications

10901 DARNESTOWN ROAD TANK EXCAVATION ASSESSMENT (TEA) CLOSURE - SPECIFICATIONS

1. THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) MUST BE NOTIFIED IN ACCORDANCE WITH COMAR 26.10.10.02A BY SUBMITTING THE 30 DAY WRITTEN NOTIFICATION FORM-UST REMOVAL/ABANDONMENT (FORM NUMBER MDE/LMA/COM.039). ALL UST CLOSURE ACTIVITIES MUST BE PERFORMED UNDER THE DIRECT SUPERVISION OF A MARYLAND CERTIFIED TECHNICIAN OR REMOVER. PROPER SAFETY PROCEDURES MUST BE FOLLOWED AND SAFETY EQUIPMENT USED.

2. REMOVE ALL LIQUID/SLUDGE FROM THE UST PRIOR TO REMOVAL USING A VACUUM TRUCK OR SIMILAR EQUIPMENT AND DISPOSAL OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

3. EXCAVATE AND REMOVE THE UST AND SYSTEM COMPONENTS INCLUDING SUPPLY LINES, FILLS, AND VENTS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. DURING THE EXCAVATION OF THE SOILS SURROUNDING THE UST, THE SOILS SHALL BE SCREEN FOR VOLATILE ORGANIC COMPOUNDS (VOCS) USING A PROPERLY CALIBRATED PHOTO-IONIZATION DETECTOR (PID).

4. FOLLOWING THE REMOVAL OF THE UST, THE UST SHALL BE INSPECTED FOR CURRENT CONDITION AND DISPOSED OF AT A FACILITY APPROVED TO ACCEPT SUCH MATERIAL.

5. EXCAVATE, REMOVE AND DISPOSE OF “DEADMAN” UST COUNTER WEIGHTS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS, IF REQUIRED, BY DIRECTION OF MDE.

6. AS DIRECTED BY THE MDE, A MAXIMUM OF 4 CONFIRMATION SAMPLES SHALL BE COLLECTED APPROXIMATELY 2 FEET INTO RESIDUAL MATERIAL DIRECTLY BENEATH THE UST AND SUBMITTED FOR LABORATORY ANALYSIS TO INCLUDE FULL SUITE VOC'S USING ENVIRONMENTAL PROTECTION AGENCY (EPA) METHOD 8260 AND TOTAL PETROLEUM HYDROCARBONS-DIESEL RANGE ORGANICS (TPH-DRO) AND GASOLINE RANGE ORGANICS (TPH-GRO) USING EPA METHOD 8015. IF A CONCRETE PAD IS ENCOUNTERED, THE CONCRETE WILL NEED TO BE REMOVED TO COLLECT THE CONFIRMATION SOIL SAMPLES.

7. ANY ENCOUNTERED PETROLEUM CONTAMINATED SOIL MUST BE REMOVED FROM THE SITE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. ANY STOCKPILED CONTAMINATED SOIL MUST BE PLACED ON AND COVERED BY PLASTIC WITH A MINIMUM THICKNESS OF 5 MILLIMETERS.

8. THE EXCAVATION MUST BE BACKFILLED IN ACCORDANCE WITH THE CONTROLLED FILL SPECIFICATIONS.

9. PREPARE A TANK EXCAVATION ASSESSMENT (TEA) CLOSURE REPORT TO BE SUBMITTED TO THE MDE. THE TEA CLOSURE REPORT SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING:

    A. SUMMARY OF THE ACTIVITIES.
    B. SOIL SCREENING RESULTS.
    C. ANALYTICAL SUMMARY TABLES.
    D. LABORATORY ANALYTICAL REPORTS.
    E. WASTE MANIFESTS.
    F. PHOTO-DOCUMENTATION.
    G. SITE DIAGRAM DEPICTING THE UST LOCATION.
    H. MDE CORRESPONDENCE.
    I. UST DISPOSAL RECEIPT.

TRIAD ENGINEERING, INC.

APPENDIX 5

ALS Laboratory Report for December 22, 2014 Samples

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

December 31, 2014

Mr. Nick Wolfe
Triad Engineering
1075D Sherman Avenue
Hagerstown, MD 21740

Certificate of Analysis

Project Name:	**Projects for Nick Wolf**	Workorder:	**2046690**
Purchase Order:		Workorder ID:	**Former CPSC/03-14-0350**

Dear Mr. Wolfe:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, December 23, 2014.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2046690 Former CPSC/03-14-0350

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2046690001	Radio Tower TP	Solid	12/22/2014 10:00	12/23/2014 17:57	Collected by Client
2046690002	Octagon TP	Solid	12/22/2014 10:30	12/23/2014 17:57	Collected by Client

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit

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PROJECT SUMMARY

Workorder: 2046690 Former CPSC/03-14-0350

Sample Comments

Lab ID: 2046690001 **Sample ID:** Radio Tower TP **Sample Type:** SAMPLE

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

Lab ID: 2046690002 **Sample ID:** Octagon TP **Sample Type:** SAMPLE

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

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ANALYTICAL RESULTS

Workorder: 2046690 Former CPSC/03-14-0350

Lab ID: **2046690001** Date Collected: 12/22/2014 10:00 Matrix: Solid
Sample ID: **Radio Tower TP** Date Received: 12/23/2014 17:57

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	53.6	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Acrylonitrile	ND		ug/kg	10.7	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Benzene	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Bromodichloromethane	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Bromoform	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Bromomethane	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
2-Butanone	ND		ug/kg	10.7	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Chlorobenzene	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Chlorodibromomethane	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Chloroethane	ND		ug/kg	5.4	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
2-Chloroethylvinyl ether	ND		ug/kg	161	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Chloroform	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Chloromethane	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.3	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Ethylbenzene	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Methylene Chloride	11.9	1	ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Tetrachloroethene	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Toluene	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Trichloroethene	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Vinyl Chloride	ND		ug/kg	2.1	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	109		%	56 - 124	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
4-Bromofluorobenzene (S)	107		%	51 - 128	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Dibromofluoromethane (S)	116		%	62 - 123	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
Toluene-d8 (S)	105		%	59 - 131	SW846 8260B	12/23/14	JPA	12/27/14 01:12	JPA	A
WET CHEMISTRY										
Moisture	20.8		%	0.1	S2540G-97			12/24/14 09:21	AAP	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2046690 Former CPSC/03-14-0350

Lab ID: **2046690001** Date Collected: 12/22/2014 10:00 Matrix: Solid
Sample ID: **Radio Tower TP** Date Received: 12/23/2014 17:57

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
Total Solids	79.2		%	0.1	S2540G-97		12/24/14 09:21	AAP	A
METALS									
Lead, Total	35.8		mg/kg	1.1	SW846 6020A	12/29/14 TSS	12/30/14 12:44	MO	A2

Shannon Butler
Ms. Shannon Butler
Project Coordinator

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 2046690 Former CPSC/03-14-0350

Lab ID: **2046690002** Date Collected: 12/22/2014 10:30 Matrix: Solid

Sample ID: **Octagon TP** Date Received: 12/23/2014 17:57

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	66.2	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Acrylonitrile	ND		ug/kg	13.2	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Benzene	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Bromodichloromethane	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Bromoform	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Bromomethane	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
2-Butanone	ND		ug/kg	13.2	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Chlorobenzene	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Chlorodibromomethane	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Chloroethane	ND		ug/kg	6.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
2-Chloroethylvinyl ether	ND		ug/kg	198	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Chloroform	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Chloromethane	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	5.3	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Ethylbenzene	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Methylene Chloride	16.7	1	ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Tetrachloroethene	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Toluene	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Trichloroethene	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Vinyl Chloride	ND		ug/kg	2.6	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	107		%	56 - 124	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
4-Bromofluorobenzene (S)	103		%	51 - 128	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Dibromofluoromethane (S)	114		%	62 - 123	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
Toluene-d8 (S)	106		%	59 - 131	SW846 8260B	12/23/14	JPA	12/27/14 01:36	JPA	A
WET CHEMISTRY										
Moisture	19.8		%	0.1	S2540G-97			12/24/14 09:21	AAP	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2046690 Former CPSC/03-14-0350

Lab ID: **2046690002** Date Collected: 12/22/2014 10:30 Matrix: Solid
Sample ID: **Octagon TP** Date Received: 12/23/2014 17:57

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
Total Solids	80.2		%	0.1	S2540G-97		12/24/14 09:21	AAP	A
METALS									
Lead, Total	26.1		mg/kg	1.1	SW846 6020A	12/29/14 TSS	12/30/14 12:48	MO	A2

Shannon Butler
Ms. Shannon Butler
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2046690001	1	Radio Tower TP	SW846 8260B	Methylene Chloride
The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 134 and the control limits were 68 to 133.				
2046690002	1	Octagon TP	SW846 8260B	Methylene Chloride
The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 134 and the control limits were 68 to 133.				

ALS Environmental

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F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

2046690

Client Name: Triad Engineering
Address: 1075 D Sherman Ave, Hagerstown, Maryland 21740
Contact: Nicholas Wolfe
Phone#: 301-797-6400
Project Name/#: Former CPSC/03-14-0350
Bill To: Triad
TAT: [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved By:
Email? [X] -Y nwolfe@triadeng.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Lead 6010B	VOCs 8260	
Container Type					Glass	Glass	
Container Size					250cc	250cc	
Preservative					-	-	
Radio Tower TP	12/22/2014	10:00	C	SO	X (1)	X	
Octagon TP	12/22/2014	10:30	C	SO	X (1)	X	JLS 12/23

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)
Cooler Temp: 3.2 Therm ID: TH-291
No. of Coolers:

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?	✓		
COC/Labels Complete/Accurate?	✓		
Cont. In Good Cond.?	✓		
Correct Containers?	✓		
Correct Sample Volumes?	✓		
Correct Preservation?	✓		
Headspace/Volatiles?			

Courier/Tracking #:
Sample/COC Comments
ALS Field Services: __Pickup __Labor __Composite Sampling __Rental Equipment __Other:

Project Comments:
LOGGED BY(signature): DATE 12/23/2014
REVIEWED BY(signature): SLB DATE 12/26

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Nicholas Grim	12/22/2014	12:30	2 Pam Cuskie ACS	12-23-14	1370
3 Pam Cuskie ACS 12-23-14		1757	4 JLS	12/23/14	1554
5			6		
7			8		
9			10		

Data Deliverables: [X] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC [X] MD
Reportable to PADEP? Yes [ ]
PWSID #
Sample Disposal: Lab [X] Special [ ]
EDDS: Format Type-

* G=Grab; C=Composite **Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

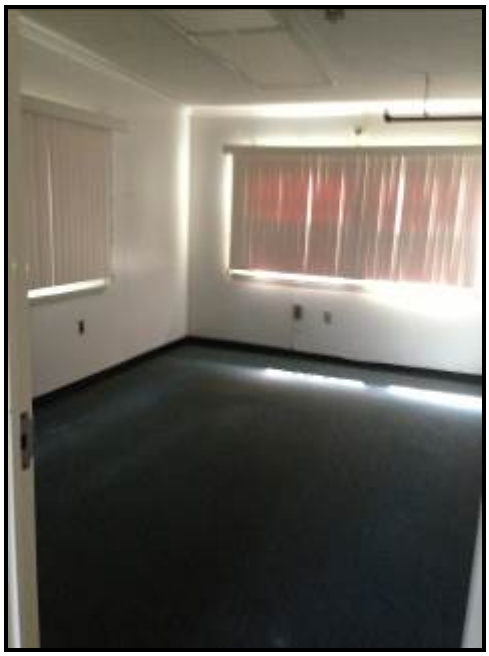
Rev 10/11

APPENDIX C

Exterior – Building A

Exterior – Building A

Interior – Building A



Interior – Building A

Interior – Building A

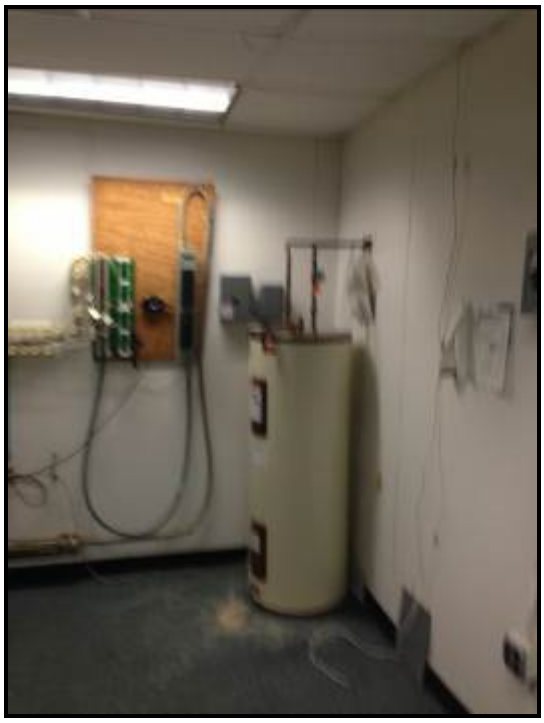
Interior – Building A

Interior – Building A

Interior – Building A

Exterior – Building B

Interior – Building B



Interior – Building B

Exterior – Building C

Interior – Building C

Interior – Building C

Exterior – Building E

Interior – Building E

EXISTING BUILDING PHOTOS – TAKEN 21 AUGUST 2014
DEMOLITION OF BUILDINGS ON FORMER CONSUMER PRODUCT SAFETY COMMISSION SITE
CITY OF GAITHERSBURG IFB 2015-016

Exterior – Building F

Interior – Building F

EXISTING BUILDING PHOTOS – TAKEN 21 AUGUST 2014
DEMOLITION OF BUILDINGS ON FORMER CONSUMER PRODUCT SAFETY COMMISSION SITE
CITY OF GAITHERSBURG IFB 2015-016

Exterior – Building G

Interior – Building G

Interior – Building G

Exterior – Building H

EXISTING BUILDING PHOTOS – TAKEN 21 AUGUST 2014
DEMOLITION OF BUILDINGS ON FORMER CONSUMER PRODUCT SAFETY COMMISSION SITE
CITY OF GAITHERSBURG IFB 2015-016

Interior – Building H

Exterior – Electrical Services Building for Building I (To Remain)

Entrance Gate and Guard Shack

Main Access Road – Looking back at Buildings F, H, and I

EXISTING CAMPUS SITE PHOTOS– TAKEN 21 AUGUST 2014
DEMOLITION OF BUILDINGS ON FORMER CONSUMER PRODUCT SAFETY COMMISSION SITE
CITY OF GAITHERSBURG IFB 2015-016

Existing Flagpole

Main Access Road – Looking out from Building A

Existing Utility Access Locations, along access road from Building A

Main Access Road – Building H on left

Utility Access Cover, along Main Access Road, near fire hydrant

Existing Light Pole – North of Building E