CHARLOTTE.

SAFE HOME
CITY OF CHARLOTTE
NEIGHBORHOOD & BUSINESS SERVICES

Invitation to Bid HNS20-1

NOTE: Contractors are not authorized to visit the property before or after the bid walk, without being accompanied by the City's Rehabilitation Specialist.

Documents included in Package:

1) Instruction to Bidders
2) Specs by Location/Trade (Scope of Work)
3) Subcontractor Certifications (if applicable)
4) Floor Plan / Site Drawing (if applicable)

Bid Walk & Bid Opening:

Project Address: **3214 Burbank Dr.**	**SAFE HOME CHARLOTTE**
Call project manager for full address	
Bid Walk: **7/25/19 at 09:00 AM**	
Bid Opening: **8/01/19 at 02:00 PM**	
Client Name: Theresa Pride	Contact Number:
Project Manager: Chuck Hitsman	Contact Number: Office -704 336 3495

Bid Walk and Bidding Instructions:

All bid walks are mandatory.

If you are going to be late the policy is the following:
Contact me BEFORE the start time if you are going to be late. If you are going to be more than 10 minutes late, we will proceed without you and you will not be permitted to bid.

The day of a bid walk the best way to reach me is at Charles Hitsman(cell # 704-622 1685).

Bids must be received by the date, time and place specified. All others will be considered non responsive and disqualified.

The Bids will be opened at 600 East Trade St. immediately following the

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NEIGHBORHOOD & BUSINESS SERVICES

above due date and time.

Company Acknowledgement:

The undersigned, having become thoroughly familiar with the terms, conditions, limitations, and provisions of the housing improvement work to be performed at 3214 Burbank Dr. to be funded through the City of Charlotte Neighborhood & Business Services, in addition, having fully inspected the site in all particulars, hereby proposes and agrees to fully perform the work within the time stated and in strict accordance with the proposed contract documents including furnishing of any and all labor and materials, and to do all work required to complete said Work in accordance with the advised respective contractual, for the sum of money:

All labor, materials, services and equipment necessary for the completion of the Work shown on the Drawings and in the Specifications:

Dollars ($)

Written total

Specs Dated: 06/28/19	Number of Pages: 9
Addenda # 1 Dated:	Number of Pages:
Addenda # 2 Dated:	Number of Pages:

Project Schedule:

Start Date –

End Date --

Please Print and Sign:

Company Name/Firm:

Authorized Representative Name:

Signature: Date:

CHARLOTTE.

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NEIGHBORHOOD & BUSINESS SERVICES

Requirements For Bidders

The City awards rehabilitation bids to the lowest responsive and responsible bidder. A responsible bidder for the safe home program is one who:

1) Is a licensed general contractor in the State of North Carolina;
2) Has an Renovate, Repair & Paint Certification (http://www2.epa.gov/lead/renovation-repair-and-painting-program);
3) Is not listed on a local, state or federal debarment list;
4) Carries an appropriate amounts of insurance;
5) Can provide references verifying the contractor has completed work of a similar scope in a good workmanship like manner or successfully completed prior work for the Safe Home program. Referenced work must have been completed in one year or less from date of this invitation to bid.

A responsive bidder must:

1) Submit all requested documentation on time;
2) Meet the above requirements for responsibility at the time of bid submittal;
3) Have the capacity to meet the required schedule for the project.
4) Existing rehab projects contracted by the contractor must be on schedule.

The City reserves the right to waive any minor informalities or irregularities, which do not go to the heart of the bid submittal or prejudice other offers, or to reject, for good and compelling reasons, any or all bid submittals.

Charles Hitsman
Rehabilitation Specialist
City of Charlotte
Neighborhood and Business Services
600 E. Trade St.
Charlotte, NC 29202
PH: (704) 336 3495
Fax: (704) 336-3489

CHARLOTTE.

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NEIGHBORHOOD & BUSINESS SERVICES

Instructions to Bidders

Explanations to Bidders

Any explanation desired by a Contractor regarding the meaning or interpretation of the advertisement for bids, drawings, specifications, etc., must be requested in writing to the Rehabilitation Specialist with sufficient time allowed for a reply to each Contractor before the submission of their bids. Any interpretation made will be in the form of an addendum to the invitation for bids, drawings, specifications, etc., and will be furnished to all prospective Contractors. The Contractor must acknowledge any revision to the bid documents in the space provided on the bid form and it must be submitted with their bid package.

Preparation of Bids

Bids shall be submitted on the forms furnished, or copies thereof, and must be manually signed. If erasures or other changes appear on the forms, the person signing the bids must initial each erasure or change

- The Contractor's Bid Proposal must be properly executed and submitted on the form provided. Bids by Contractors must be received by the Rehabilitation Specialist at the time and place specified on the "Invitation to Bid"
- No bid will be considered unless all individual work items on the Bid Form including any addendums are priced. The sum of all work items must equal to the Total Bid Amount.
- Unless called for, alternate bids will not be considered
- Modification of bids already submitted will be considered if received at the office designated in the invitation for bids by the time set for opening of bids

Submittal of Bids

- Sealed bids will be submitted to the Safe Home Program Office as directed in the invitation to bid prior to or at the appointed bid opening time
- Bid will be time stamped on the date of delivery
- Each bid must be submitted in a sealed envelope bearing on the outside the name of the Contractor, the name of the project for which the bid is submitted, and the date and time of the bid opening
- All bids submitted must be typed or written in ink and signed by the Contractor's designated representative

Work Specification

Prepared By:
City of Charlotte Housing & Neighborhood Services
600 E. Trade Street
Charlotte, NC 28202
(704) 336-7600

Property Details

Address:	3214 Burbank Dr. Charlotte, NC 28216	Owner:	Theresa Pride
		Owner Phone:	Home: (704) 621-1900
Structure Type:	Single Unit	Program(s):	Tested- NO LEAD SHFY19 Pre-Approved SH2019 Eligible
Square Feet:	999		
Year Built:	1961		
Property Value:	41900		
Tax Parcel:	06915430		
Census Tract:			
Property Zone:	Council District 2		

Repairs in Unit/Area:

Description	Floor	Room	Exterior

Tear Off & Reroof Shingles

Remove and dispose of existing roofing, inspect and repair roof deck (include 192 sq.ft. of decking replacement in bid) and install new 30 year architectural shingles. Include ice and water shield at all roof edges, felt paper, shingle over ridge vent, boots, flashing and all necessary accessories.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Seamless Aluminum Gutter & Downspouts - Install

Install K- type .027 gauge seamless aluminum gutter to service roof with sufficient pitch to downspouts. White or brown color choice by owner.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Work Specification

Exterior Deck

Remove and dispose of existing rear deck and replace with new exterior deck, including steps (36") and railings.
Duplicate size of original deck.

Bid Cost: _____X_____=_____
Base **Quantity** **Total Cost**

Demo and Rebuild Bathroom - Complete

Completely demo the existing bathroom. Remove all plumbing and electrical fixtures, doors and trim, and ceiling, wall, and floor coverings to the framing. Repair or replace all framing/ structural members as necessary to meet the requirements of the Construction Specifications and the Building Code.

Rebuild the bathroom complete with all the following features:
*floor, wall, and ceiling insulation at locations required by the Construction Specifications
*ceiling mounted fan/light vented through the roof
*switched light fixture over the vanity
*GFCI outlet per Code
*4 piece fiberglass shower surround with 4" front curb
*drywall and finish walls and ceiling
*remove any sub-flooring needed to match bath floor level to hall floor level
*30 Yr resiliant flooring over 1/4" underlayment
*prehung six panel door and hardware
*baseboard and shoe mold at standard locations
*16.5" commode
*24" vanity with cultured marble top and single handle faucet
*3 piece bath hardware set (towel bar, paper holder, and towel ring)
*vanity matching medicine cabinet over vanity
*walls, doors, trim and ceiling painted semi-gloss per Construction
*3 Handycap bars mounted on 3 walls outside of tub surround.
Specifications.

All materials and construction methods shall meet the requirements of the relevant Construction Specifications and the NC Codes.

Bid Cost: _____X_____=_____
Base **Quantity** **Total Cost**

Replumb Supply Lines

Remove ALL existing water supply lines. Install new PEX supply lines to code to service one 3-piece bath, kitchen and laundry area. Insulate exposed hot and cold water lines, installed to code. Repair any wall or ceiling tear out required to install system.

Bid Cost: _____X_____=_____
Base **Quantity** **Total Cost**

Work Specification

Prep & Paint Room Semi Gloss- Right-Rear Bedroom

Remove or cover hardware and accessories not to be painted. Scrape loose, peeling, cracked and blistered areas. Patch a/replace any decayed drywall areas needed. Clean oil, grease, fungus, dirt, and dust from surfaces. Fill holes and cracks. Prime all new materials and spot prime existing with acrylic latex. Top coat with owner's choice of low VOC acrylic SEMI-GLOSS latex. Painting shall include walls and any associated trim. Replace or uncover hardware, fixtures and accessories. Any moving of furniture required shall be included.

Bid Cost: _____ X _____ = _____

Base **Quantity** **Total Cost**

Replace Coil Metal Stock - Front

Remove & replace all fascia coil metal stock from front of dwelling. Match color.

Bid Cost: _____ X _____ = _____

Base **Quantity** **Total Cost**

Smoke Detector / Carbon Monoxide--Battery Powered

1. Install a battery powered smoke detector in each bedroom and living room.
2. Install a battery powered combination smoke detector/carbon monoxide in the hallway.

Bid Cost: _____ X _____ = _____

Base **Quantity** **Total Cost**

LED Screw Base Bulb Installation (Bulbs Only)

Replace all existing screw base (A-Type) lamps (BULBS ONLY) throughout the house with LED screw based omnidirectional (A-Type) lamps. Contractor to field verify quantity needed.

Bid Cost: _____ X _____ = _____

Base **Quantity** **Total Cost**

Power Wash Siding and Carport floor & paint.

1. Power Wash Vinyl Siding & trim. Remove stains and dirt from siding using high pressure water and detergent mix.
2. Paint all wood products in and adjacent to the carport. Match color.

Bid Cost: _____ X _____ = _____

Base **Quantity** **Total Cost**

Water Heater 40 Gallon Electric

Install a 40 gallon, glass lined, high recovery insulated to R-7, double element, electric water heater with 10 year warranty. Include pressure and temperature relief valve, expansion tank, discharge tube to within 6" of floor or to outside of structure, shut-off valve and electric supply. If it is located on an upper floor or if there is no floor drain, install a catch pan drained to the exterior. Dispose of old water heater appropriately.

Bid Cost: _____ X _____ = _____

Base **Quantity** **Total Cost**

Work Specification

Exterior Handrails - Front Porch

Remove existing handrails. Dispose of properly. Re-install handrails to current building code- specified metal or treated lumber. Size & dimensions to code. Painted to match porch iron posts.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Repair Storm Door - Front

Repair storm door per Construction Specifications.
Replace door handle and lock

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Resilient Flooring - Kitchen

Remove existing floor covering.Install 25 year warrantied vinyl resilient floor covering per manufacturer's specifications. Include transitions and painted or stained wood quarter-round at all perimeters to complete installation.
Replace any decayed subfloor, girders, bands, joists, plates or studs and insulation

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

GFCI Receptacle 20 AMP

At kitchen sink and at kitchen laundry - Install a flush mounted, ground fault circuit interrupted, duplex receptacle and cover plate. Fish wire and repair all tear out as needed.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Aluminum Storm Door with lock - Kitchen door

Install an aluminum combination storm and screen door. Complete with self closer and locking hardware.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Electric Service 200 AMP

Replace electrical service with new 200 amp, main disconnect, 110/220 volt, 24 circuit panel board, meter socket, weather head, service cable, ground rods and cable. Include replacement of all sub-panels. Caulk exterior service penetration.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Replace Kitchen Stove Receptacle

Replace kitchen stove receptacle. Use code appropriate devices. This also includes any wall or ceiling damage repairs.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Work Specification

Counter Tops Replace - Kitchen

Screw to base cabinet a square edged plastic laminate counter top. Provide end-caps and cutout for sink. Caulk counter top to adjoining walls with low VOC caulking to match wall color. Owner's choice of in-stock color and texture.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Electric Oven

Dispose of existing oven. Install a 30" electric, self cleaning, single oven with bake and pass broil elements in same cabinet. New oven is to be Energy Star rated and have a smooth cooktop (no coils). Trim/ repair/ paint any opening from oven size differential. Owner choice of black or white.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Replumb Waste Lines & Vents

Remove all drain, waste and wet vent lines to code legal dump. Install schedule 40 PVC to service one 3-piece bath, kitchen and laundry area from the roof vent pipe/pipes thru the foundation wall to include a main clean out outside of house and any interior clean outs required, installed to code. Repair any wall or ceiling tear out required to install system.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Laundry Washer Connection Box

1. Install PVC vent pipe through the roof, laundry connection box with hot and cold hose bibbs, and 20 amp outlet on a separate circuit to service a washing machine.
2. Install a shut-off valve on the refrigerator water line, located at washer-connection box for convenience.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Double Bowl Sink Complete- Kitchen

Install a 18 gauge 33" x 22" x 8" double bowl, stainless steel, self rimming kitchen sink including a single handle metal body faucet, rated at 2.0 GPM or less, with a 15 year drip- free warranty, P-trap, supply lines, full port ball type shut-off valves & escutcheon plates on all supply & drain lines. No copper compression fittings.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Work Specification

Front / kitchen and Utility Door

Front and kitchen door to have a fan-light.
Front door and kitchen door to have a peep-hole custom to owners height.
Kitchen door to have (two) dead-bolts plus the traditional lock-set.
All door kits to be painted white.
Re-install owners front-door storm door onto new door framing.Remove existing door, frame and threshold. Install new Energy Star rated pre-hung exterior door. Insulate cavity. Install mortised dead bolt and lever handled door hardware keyed alike. Install wide peep sight. New casing and shoe molding will match existing. Apply primer and topcoat. This installation to include repairing any damaged header, door framing, to include wall framing, sub-floor, floor joists and sill.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Asbestos Abatement Scope

See attached scope. An allowance to complete the scope of work attached.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

All Contractor's Project Requirements

The contractor is responsible for:

Obtaining all permits required. Said permits shall include all items in this scope of work.

Provide temporary toilet facilities from job start until the completion of work.

Provide AS MANY roll-off dumpsters as needed without damaging the site. Collect construction debris using dust control methods. Remove dumpster and repair any evidence of the dumpsters use. Contractor may haul debris away daily using dump trailers.

Bid Cost: _____ X _____ = _____
Base **Quantity** **Total Cost**

Certification

Contractor Name: _____ **Total Cost:** _____

Signature: _____ **Date:** _____

ASBESTOS Scope
& INSTRUCTIONS TO BIDDERS
Address 3214 Burbank Dr.
Complete the following scope of work:

Item #	Feature	Method	Number	Cost P	COST
1	Joint Compound - throughout (-1,000 ft2)	Remove before renovation / demolition of Scope items			
2	Asbestos Clearance	Use The EI Group, Inc			
3					
4					
5					
6					
7					
8					
9					
10					
11			Total		
12					
13					
14					
15					
16					
17					
18					
19					
20					

Contractors may submit an occupant protection plan on the form provided.
1 Contact The EI Group to conduct inspections prior to repainting or other putback and Complete all interior work in a unit in a single day.
2 Allow for replacement of 50 board feet of rotted wood.
3 Unless otherwise noted any window or door removal and replacement
4 includes frame and trim on both sides.
In lieu of complete removal, window frames may be enclosed with vinyl on
5 exterior in accordance with all project manual requirements
6 Contact Jim Roy to conduct inspections prior to repainting or other putback and after vinyl siding installation.
Windows being placed in a bathroom need to be tempered glass.

Total Bid
Acknowledgement of Addenda (if any):

Addendum#		
		Date

The undersigned contractor agrees to perform the scope of work for the indicated fee in accordance with applicable regulations and the project manual. The undersigned also certifies that the work will be completed within 60 days of award.

Signature of authorized contractor representative

Contractor Submitting Bid:
Address:
Start date : Completion date :

Phone:

Environmental, Health and Safety Solutions.™

Limited Asbestos Survey

Residence
3214 Burbank Dr.
Charlotte, North Carolina

Prepared For:

Mrs. Diane Adams
Housing Services Supervisor
Housing & Neighborhood Services
City of Charlotte
600 East Trade Street
Charlotte, NC 28202

Prepared By:

The EI Group Inc.
201 McCullough Drive
Suite 150
Charlotte, NC 28262

www.ei1.com

Report Date: April 12, 2019

Lars Aamoth
Charlotte Operations Manager
NC Asbestos Inspector No. 12599

Project Information

A pre-renovation asbestos inspection was conducted for limited materials for the residence slated for renovation located 3214 Burbank Drive in Charlotte, North Carolina. Mr. Lars Aamoth, EI Industrial Hygienist, performed the survey on April 2, 2019 to collect bulk samples of building materials that may be disturbed during upcoming renovation activities.

The survey consisted of evaluating the residence for the presence of suspect materials, which may contain asbestos. The survey involved detecting both friable materials (materials which can be pulverized or reduced to a powder by hand pressure when dry) and non-friable materials (materials which pose a hazard when sawn, sanded, drilled or pulverized). Homogeneous materials (based on material type, color, texture, etc.) were identified in various functional spaces (living and dining rooms, bathrooms, foyers, etc.) during the survey. In order to determine if the suspect materials observed during the visual survey contained asbestos, representative bulk samples were collected and placed in sealed packages and under chain of custody. Sampling was performed to National Emission Standard for Hazardous Air Pollutants (NESHAP) protocols. Samples were collected during the survey conducted on April 2, 2019 and were submitted to EMSL located in Charlotte, North Carolina for analysis using the EPA recommended method of Polarized Light Microscopy (PLM) coupled with dispersion staining (Method No. EPA 600/M4-020-82, Dec. 1982). EMSL participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Their NVLAP accreditation number is 102104-0. The material type, sample location and analytical results of each bulk sample are summarized in the attached Asbestos Bulk Analysis Sheets.

Only samples of the kitchen floor covering (down to plywood), bathroom floor covering, and bathroom drywall and joint compound were collected as requested by The City of Charlotte. If additional suspect materials are discovered during renovation activities, additional testing will be required. The scope of the survey did not address potential underground structures (piping systems, etc.) that may be associated with the building.

Asbestos Containing Materials

The EPA defines an asbestos-containing material (ACM) as a material containing more than one percent asbestos The EPA defines an asbestos-containing material (ACM) as a material containing more than one percent asbestos. Laboratory analysis indicated that Sample No. 07 & 09 (Joint Compound) collected from the subject building were found to contain more than one percent asbestos and are considered to be asbestos-containing materials in accordance with the EPA criterion. These materials were observed to be nonfriable materials (not able to be crushed or pulverized under hand pressure) in relatively good condition, exhibiting little damage. These asbestos-containing materials are classified as OSHA Class II material and will require removal by a licensed asbestos contractor prior to disturbance from renovation or demolition activities.

Sample information, locations, and results of asbestos-containing materials are included in the

following Table 1.

TABLE 1 Asbestos Containing Materials Identified 04/02/2019 3214 Burbank Drive Charlotte, North Carolina						
Asbestos Material	**Approximate Location (Quantity)**	**Sample Numbers**	**Percent Asbestos**	**Friability (F/NF)**	**Condition**	**Recommendations**
Joint Compound	Throughout (~1,000 ft^2)	07 09	2% Chrysotile	NF	Fair	Remove Before Renovation / Demolition

Notes: F= Friable, NF= Non-Friable, LF=Linear Feet, ft^2=Square Feet

Non-Asbestos Materials

Laboratory results of the bulk samples collected as part of this investigation indicate that the following materials do **not** contain detectable levels of asbestos:

- Kitchen Flooring (Down to Plywood)
- Bathroom Flooring

Recommendations and Discussion

It should be noted that this investigation included limited sampling of suspect materials in the residence located at 3214 Burbank Drive Charlotte, NC as marked by City of Charlotte personnel. No investigation was performed for any other areas other than the stated areas above. If suspect asbestos-containing materials not covered by this investigation are anticipated for disturbance, those materials should be treated as asbestos until further testing and analysis deems the material otherwise.

EI recommends that the identified ACMs should be removed before conducting any renovation or demolition activities which may disturb these materials. Removal should be in accordance with EPA, State of North Carolina, OSHA and Mecklenburg County asbestos regulations. The State of North Carolina, Health Hazards Control Unit (HHCU) has specific regulations that must be adhered to during asbestos removal/abatement projects. No recommendations are made for any of the other materials sampled as part of this investigation. If additional areas that were not part of the original scope of renovation as determined by The City of Charlotte are to be impacted, or if additional materials are uncovered during demolition activities, additional testing will need to be conducted.

Qualifications

The EI Group, Inc. 201 McCullough Drive, Suite 150 Charlotte, NC 28262 • Tel: (704) 593-1640 • Fax: (704) 593-1650
www.ei1.com

Our report is intended for the exclusive use of The City of Charlotte. Third party use of this report should only be performed with the expressed, written consent of the City of Charlotte. Our report is specific for the conditions of the dates and times of our on-site visits and should not be interpreted without first consulting EI.

The findings prepared by EI are based upon testing performed in the referenced building. Additional ACM may exist (undetected) in other areas due to their inaccessibility. Our recommendations are based on the guidelines presented in EPA, State of North Carolina or OSHA asbestos regulations.

EI appreciates the opportunity to provide our industrial hygiene services for this project. If you have questions or need additional information, please contact us at (704) 593-1640.

Respectfully,

The EI Group, Inc.

Lars Aamoth
Manager, Charlotte Operations

Attachments:

- PLM Laboratory Report

The EI Group, Inc. 201 McCullough Drive, Suite 150 Charlotte, NC 28262 • Tel: (704) 593-1640 • Fax: (704) 593-1650
www.ei1.com

APPENDIX
Laboratory Report

The EI Group, Inc. 201 McCullough Drive, Suite 150 Charlotte, NC 28262 • Tel: (704) 593-1640 • Fax: (704) 593-1650
www.ei1.com

EMSL Analytical, Inc.
10801 Southern Loop Blvd Pineville, NC 28134
Tel/Fax: (704) 525-2205 / (704) 525-2382
http://www.EMSL.com / charlottelab@emsl.com

EMSL Order: 411903017
Customer ID: ENVI44
Customer PO:
Project ID:

Attention: Lars Aamoth
The EI Group, Inc.
201 McCullough Drive
Suite 150
Charlotte, NC 28262
Project: 3214 Burbank Drive ASB

Phone: (704) 593-1640
Fax: (704) 593-1650
Received Date: 04/03/2019 9:50 AM
Analysis Date: 04/03/2019
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
01-Flooring *411903017-0001*	Kitchen - Flooring	Tan Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
01-Mastic *411903017-0001A*	Kitchen - Flooring	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
02-Flooring *411903017-0002*	Kitchen - Flooring	Tan Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
02-Mastic *411903017-0002A*	Kitchen - Flooring	Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
03-Flooring *411903017-0003*	Kitchen - Flooring	Brown Fibrous Homogeneous	15% Cellulose 1% Glass	84% Non-fibrous (Other)	None Detected
03-Mastic *411903017-0003A*	Kitchen - Flooring	Tan Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
04-Flooring *411903017-0004*	Bathroom - Flooring	Tan/White Fibrous Homogeneous	15% Cellulose	20% Ca Carbonate 65% Non-fibrous (Other)	None Detected
04-Mastic *411903017-0004A*	Bathroom - Flooring	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
05-Flooring *411903017-0005*	Bathroom - Flooring	Tan/White Non-Fibrous Homogeneous	15% Cellulose	10% Ca Carbonate 75% Non-fibrous (Other)	None Detected
05-Mastic *411903017-0005A*	Bathroom - Flooring	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
06-Flooring *411903017-0006*	Bathroom - Flooring	Tan/White Non-Fibrous Homogeneous	1% Cellulose	10% Ca Carbonate 89% Non-fibrous (Other)	None Detected
06-Mastic *411903017-0006A*	Bathroom - Flooring	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
07-Drywall *411903017-0007*	Bathroom - Drywall & Joint Compound	Gray Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
07-Joint Compound *411903017-0007A*	Bathroom - Drywall & Joint Compound	Beige Non-Fibrous Homogeneous		30% Ca Carbonate 68% Non-fibrous (Other)	2% Chrysotile
08-Drywall *411903017-0008* *No joint compound present*	Bathroom - Drywall & Joint Compound	Gray Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
09-Drywall *411903017-0009*	Bathroom - Drywall & Joint Compound	Brown/Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected

Initial report from: 04/03/2019 13:30:31

EMSL Analytical, Inc.
10801 Southern Loop Blvd Pineville, NC 28134
Tel/Fax: (704) 525-2205 / (704) 525-2382
http://www.EMSL.com / charlottelab@emsl.com

EMSL Order: 411903017
Customer ID: ENVI44
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
09-Joint Compound *411903017-0009A*	Bathroom - Drywall & Joint Compound	Tan/White Non-Fibrous Homogeneous		35% Ca Carbonate 63% Non-fibrous (Other)	2% Chrysotile

Analyst(s)
Anupriya Tyagi (11)
Sarah Breneman (6)

Lee Plumley, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 04/03/2019 13:30:31

OrderID: 411903017

EMSL ANALYTICAL, INC.
LABORATORY · PRODUCTS · TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*: 41190 3017

10801 Southern Loop Blvd
Pineville, NC 28134
PHONE: (704) 525-2205
FAX: (704) 525-2382

Company: EI	EMSL-Bill to: ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 201 McCullough Drive Suite 150	
City: Charlotte / State/Province: NC	Zip/Postal Code: 28262 / Country: US
Report To (Name): Lars Aamoth	Telephone #: 8644235991
Email Address: laamoth@ei1.com	Fax #: / Purchase Order:
Project Name/Number: 3214 Burbank Drive ASB	Please Provide Results: ☐ Fax ☑ Email ☐ Mail
U.S. State Samples Taken: NC	CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☑ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PLM - Bulk (reporting limit)	TEM – Bulk
☐ PLM EPA 600/R-93/116 (<1%)	☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
☐ PLM EPA NOB (<1%)	☐ NY ELAP Method 198.4 (TEM)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
☐ NIOSH 9002 (<1%)	☐ TEM Qualitative via Filtration Prep Technique
☐ NY ELAP Method 198.1 (friable in NY)	☐ TEM Qualitative via Drop Mount Prep Technique
☐ NY ELAP Method 198.6 NOB (non-friable-NY)	**Other**
☐ OSHA ID-191 Modified	☐
☐ Standard Addition Method	

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** | **Date Sampled:**

Samplers Name: | **Samplers Signature:**

Sample #	HA #	Sample Location	Material Description
01	1		Kitchen Flooring
02	↓		↓
03	↓		↓
04	2		Bathroom Flooring
05	↓		↓
06	↓		↓
07	3		Bathroom Drwyall & Joint Compound
08			↓
09			↓

Client Sample # (s): 01 - 09 **Total # of Samples:** 9

Relinquished (Client): [signature] **Date:** 4/2/19 **Time:**

Received (Lab): [signature] **Date:** 4/3/19 **Time:** 9:50 AM UPS

Comments/Special Instructions: 1Z6W9 844 07 9960 1812