

September 26, 2007

Ms. Jennifer McMorran
American Tower Corporation
950 West Elliot Road, Suite 110
Tempe, Arizona 85284

Re: **89447 / Searchlight**
12.5 Miles West of Searchlight
Searchlight, Nevada 89046
EBI Project #61073335

Dear Ms. McMorran:

As requested by *American Tower Corporation*, EBI Consulting (EBI) performed limited sampling of suspect asbestos containing materials (ACM), lead-containing paint (LCP) and a visual mold inspection at 89447 / Searchlight (the Subject Property).

Background

The Subject Property is developed with an existing telecommunications tower facility, which consists of an existing 118-foot and 40-foot self-supporting telecommunications towers and an one-story equipment building that was observed to be constructed of concrete with an approximate footprint on 29-feet by 29-feet. The original date of construction of the facility is unknown. EBI was provided access to the Subject Property by Mr. Chris Butler, the American Tower Corporation representative for the Subject Property.

Scope of Work

An Asbestos Containing Material Survey, Lead Containing Paint Survey and Visual Mold Inspection of the Subject Building were performed on September 10, 2007 by Mr. Eric Lyding, a Nevada Certified AHERA Asbestos Abatement Consultant and EPA Certified Lead Paint Risk Assessor/Inspector. The inspection was limited to the portions of the interior, exterior, and rooftop of the concrete equipment shelter, which is reportedly owned by *American Tower Corporation* for the use of telecommunications support equipment. Areas sampled for asbestos and lead based paint during the survey included the roof, interior walls and interior structural materials.

The survey involved locating, and assessing the condition of all accessible suspect asbestos containing materials and lead containing paint, using sampling and visual inspection techniques, to develop a report which identifies the extent of the materials present within the equipment shelter.

Asbestos-Containing Materials (ACM)

EBI was unable to determine the exact construction date of the Subject Property equipment shelter. Asbestos may be present on the interior and exterior of the building. The building was evaluated for the presence of building materials suspected of containing asbestos. The following

is a listing of all suspect asbestos-containing materials bulk sampled by EBI associated with the telecommunications equipment shelter:

- Vinyl floor tile and associated mastic
- Roof materials

During the inspection, suspect ACM were noted in the following areas: interior floors, and rooftop.

Asbestos-containing materials are generally classified as friable or non-friable. Friable materials are those which can be crumbled, pulverized or reduced to powder by hand pressure or by normal use, or maintenance emits or can be expected to emit asbestos into the air. Representative samples of the suspect ACM were collected at the time of the inspection and were submitted to Environmental Hazards Services, L.L.C., a laboratory state-licensed and accredited for analysis of asbestos and lead content, located in Richmond, Virginia.

The bulk samples of suspect materials were analyzed using the approved polarized light microscopy with dispersion staining (PLM/DS) method. By using the PLM/DS method, a trained microscopist is able to identify and distinguish between asbestos group minerals and other fibrous materials such as cellulose (paper), mineral (rock), wood, or glass fiber. The quantity of each of these substances is estimated on a weight basis and recorded as a percent. Only the asbestos content, if any, is recorded in the bulk sample Report of Analysis. If a material contains greater than 1% asbestos, it is considered to be an asbestos-containing material by EPA standards.

Sample	Suspect Material	Location	Color	Condition / Friability	Result (% Asbestos) / Quantity
3335 #1A	Vinyl Tile	Western floor	Grey	Fair / Non-Friable	NAD / 800 sf
3335 #1B	Mastic beneath Vinyl Tile	Western floor	Black	Good / Non-Friable	5% Chrysotile / Quantity Included Above
3335 #2A	Vinyl Tile	Northeastern floor	Grey	Fair / Non-Friable	NAD / 800 Quantity Included Above
3335 #2B	Mastic beneath Vinyl Tile	Northeastern floor	Black	Good / Non-Friable	5% Chrysotile / Quantity Included Above
3335 #3A	Vinyl Tile	Southern floor	Grey	Fair / Non-Friable	NAD / Quantity Included Above
3335 #3B	Mastic beneath Vinyl Tile	Southern floor	Black	Good / Non-Friable	5% Chrysotile / Quantity Included Above
3335 #8	Roofing Material	Southwestern roof	Black / Brown	Poor / Non-Friable	NAD / 900 sf
3335 #9	Roofing Material	Central roof	Black	Poor / Non-Friable	NAD / Quantity Included Above
3335 #10	Roofing Material	Northwestern roof	Black / Brown	Poor / Non-Friable	NAD / Quantity Included Above

NAD- No Asbestos Detected

N/A- Sample was not analyzed since lab analyzed to first positive only for each type of suspect ACM

sf- Square feet

* If any asbestos containing material were detected below one percent, the result would be listed as "trace"

Asbestos was detected in three of the nine samples collected by EBI. Photographs of the sampling locations can be found in **Attachment A**. Laboratory results and Chain of Custody can be found in **Attachment B**. A Sample Location Map, identifying the locations discussed above, is located in **Attachment E**.

Lead-Containing Paint (LCP)

EBI was unable to determine the exact construction date of the Subject Property equipment building. Lead painted surfaces may be present on the interior and exterior of the building.

Painted surfaces were noted in the areas occupied by *American Tower Corporation*. Painted areas inspected and sampled included the various paints on the interior and exterior of the Subject Building. The representative paint chip samples collected were subsequently analyzed by Environmental Hazards Services, L.L.C. using EPA Method SW846 7420. The suspect LCP that was collected during the inspection performed by EBI is presented in the table below:

Sample	Suspect Material	Location and Substrate	Condition	Concentration (ppm)
3335 #4	Light Brown Paint	Western Interior wall	Good	1,100
3335 #5	Light Brown Paint	Southern Interior wall	Good	1,300
3335 #7	Light Brown Paint	Northeastern Interior wall	Good	1,200

ppm – parts per million

The United States Environmental Protection Agency (USEPA) definition of lead-based paint is greater than or equal to 0.5% (5,000 ppm) lead. The laboratory results indicated that none of the painted surfaces sampled are considered lead-based paint by the USEPA definition. Paint with any detectable lead is regulated by OSHA as a lead-containing paint. The laboratory results indicate that all of the painted surfaces samples contained a detectable concentration of lead. As such, these samples are regulated by OSHA as lead-containing paint. Laboratory results and Chain of Custody can be found in **Attachment C**.

Visual Mold Inspection

Interior areas of the existing equipment shelter to which access was provided and in which building elements were readily observable were inspected for the presence of moisture and visible or olfactory evidence of microbial development. No disassembly of systems or building components or physical or invasive testing was performed. No observations were conducted within concealed locations (construction elements behind wall and ceiling finishes, and other building components, etc.). The scope of this inspection was limited to visual observations of accessible areas for microbial growth and water damaged materials and did not include the collection and laboratory analysis of bulk samples or air samples to confirm the presence of microbial elements.

Representative observations revealed obvious visual (no olfactory) indications of the presence of inactive moisture in the form of water stains and peeling interior paint in the southwest portion

of the Subject Property building. Based on the conditions as observed at the time of the inspection, mold does appear to be a concern at the Subject Property.

Conclusions and Recommendations

According to Environmental Hazards Services L.L.C., the roofing materials and the vinyl floor tile do not contain asbestos (see Attachment B). However, the black mastic beneath the floor tile in the interior of the building contains 5% Chrysotile. In the event that future construction activities are likely to disturb the identified ACM, these materials should be removed by a licensed asbestos contractor and disposed of appropriately in accordance with local and state regulations.

According to Environmental Hazards Services, L.L.C., the various paints on the interior and exterior of the Subject Building were determined to contain lead. As such, these paints are regulated by OSHA as lead-containing paints. If *American Tower Corporation* does not intend to disturb the paints during future activities, no further inquiry is warranted at this time. However, if *American Tower Corporation* intends to disrupt the paints by sanding, welding, scraping, removal, grinding or by similar action create fine mists, fumes, or fine particulate aerosols, the proposed construction plans should be reviewed by a qualified individual to evaluate compliance to OSHA Lead in Construction Standard: 29 CFR 1926.62 for Lead, state, and local regulations.

EBI recommends that all water or mold impacted materials that may be impacted during future construction/installation activities be removed and replaced by a licensed contractor.

Limitations

This Report presents the findings of a limited investigation but does not constitute a complete determination of whether past or present owners or occupants of the Subject Property have been in compliance with all applicable local, state, and federal environmental regulations. The information contained herein is based on on-site observations and on a limited investigation involving site observations only. The investigative methods applied to this assessment are consistent with current industry standards for the performance of investigation within the limits of the scope of work, budget, and schedule. It should be noted that no conclusions can be drawn regarding the existence of conditions that were not addressed by the scope of work.

This assessment and Report were prepared by EBI solely for the use of *American Tower Corporation*. Third party use of this Report is prohibited without the prior written consent of EBI and use thereof is at the risk of the user. The observations and results presented in this Report are believed to be representative of site conditions prevailing at the time of the assessment in the areas explored. Changes in site conditions or in the availability of information regarding past or current site conditions should be brought to EBI's attention so that they can be addressed and EBI's conclusions verified or modified as appropriate.

It has been a pleasure to prepare this *Report*. Please call me at (602) 279-7480 if you have any questions, comments, or if I can be of further assistance in any way.

Respectfully Submitted,



Mr. Eric Lyding, AAC
Author / Project Scientist
AAC # I-1327
Exp. March 23, 2008



Ms. Marianne Holleman, AAC
Reviewer / Program Manager
AAC # IJPM-0416
Exp. February 12, 2008

- Attachment A: Photographs
- Attachment B: Asbestos Laboratory Results and Chain of Custody
- Attachment C: Lead Paint Laboratory Results and Chain of Custody
- Attachment D: Lease Exhibits
- Attachment E: Sample Location Map
- Attachment F: Certifications

NOT FOR BLD

ATTACHMENT A
PHOTOGRAPHS

NOT FOR BID



1. American Tower Corporation site and equipment building.



2. View of the interior of the Subject Property building from the entrance.

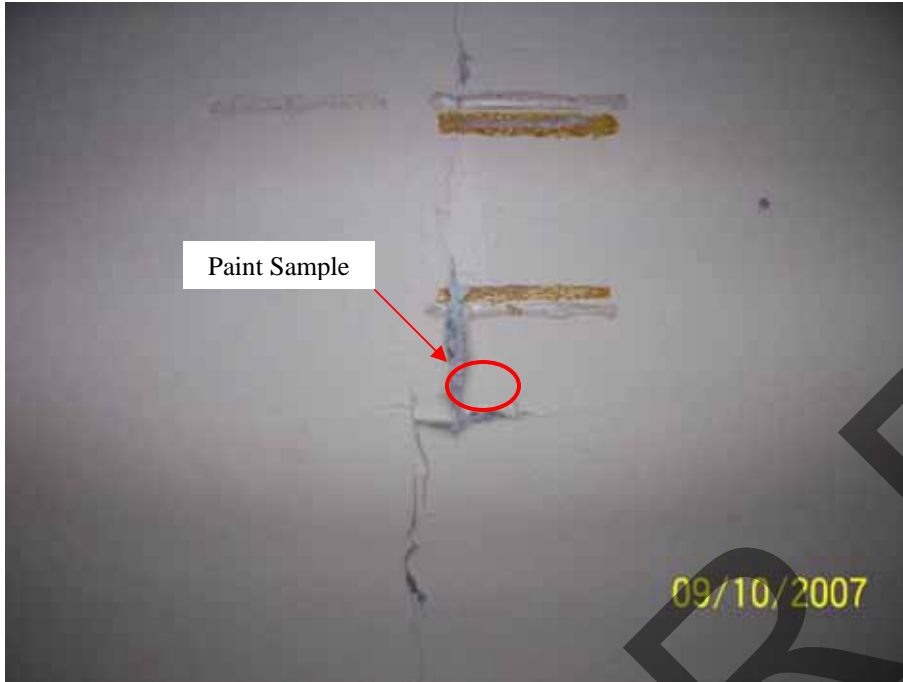


3. View of the interior of the Subject Property building from the northeast corner.



4. Water stained floor tile in the southwest portion of the Subject Property building.

NOT FOR BLD

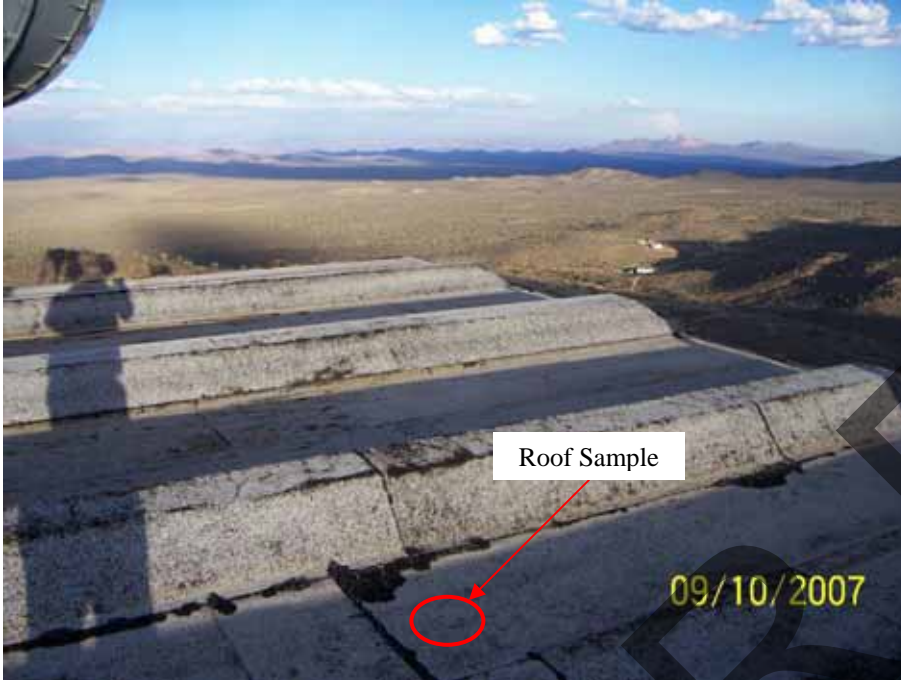


5. Peeling paint along the western interior wall.



6. View of the damaged roof in the southwest portion of the Subject Property building roof.

NOT FOR BLD



7. View of the Subject Property building roof.



8. Asbestos sign on the Subject Property building.

ATTACHMENT B
ASBESTOS LABORATORY RESULTS AND CHAIN OF CUSTODY

NOT FOR BID

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237

804-275-4788 FAX 804-275-4907

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: EnviroBusiness, Inc.
21 B Street
Burlington, MA 01803-3485

DATE OF RECEIPT: 12 Sep 2007
DATE OF ANALYSIS: 14 Sep 2007
DATE OF REPORT: 15 Sep 2007

CLIENT NUMBER: 22-4564 SA
EHS PROJECT #: 2007-09-1029
PROJECT: 61073335

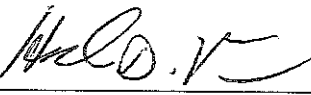
<u>EHS SAMPLE #</u>	<u>CLIENT SAMPLE # LABORATORY GROSS DESCRIPTION</u>	<u>% ASBESTOS</u>	<u>OTHER MATERIALS</u>
01A	3335#1/ Gray Vinyl	NAD	100% Non-Fibrous
01B	3335#1(b)-Mastic/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	95% Non-Fibrous
02A	3335#2(a)-Tile/ Gray Vinyl	NAD	1% Cellulose 99% Non-Fibrous
02B	3335#2(b)-Mastic/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	95% Non-Fibrous
03A	3335#3(a)-Tile/ Gray Vinyl	NAD	1% Cellulose 99% Non-Fibrous
03B	3335#3(b)-Mastic/ Black Tar-Like	5% Chrysotile 5% Total Asbestos	95% Non-Fibrous
04	3335#8/ Black Tar-Like; Brown Fib.	NAD	35% Cellulose 10% Fibrous Glass 15% Synthetic 40% Non-Fibrous
05	3335#9/ Black Tar-Like	NAD	20% Fibrous Glass 25% Synthetic 55% Non-Fibrous
06	3335#10/ Black Tar-Like; Brown Fib.	NAD	35% Cellulose 5% Fibrous Glass 20% Synthetic 40% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 22-4564 SA
EHS PROJECT #: 2007-09-1029
PROJECT: 61073335

QC SAMPLE: NY-33-2392
QC BLANK: SRM 1866 Fiberglass
REPORTING LIMIT: 1% Asbestos
METHOD: Polarized Light Microscopy, EPA Method 600/R-93/116 *
ANALYST: Vickie Holmes

Reviewed By Authorized Signatory:


Michael A. Mueller, MPH, Laboratory Director
Howard Varner, General Manager
Irma Faszewski, Quality Assurance Coordinator

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND NAD = no asbestos detected
SCF = suspected ceramic fibers

p1m1.dot/07MAR2006/REV2/ MR

-- PAGE 02 of 02 -- END OF REPORT --

Bplm

EHS 2007-09-1029

CHAIN OF CUSTODY FORM

ENVIRONMENTAL HAZARDS SERVICES, L.L.C. Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

Company Name: EBI Consulting
 Address: 28 B Street
 City, State, Zip: Burlington, MA 01803
 EHS Client Acct #: 22-4564 A
 Subject Property Address: 89447 Searchlight
 12.5 Miles West of Searchlight, Searchlight, NV 89046
 Date: September 11, 2007
 Contact Name: Eric Lyding
 Sampler Name: Eric Lyding
 EBI Project #: 61073335
 Sampler's Phone #: 602-279-7480
 Sampler's Fax #: 602-279-7481

Email all sampling results to elyding@ebiconsulting.com and mcunneen@ebiconsulting.com. Sampling results no longer need to be faxed.

 Please email results to mcunneen@ebiconsulting.com *****

Sample Numbers for 9/16/07

Sample Number *	Sample Date & Time *	Asbestos					Lead					Other (Specify Below)		Comments * (color/ type of material/ condition)				
		Bulk ID by PLM	(PCM) Fiber Count	PLM Point Count	PLM Gravimetric	TEM AHERA (Air)	TEM Chatfield (Bulk)	Air	Paint (%)	Paint (PPM)	Paint (mg/cm2)	Soil	Wipe		TCLP (Pb)	Waste Water	T.A.T. RUSH	T.A.T. 5-7 day
3335 #1	9/10/2007 17:56	X						X								X		Gray/Floor Tile/Good
3336 #2	9/10/2007 17:59	X						X								X		Gray/Floor Tile/Good
3337 #3	9/10/2007 18:01	X						X								X		Gray/Floor Tile/Good
3338 #4	9/10/2007 18:02							X								X		Light Brown/Interior Paint/Good
3339 #5	9/10/2007 18:03							X								X		Light Brown/Interior Paint/Good
3340 #7	9/10/2007 18:07							X								X		Light Brown/Interior Paint/Good
3341 #8	9/10/2007 18:15	X														X		Roofing Material/Fair
3342 #9	9/10/2007 18:18	X														X		Roofing Material/Fair
3343 #10	9/10/2007 18:23	X														X		Roofing Material/Fair

Released by: Eric Lyding
 Received by: DHL-Overnight
 Signature: *[Signature]*
 Signature: *[Signature]*
 Date/Time: 9/11/07 10:50 AM
 Date/Time: 9/11/07 2:00 PM
 Released by: *[Signature]*
 Signature: *[Signature]*
 Date/Time: 9.12.07 @ 12:00

**ATTACHMENT C
LEAD PAINT LABORATORY RESULTS AND CHAIN OF CUSTODY**

NOT FOR BID

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237

804-275-4788 FAX 804-275-4907

LEAD IN PAINT ANALYSIS SUMMARY

CLIENT: EnviroBusiness, Inc.
21 B Street
Burlington, MA 01803-3485

DATE OF SAMPLING: 10 Sep 2007
DATE OF RECEIPT: 12 Sep 2007
DATE OF ANALYSIS: 12 Sep 2007
DATE OF REPORT: 13 Sep 2007

CLIENT NUMBER: 22-4564 SA
EHS PROJECT #: 2007-09-1028
PROJECT: 61073335

EHS SAMPLE#	CLIENT SAMPLE#	SAMPLE WEIGHT (g)	CONCENTRATION PPM (mg/kg)
01	3338#4	0.208	1100
02	3339#5	0.237	1300
03	3340#7	0.292	1200

QUALITY CONTROL DATA


BATCH#: 091207P-1
INCLUSIVE EHS SAMPLE NUMBERS:
Initial Calibration Verification (5.00ppm Pb) 102% Recovery
Continuing Calibration Verification 10 (10.0ppm Pb) 101% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb) 102% Recovery
Laboratory Control Standard 100% Recovery
Matrix Spike 98.0% Recovery
Duplicate Relative Percent Difference 0.00 RPD
Reporting Limit 20ug
Method Detection Limit 1.3ug

BATCH#: 091207P-2
INCLUSIVE EHS SAMPLE NUMBERS:
Continuing Calibration Verification 10 (10.0ppm Pb) 98.7% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb) 100% Recovery
Laboratory Control Standard 106% Recovery
Matrix Spike 94.8% Recovery
Duplicate Relative Percent Difference 4.83 RPD
Reporting Limit 20ug
Method Detection Limit 1.3ug

PREPARATION METHOD: EPA 600/R-93/200
ANALYSIS METHOD: EPA SW846 7420

ANALYST: Aubrey Simonds

Reviewed By Authorized Signatory:


Michael A. Mueller, MPH, Laboratory Director
Howard Varner, General Manager
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 22-4564 SA
EHS PROJECT #: 2007-09-1028
PROJECT: 61073335

This method has been validated for sample weights of 0.020g or greater. When samples with a weight of less than that are analyzed those results fall outside of the scope of accreditations.

Sample results denoted with a "less than" (<) sign contain less than 20ug total lead, based on a 40ml sample volume.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714

LEGEND	g = gram	ug = microgram	ppm = parts per million
	ml = milliliter	Pb = lead	mg/kg = milligrams per kilogram

painpb29.AA220.dot/06FEB2006/REV2/MR/

-- PAGE 02 of 02 -- END OF REPORT --

NOT FOR BIDD

3 pb paint

Handwritten initials

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
 Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907
CHAIN OF CUSTODY FORM

EHS 2007-09-1028

Company Name: EBI Consulting
Address: 28 B Street
 Burlington, MA 01803
City, State, Zip:
EHS Client Acct #: 22-4564 A
Subject Property Address: 89447 Searchlight

Date: September 11, 2007
Contact Name: Eric Lyding
Sampler Name: Eric Lyding
EBI Project #: 61073335
Sampler's Phone #: 602-279-7480

Sampler's Fax #: 602-279-7481

12.5 Miles West of Searchlight, Searchlight, NV 89046
 Email all sampling results to elyding@ebiconsulting.com and mcunneen@ebiconsulting.com. Sampling results no longer need to be faxed.

 Please email results to mcunneen@ebiconsulting.com *****

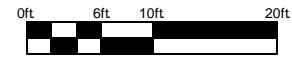
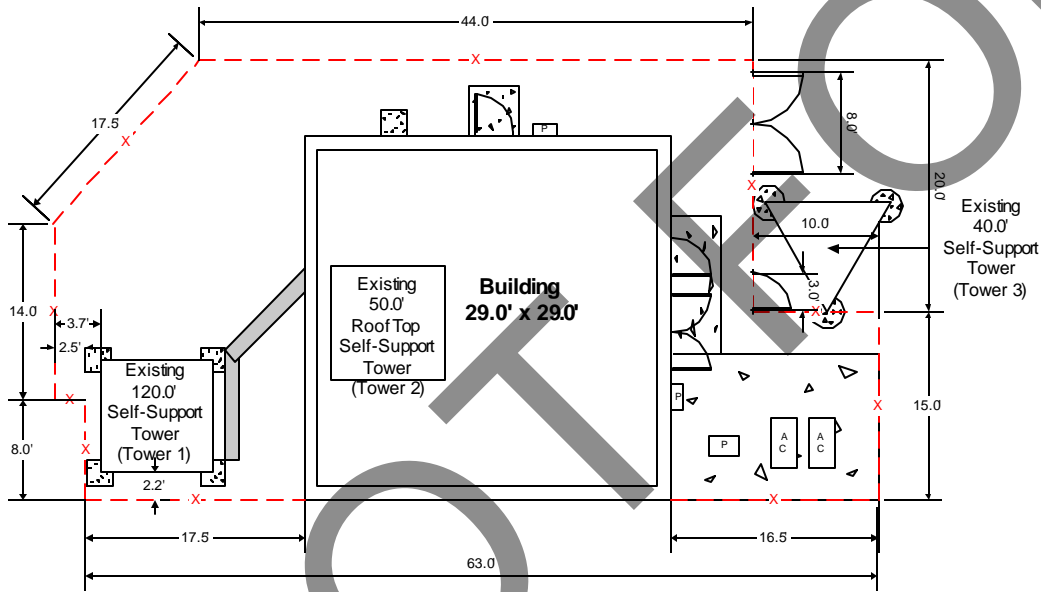
Sample Number *	Sample Date & Time *	Asbestos						Lead						Other (Specify Below)		Comments * (color/ type of material/ condition)	
		Bulk ID by PLM	(PCM) Fiber Count	PLM Point Count	PLM Gravimetric	TEM AHERA (Air)	TEM Chatfield (Bulk)	Air	Paint (%)	Paint (PPM)	Paint (mg/cm2)	Soil	Wipe	TCLP (Pb)	Waste Water		T.A.T. RUSH
3335 #1	9/10/2007 17:56	X													X		Gray/Floor Tile/Good
3336 #2	9/10/2007 17:59	X													X		Gray/Floor Tile/Good
3337 #3	9/10/2007 18:01														X		Gray/Floor Tile/Good
3338 #4	9/10/2007 18:02							X							X		Light Brown/Interior Paint/Good
3339 #5	9/10/2007 18:03							X							X		Light Brown/Interior Paint/Good
3340 #7	9/10/2007 18:07							X							X		Light Brown/Interior Paint/Good
3341 #8	9/10/2007 18:15							X							X		Roofing Material/Fair
3342 #9	9/10/2007 18:18							X							X		Roofing Material/Fair
3343 #10	9/10/2007 18:23							X							X		Roofing Material/Fair


SMILE CONDITION
 Acceptable
 Inceptible

Released by: Eric Lyding
Received by: Eric Lyding
Signature: *[Signature]*
Date/Time: 9/11/07 12:00 PM
DHL-Overnight: *[Signature]*
Signature: *[Signature]*
Date/Time: 9/11/07 2:00 PM
Signature: *[Signature]*
Date/Time: 9/12/07 12:00

ATTACHMENT D
LEASE EXHIBITS

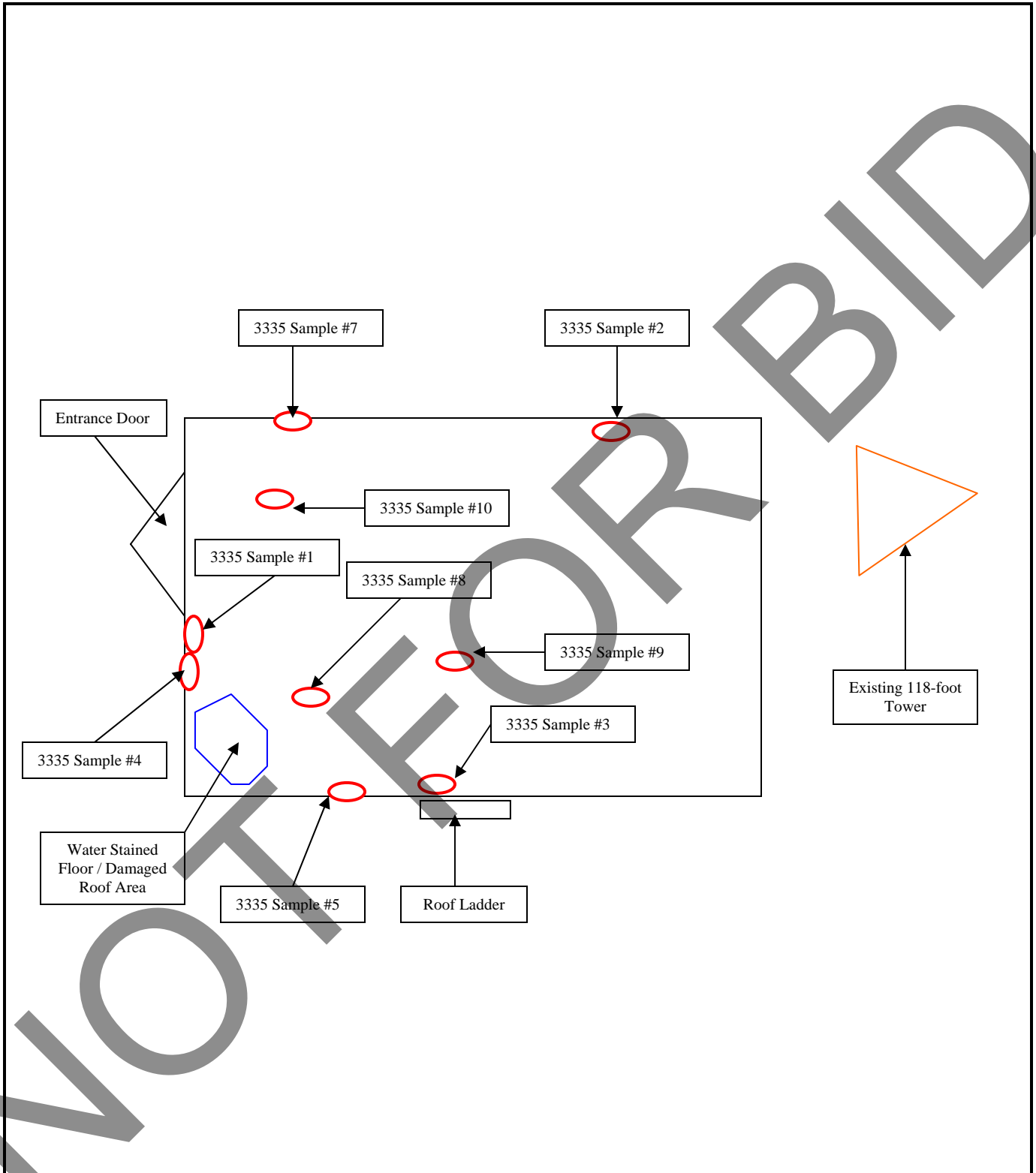
NOT FOR BID



 American Tower Corporation	SEARCHLIGHT			
	COMPOUND LAYOUT			
JLK	SIZE B	UPD	DWG NO 89447	REV 0
6/11/02	SCALE 1" = 10'	SHEET		2 OF 4

ATTACHMENT E
SAMPLE LOCATION MAP

NOT FOR BID



Sample Location Map

89447 / Searchlight
12.5 Miles West of Searchlight
Searchlight, Nevada 89046

PN: 61073335



Not to scale

ATTACHMENT F
CERTIFICATIONS

NOT FOR BID

SUMMARY OF EXPERIENCE

Mr. Lyding is a Project Scientist and has acted as the Western Region Project Coordinator and completing ESA and NEPA projects for the telecommunications industry throughout Arizona, California, Colorado, Florida, Illinois, Kansas, Missouri, New Mexico, Ohio, Oregon, and Washington.

RELEVANT PROJECT EXPERIENCE

Project Coordination: Mr. Lyding has performed as the Telecom Western Regional Coordinator and as a Western Regional Real Estate Assistant Coordinator. Mr. Lyding has been responsible for setting up and tracking all projects made by Western Telecom Managers, which includes assigning authors and reviewers for each project. Mr. Lyding has been in charge of making sure the authors obtain all the necessary documents needed for each project booked in the Western Region.

Research: In addition to project coordination, Mr. Lyding has completed projects for authors to meet client deliverable due dates. Mr. Lyding has assisted in the final stages of final reports for Telecommunication clients, in Arizona, California, Oregon and Washington, including all SHPO Letters for Arizona. Mr. Lyding has also prepared Tribal Consultation Letters and created Tribal Correspondence CDs for Telecommunication clients in Arizona. Mr. Lyding has prepared Environmental Databases and location/topographic maps for projects throughout the United States. Mr. Lyding has completed extensive file reviews, soil survey research, and historical research to support findings identified by ESA authors.

Reports: Mr. Lyding has completed several ESA and NEPA reports throughout Arizona, California, Colorado, Florida, Kansas, Illinois, Missouri, New Mexico and Ohio. Mr. Lyding has completed Asbestos, Mold and Lead-based Paint sampling in Arizona, California and Colorado. Mr. Lyding has completed NEPA Desk Reviews as a part of a portfolio for Cingular Wireless in Florida consisting of more than 800 locations. Mr. Lyding has completed ESA and ESA Update Reports to the new ASTM Standard as part of a portfolio for American Tower Corporation throughout the United States consisting of more than 1500 locations.

Other Areas of Experience: Mr. Lyding has also performed soil sampling, Lead-in-Water (LIW) sampling and Radon sampling for Real Estate projects in Arizona since being hired in 2005.

EDUCATION/TRAINING

Arizona State University, B.S. in Chemical Engineering, 2003
EBI ESA/PCS/PML Training – Los Angeles, CA Feb. 2005
EBI ESA/NEPA Training – San Francisco, CA Feb. 2006

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

EPA/AHERA Certified Asbestos Inspector (D7502)
40-Hour HAZWOPER
EPA Certified Lead Based Paint Inspector & Risk Assessor

NOT FOR BID

SUMMARY OF EXPERIENCE

Marianne Holleman is a Program Manager with over sixteen years project management/supervisory experience in the environmental industry. She has experience in various phases of environmental and hazardous material investigations and remediation including environmental site assessments, indoor air quality surveys, site characterization, health and safety plan, remedial action plans, remediation oversight, UST investigations, US removal specifications, special resource studies, asbestos management, radon/lead testing, and geophysical data studies.

Throughout her career, Ms. Holleman has gained her technical experience through the completion of numerous projects across the U.S. for industrial, commercial, financial, telecommunications and real estate management firms. Administrative aspects of her experience include report review, personnel training, project scheduling, client management, quality control, regulatory compliance, contract administration, invoicing and overall project management.

RELEVANT PROJECT EXPERIENCE

Telecommunications: Managed approximately 300 wireless telecommunication projects (Environmental Site Assessments & NEPA Checklists) in Arizona, New Mexico and Nevada. Duties included project set up, regulatory database ordering, staff allocation, report reviews, coordinating cultural resource subcontractors, preparation of weekly client spreadsheet, attending client training seminars and invoicing.

Environmental Site Assessments: Conducted over 800 Phase I Environmental Site Assessment projects in the west on industrial, commercial, residential, agricultural and undeveloped properties. Duties included performing site and area reconnaissance on the properties identifying potential environmental concerns with the site. Conducted regulatory searches and historical searches to help identify potential environmental concerns with the site and surrounding area. Designed/prepared and reviewed project proposal and report.

Phase II Environmental Site Assessments: Conducted approximately 100 Phase II Site Assessment projects. Duties included developing and implementing site health and safety plans, and advancing soil borings and collecting soil and groundwater samples to determine if any release to the subsurface had occurred. Designed/prepared and reviewed project proposal and report. Installed groundwater monitoring wells. Profiled and arranged for the transportation and disposal of contaminated materials at a licensed facility.

UST Management: Registered USTs, developed and implemented subsurface investigations, developed removal specifications and managed UST removal and disposal projects. Conducted site characterizations and saw project through closure with the appropriate state agency.

Special Resource Studies: Performed site and area field/documentation analysis for threatened and endangered species, wetlands, coastal barriers, and historical/archaeological value of the property and any structures present.

Indoor Air Quality Investigations: Conducted onsite inspections to determine what was causing the reported problems. Conducted sampling for various constituents (VOCs, temperature, humidity, carbon monoxide, carbon dioxide, and contaminants from raw sewage). Designed/prepared report.

Microbial Surveys: Conducted building inspections and sample collection on numerous multi-tenant residential and commercial facilities. Sample collection included sampling to determine the possible presence and extent of fungal contamination in the various apartments and tenant spaces. Designed/prepared report.

Asbestos Surveys/Management: Conducted building inspections and sample collection on approximately 400 industrial, commercial and residential properties. Sample collection included quantifying and mapping of all materials sampled. Designed/prepared report. Designed/prepared and reviewed project proposals, removal specifications, contract documents and reports. Conducted project oversight of removal contractor during abatement operations.

EDUCATION

B.S. Geophysical Engineering; Colorado School of Mines
MBA; University of North Texas

PROFESSIONAL AFFILIATIONS

Member – American Indoor Air Quality (IAQ) Council

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

Registered Environmental Assessor (REA I) – State of California
Certified Asbestos Consultant (CAC) – State of California
Certified Asbestos Consultant – State of Nevada
Certified Asbestos Consultant – State of Utah
EPA Certified Lead Risk Assessor/Inspector – State of Arizona and Tribal Lands
EPA Certified Lead Risk Assessor/Inspector – State of Nevada
EPA Certified Lead Risk Assessor/Inspector – State of New Mexico
AHERA Contractor/Supervisor, Project Designer, Building Inspector and Management Planner
Certified Mold Consultant
OSHA Hazardous Waste Operations
NIOSH 582
