

PHASE 1 CONTINUED SITE ASSESSMENT
NAV477 NAVAJO FORESTRY PRODUCTS INDUSTRY
NAVAJO, MCKINLEY COUNTY, NEW MEXICO



Tiis Yá Tóh, Inc.
Environmental Support Services



For:
Navajo Nation Environmental Protection Agency
Leaking Storage Tank Program
PO Box 3089
Window Rock, AZ 86515

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- C. Photograph Log
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1.0 Introduction

Tiis Yá Tóh, Inc. (TYT) has completed Phase 1 of the Continued Site Assessment at the Navajo Forestry Products Industry (NFPI). The NFPI site is in the town of Navajo in McKinley County, New Mexico. The property is currently owned by the Navajo Nation and is in the northwest quarter of the northwest quarter of Section 1, Township 19 North, Range 21 West. The site is currently under the purview of the Navajo Nation Environmental Protection Agency (NNEPA) and has known contaminants including asbestos and mid-range hydrocarbon products (diesel fuel mostly). A Topographic Site Location Map and Aerial Site Vicinity Map of the project area are presented as Figures 1 and 2, respectively.

The findings, opinions, and conclusions of this investigation are based upon an evaluation of data collected through the review of readily available records, a site reconnaissance, personal interviews, and a limited asbestos inspection.

1.1 Purpose

TYT submitted a workplan for a continued site assessment and waste characterization on August 28, 2018. Task 2 of the workplan included collection of six near surface soil samples and analysis for asbestos; completed August 30, 2018. Positive test results made it essential that an additional investigation for asbestos contamination be conducted before any further work could be completed at the site regarding petroleum hydrocarbon contamination and other waste characterization.

1.2 Project Scope

In order to obtain more background information about the site and assist in the location of other potential sources of contamination TYT completed the following scope of work for Phase 1 of the continued site assessment:

Historical Records Review

- Review of historical aerial photographs
- Review of historical blue prints and maps
- Interviews with former employees or family members of former employees
- Review of other historical documents provided by NNEPA and newspaper articles

Asbestos Soil Sampling

- Collection of six near surface soil samples from Areas 1-3 (2 each)
- Collection of 55 near surface samples from 40-foot square grids
- Analysis of asbestos fibers in soil analyzed per Transmission Electron Microscopy (TEM)

Asbestos Air Sampling

- Collection of three air samples from areas most likely to undergo future remediation activities (earth disturbance).
- Analysis per TEM

Asbestos Dust Sampling

- Collection of 13 dust samples from occupied adjacent buildings:
 - Seven samples from the Red Lake Chapter House
 - Three samples from Nations Gas Technologies warehouse
 - Three samples from Nations Gas Technologies offices
- Analysis per TEM

1.3 Limitations and Exceptions

This report reflects various sources of information gathered and readily available to TYT during the completion of the investigation. This report does not purport to be fully representative of all site conditions or events.

This report does not reflect:

- Conditions in untested areas.
- The potential presence of analytes that were not analyzed for or that may be present below minimum Practical Quantification Limits for the methods tested.
- The conditions of domestic water and/or surface water and soils beyond available data.
- Variation in site conditions that occurred at the time other than that the site inspection was completed.
- In the event that any conditions different from those described herein are encountered at a later time, TYT requests an opportunity to review such differences and modify the assessment and conclusions of this report, if necessary.

As consulting professionals, TYT cannot offer a guarantee or warranty regarding the absence of contamination in areas not investigated. TYT can only provide an opinion based on the information obtained for the areas studied and sampled. The level of confidence in the recommendations included herein depends on the scope of work agreed to by the client for the investigation.

2.0 Project Area Description

2.1 Project Area Location

The Former Navajo Forestry Products Industries is located in the town of Navajo in McKinley County, New Mexico. The property is further described as being located in the northwest quarter of the northwest quarter of Section 1, Township 19 North, Range 21 West.

2.2 Site and Vicinity General Characteristics

NFPI site is the location of the former sawmill that went into operation in 1962 and was closed in 1994. The project area consists of approximately 100 acres on the east side of Indian Service Route 12.

2.2.1 Topography

According to a review of topographic maps, the general topographic gradient is to the north, and the average elevation is approximately 7,090 feet above mean sea level (amsl). The property is relatively flat with a sudden rise in elevation on the north side due to a small area of a rock outcrop.

2.2.2 Soil Information

According to Websoil Survey, soils located within the project area include:

- *Doakum family-Betonnie complex*,
 - Parent material: Eolian deposits and fan alluvium derived from sandstone and/or eolian deposits and fan alluvium derived from sandstone and shale
 - With 1 to 8 percent slopes
 - Well drained

2.2.3 Geology

Previous investigations reported varying information on subsurface geology. However, for a general description the soils at the site consist of fat clay, sandy clays, and clays with sand. Sand lenses ranging from approximately 4 inches to 2 feet have been encountered at various depths.

2.2.4 Hydrology

From most recent groundwater investigations, the groundwater gradient is to the west at approximately 0.005 ft/ft, depth to groundwater ranges between 12 and 15 feet below ground surface.

3.0 Records Review

TYT conducted a review of reasonably ascertainable records to help provide a better understanding of the development and operation of the site and to identify additional sources of contamination. The records review included a subcontracted search of historical aerial photographs and manual search of readily available blueprints and maps. Interviews with former personnel were also conducted.

3.1 Aerial Photographs

TYT reviewed an aerial photograph report prepared by EDR on October 11, 2018. Aerial photographs reviewed were from 1952, 1953, 1975, 1986, 1997, 2007, 2011, 2014, and 2017. Observations made during a review of aerial photographs are as follows:

- **1952-1953:** Property is undeveloped except for small areas of apparent agricultural use.
- **1975:** The property has been developed as sawmill with a large timber storage area on the northeast side of the property. Five above ground storage tanks (ASTs) are visible on the east side of the property.
- **1986:** Additional buildings have been constructed on the west side and southeast corner of the property.
- **1997:** The pond area on the east side of the powerplant is not as defined as in previous photographs.
- **2007:** A large portion of the buildings have been removed and the ASTs.
- **2014-17:** All major structures have been removed except for the kiln.

Large trenches are present on the property (current day), and from the review of the aerial photographs the trenches correspond with the location of concrete footers for the former Sorting and Stacking building. Copies of the aerial photographs reviewed by TYT are included in Appendix A.

3.2.3 Historical Documents

TYT reviewed historical blueprints and maps that were available for viewing at the Red Lake Chapter House on October 10, 2018. The maps were inspected for evidence of chemical storage, fuel and chemical tanks, and sumps. Information was limited to a sump in the Cooling Tower and a Condensate Tank in the Power House. No other evidence of potential contaminate sources were revealed. Copies of the subject maps are provided in Appendix B.

4.0 Interviews

TYT interviewed three former employees and a relative of a former employee on October 17 and 19, 2018. Interviewees were asked what their position was at the facility and if they were aware of fuel storage areas and other chemicals that were used on the site. Of the three employees interviewed, they were all employed in the sawmill and were not familiar with the operations of the remaining facility. The person interviewed that was a relative of former employee is from Navajo, New Mexico, and has eye witness testimony that an underground storage tank was removed from the northeast portion of the property near the Power House. The individual said the tank came from the area near the current debris piles and large concrete cradles on the northeast portion of the property.

5.0 Asbestos Inspection

Asbestos sampling was performed in compliance with the established 40 CFR 763 sampling protocol and requirements set forth in the United States Department of Labor Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101. Ms. Lavina Lamone (EPA AHERA-accredited Asbestos Inspector) collected the samples. A photograph log documenting the sampling event is included in Appendix C.

5.1 Air Sampling

Three air samples were collected in the field simultaneously. The surface was disturbed by creating dust from field trucks and a backhoe driving around the area that will undergo future remediation activities. Air pumps were set up in Grids 10, 19, and 27.

Samples were collected using a 0.8 µm mixed cellulose ester (MCE) filter cassettes fitted to a high-volume air pump. Each pump was calibrated utilizing a Zefon rotometer calibration device to between 9 and 10 L/m. Air pumps were operated for 2.5 hours. Samples were analyzed per TEM.

5.2 Dust Sampling

Thirteen dust samples were collected from select adjacent buildings. The samples were collected and analyzed per TEM Microvac Dust analysis/ASTM Designation: D 5755-09. 0.8 µm MCE filter cassettes were fitted to a low volume air pump. Samples were collected from 100 cm² area where settled dust was observed. Samples were analyzed per TEM.

5.3 Soil Sampling

Fifty-five soil samples were collected using a bucket auger. Samples were 5-point composite samples from pre-marked 40 foot square grids from surface to 1 foot below ground surface. The auger was decontaminated between each soil boring. Soil samples were analyzed per TEM.

5.4 Summary of Regulatory Standards

As a part of this continued site assessment, TYT collected air, soil, and dust samples to confirm or dismiss the presence of asbestos fibers in the media. Sample results were compared to applicable state and federal standards and/or guidelines described below.

Per EPA's National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asbestos, materials containing asbestos fibers greater than or equal to 1% are considered asbestos containing. Additionally, OSHA's Permissible Exposure Limit (PEL) for workers is 0.1 fibers / cc.

5.5 Laboratory Analytical Results

Laboratory analytical results for all air samples collected were negative for asbestos fibers. Likewise, all dust samples collected from the interior of the selected adjacent occupied buildings were also negative for asbestos fibers. The remaining samples were 5-point composite soil samples, and all resulted in non-detect for asbestos fibers except for the samples summarized in Table 1 and laboratory analytical reports are provided in Appendix D.

**Table 1: Summary of Positive Asbestos Results - Soil
August and October 2018**

Sample ID	Date Collected	Depth (ft)	Location	% ACM Type
A1 Asb #1	8/30/2018	1-2	Area 1, near MW-2	1.48-1.81 Chrysotile
A1 Asb #2	8/30/2018	1-2	Area 1, former AST area	1.57-1.92 Chrysotile
A2 Asb #2	8/30/2018	1-2	North of 2017 excavation in ash/concrete debris stockpile	1.23-1.50 Chrysotile
477 #20	10/18/2018	0-1	Grid 20, East of Former Maintenance Shop and South of Fuel Island	1.67-2.04 Chrysotile
477 #21	10/18/2018	0-1	Grid 21, East of Former Maintenance Shop	1.67-2.04 Chrysotile

477 #22	10/18/2018	0-1	Grid 22, within the vicinity of MW-6	1.66-2.03 Chrysotile
477#27	10/18/2018	0-1	Grid 27, East of MW-2, Former AST area	1.55-1.90 Chrysotile

6.0 Conclusions

TYT has completed Phase 1 of the Continued Site Assessment at NFPI site. Activities included historical record review and asbestos survey of potentially affected media. The records revealed limited new information regarding sources of subsurface contamination except for the following:

1. A sump located in the Cooling Tower.
2. Eye witness testimony of an underground storage tank being removed near the former Power House.

Soil samples collected and analyzed for asbestos fibers resulted in positive detection for Area 1 and 2, Grids 20, 21, 22, and 27. Air and dust samples collected were negative for asbestos fibers and below OSHA PEL worker exposure limits.

7.0 Recommendations

Based on the results of Phase 1 of the Continued Site Assessment, TYT recommends:

1. Abatement of asbestos contaminated soil and debris piles within the areas planned for earth disturbance remediation activities. Positive debris piles should be removed in their entirety and soils should be excavated to 2 feet below ground surface.
2. Subsurface investigation northeast of the Power House to confirm or dismiss contamination from a reported removed underground storage tank.

8.0 Certification

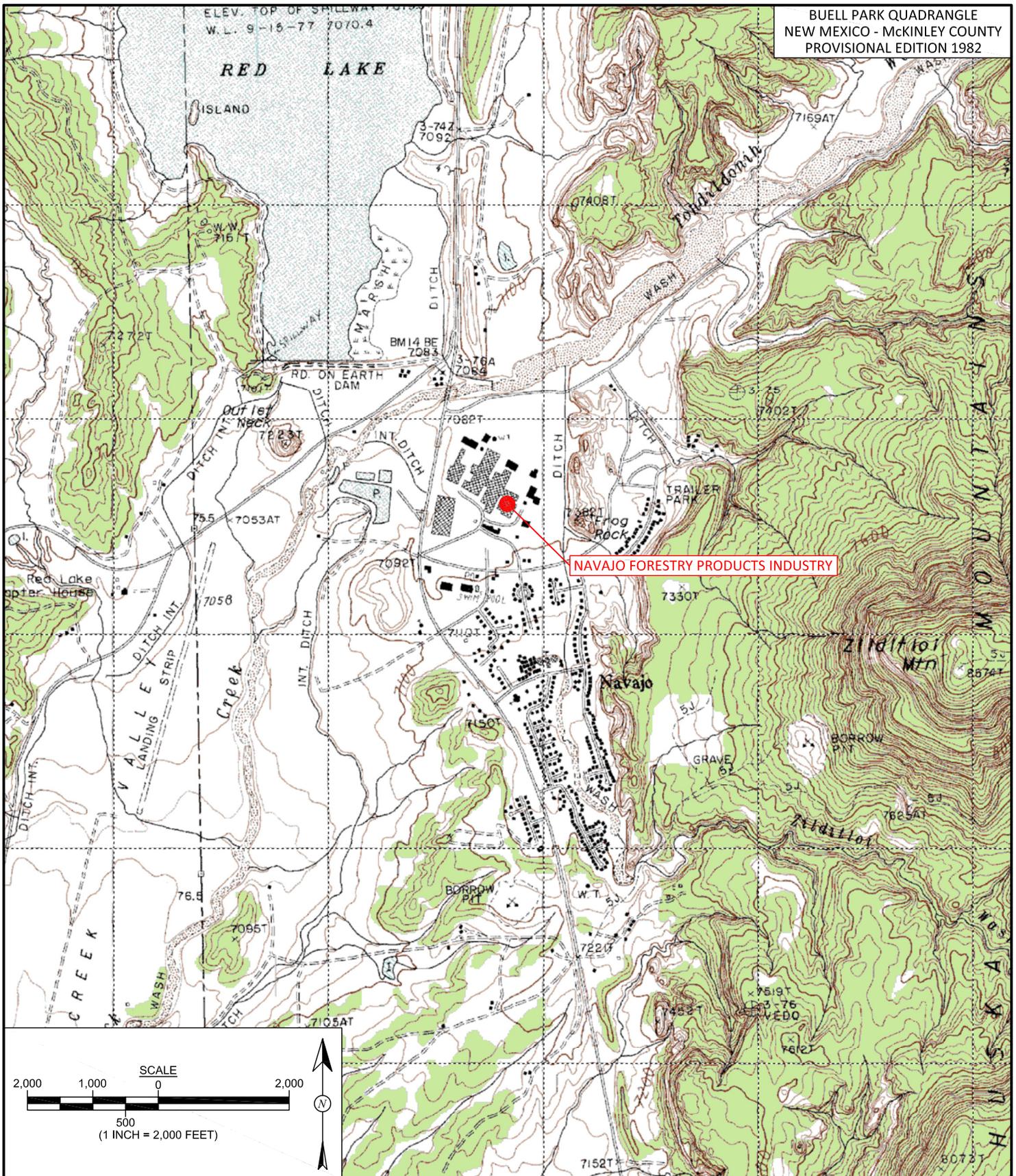
I, the undersigned, am personally familiar with the information submitted in this report and attest that it is true and complete to the best of my knowledge.

Submitted by:

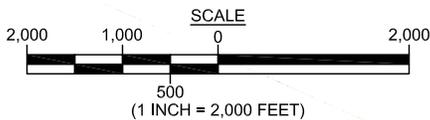
A handwritten signature in black ink, appearing to read "Lavina Lamone", with a long horizontal flourish extending to the right.

Lavina Lamone
Principal/Senior Scientist

Figures



NAVAJO FORESTRY PRODUCTS INDUSTRY

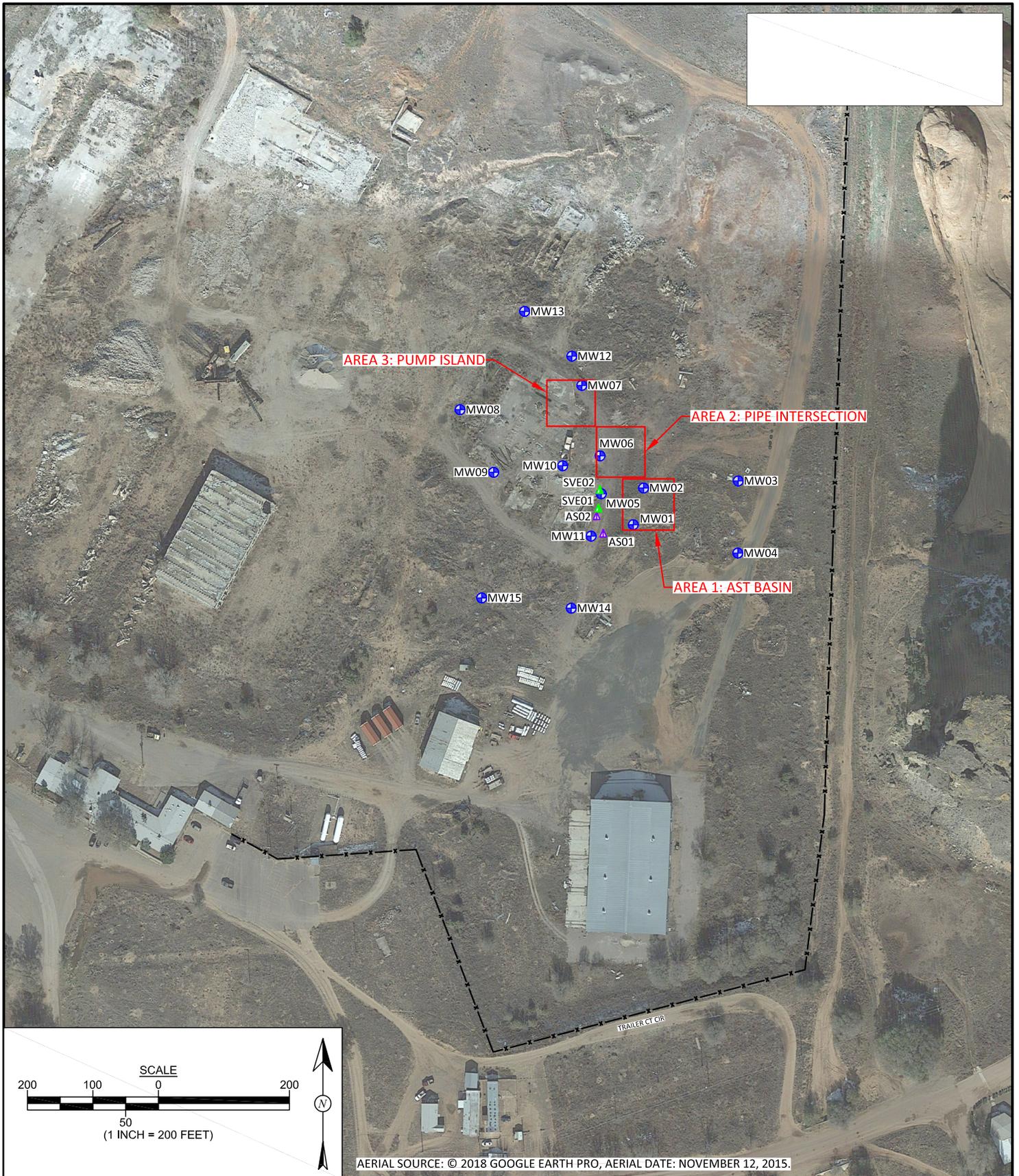


DRAWN BY: C. Lameman	DATE DRAWN: August 28, 2018
REVISIONS BY: C. Lameman	DATE REVISED: November 30, 2018
CHECKED BY: T. Knight	DATE CHECKED: November 30, 2018
APPROVED BY: L. Lamone	DATE APPROVED: November 30, 2018

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
 NAVAJO FORESTRY PRODUCTS INDUSTRY (NAV477)
 CONTINUED SITE ASSESSMENT AND
 WASTE CHARACTERIZATION 2018
 MCKINLEY COUNTY, NEW MEXICO



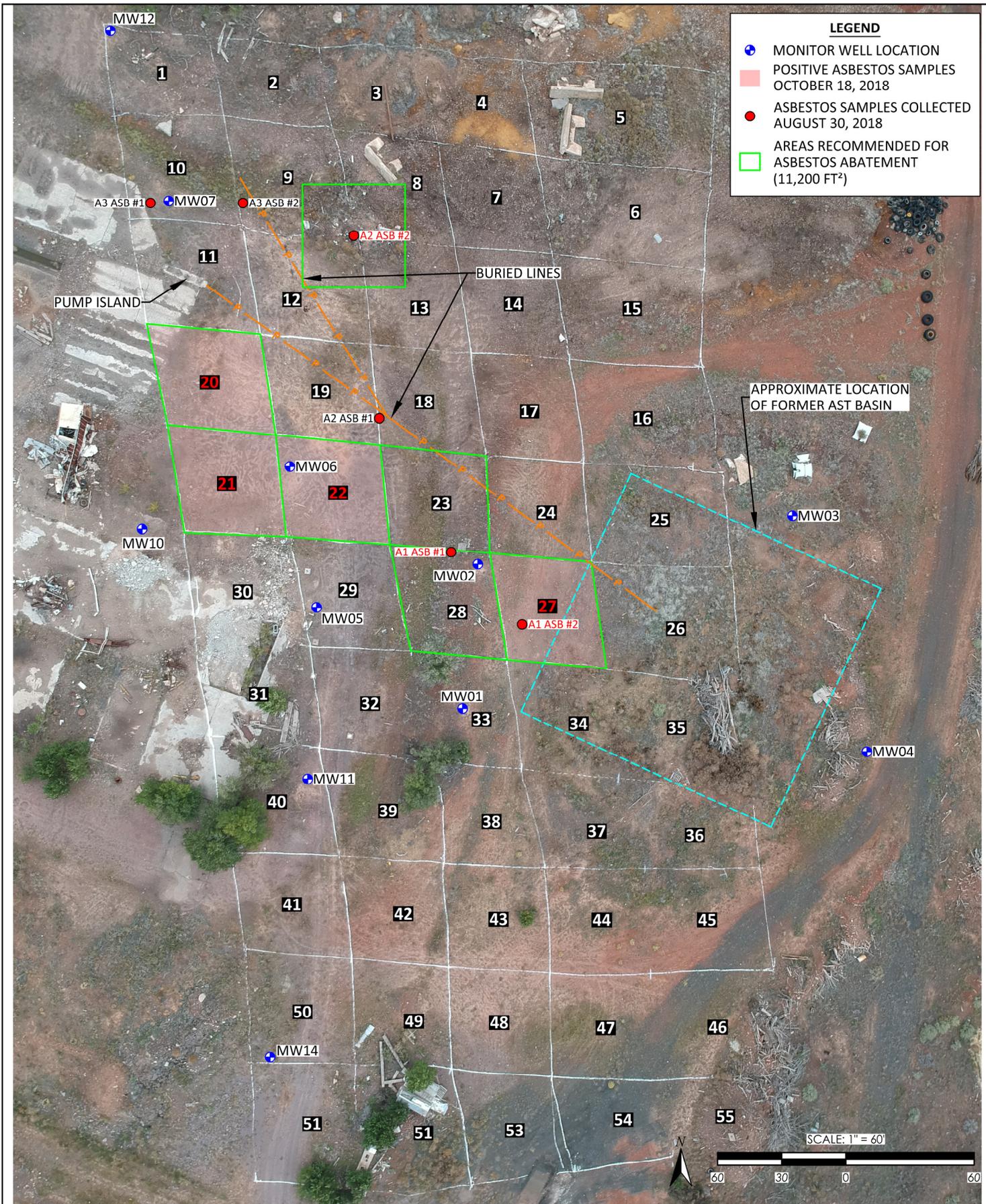


Tiis Yá Tóh, Inc.
Environmental Support Services

DRAWN BY: C. Lameman	DATE DRAWN: August 28, 2018
REVISIONS BY: C. Lameman	DATE REVISED: November 30, 2018
CHECKED BY: T. Knight	DATE CHECKED: November 30, 2018
APPROVED BY: L. Lamone	DATE APPROVED: November 30, 2018

FIGURE 2

AERIAL SITE MAP
NAVAJO FORESTRY PRODUCTS INDUSTRY (NAV477)
CONTINUED SITE ASSESSMENT AND
WASTE CHARACTERIZATION 2018
MCKINLEY COUNTY, NEW MEXICO



Appendix A



Navajo Forestry Products Industry

Walnut Avenue/Trailer Court Circle

Navajo, NM 87328

Inquiry Number: 5448058.1

October 11, 2018

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Site Name:

Navajo Forestry Products Indus
Walnut Avenue/Trailer Court Ci
Navajo, NM 87328
EDR Inquiry # 5448058.1

Client Name:

Animas Environmental Services
604 W Pinon St.,
Farmington, NM 87401
Contact: Tami Knight



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2007	1"=500'	Flight Year: 2007	USDA/NAIP
1997	1"=500'	Acquisition Date: October 13, 1997	USGS/DOQQ
1986	1"=500'	Flight Date: June 07, 1986	USDA
1975	1"=500'	Flight Date: June 14, 1975	USGS
1963	1"=500'	Flight Date: June 27, 1963	USGS
1952	1"=500'	Flight Date: September 18, 1952	USGS

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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INQUIRY #: 5448058.1

YEAR: 2017

— = 500'





INQUIRY #: 5448058.1

YEAR: 2014

— = 500'





INQUIRY #: 5448058.1

YEAR: 2011

— = 500'





INQUIRY #: 5448058.1

YEAR: 2007

— = 500'





INQUIRY #: 5448058.1

YEAR: 1997

— = 500'





INQUIRY #: 5448058.1

YEAR: 1986

— = 500'





INQUIRY #: 5448058.1

YEAR: 1975

— = 500'





INQUIRY #: 5448058.1

YEAR: 1963

— = 500'





INQUIRY #: 5448058.1

YEAR: 1952

— = 500'



Appendix B

NAV 477-Navajo Forestry Products Industry
Phase 1 Continued Site Assessment
Records Review

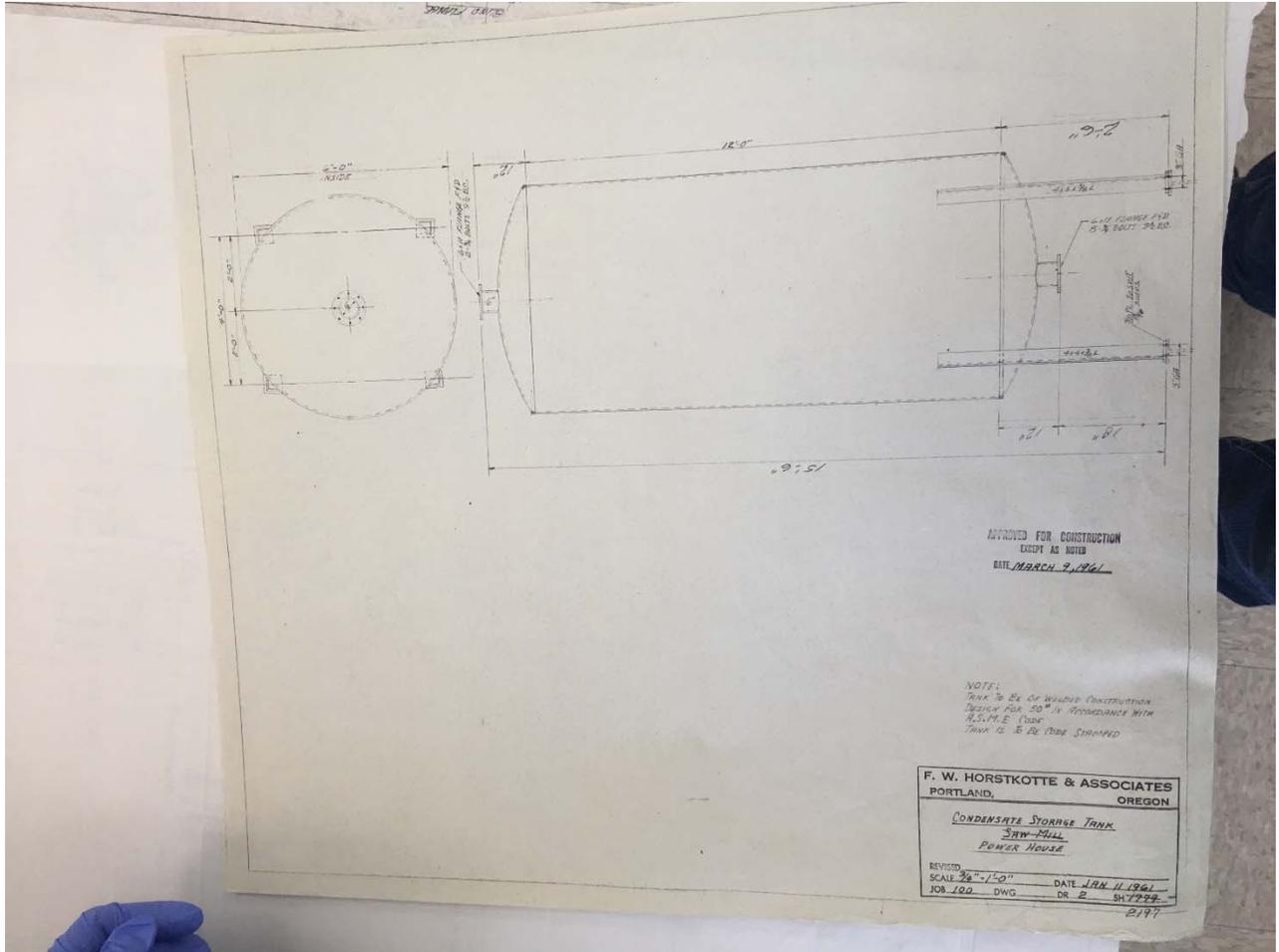


Photo 2 Power House condensate tank.

Appendix C

Navajo Forestry Products Industry



Photo 1: Setting up pumps and cassettes for air samples



Photo 2: Setting calibration for pump volume

Navajo Forestry Products Industry



Photo 3: Pump with tubing and cassette.



Photo 4: Setting pump #2

Navajo Forestry Products Industry



Photo 5: Pump #3 set up



Photo 6: Abatement Air Sampler was used to collect dust samples inside buildings.

Navajo Forestry Products Industry



Photo 7: Sampler with a 10 cm X 10 cm guide to aide in collecting 100 cm square area of dust.



Photo 8: Nations Gas Technologies kitchenette window sill, sampled

Navajo Forestry Products Industry



Photo 9: Nations Gas conference room west window sill, sampled



Photo 10: Red Lake Chapter House NW window sill, sampled

Navajo Forestry Products Industry



Photo 11: Red Lake Chapter House back area, window sill, sampled.



Photo 12: Red Lake Chapter House Men's restroom window sill, sampled

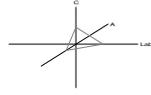
Appendix D

CA Labs

Dedicated to
Quality

Crisp Analytical, L.L.C.

1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



CA Labs, L.L.C.

11800 Industriplex, Suite 5
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

**Transmission Electron Microscopy Report
Bulk Asbestos Analysis
Laboratory Analysis Report
Chatfield Protocol**

Tiis Ya' Toh Inc.

PO Box 360
La Plata, NM 87418

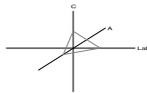
Reference number: CAL18085950AF

LABORATORY ANALYSIS:

The following bulk samples were provided to be analyzed by transmission electron microscopy (TEM) following the Chatfield Protocol. **CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM) and by the Texas Commission on Environmental Quality (TCEQ) for analysis of asbestos in drinking water. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC) PLM, TEM and PCM Asbestos fields of testing for industrial hygiene.** This analysis is not covered by the scope of accreditation by NVLAP. This test report relates only to the items tested. Neither NVLAP, AIHA or TCEQ accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full, without written permission by CA Labs.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety days before discarding. A shipping and handling fee may be assessed for the return of any samples.

Analysis performed at Crisp Analytical Labs, L.L.C. 1929 Old Denton Road Carrollton, TX 75006.



Transmission Electron Microscopy Chatfield Report

Analysis Method: Chatfield method for bulk materials.

Preparation Method: All samples are weighed, ashed at 480°C for 12 hours, weighed, washed with hydrochloric acid, filtered on PC membranes, weighed, and redistributed on a prepared Chatfield grid.

Client Information:

Tiis Ya' Toh Inc.
PO Box 360
La Plata, NM 87418

Phone: 505-793-4994

Fax:

Client Project:

NAV 477, Navajo Forestry Products Industry

Turnaround Time: 5 Days

Attn:

CA Labs Project #:

CAL18085950AF

Date of Sampling: 8/30/18

Report Date: 9/6/18

Samples Received: 8/31/18 10:30am

Purchase Order #:

Sample#	Asbestos Type / Weight Percent (lower / upper limit)	Organic Matrix Weight Percent	Carbonate Matrix Weight percent	Other Components Weight Percent
A1 Asb#1	1.48% Chrysotile – 1.81% Chrysotile	13.25%	4.26%	80.83%
A1 Asb#2	1.57% Chrysotile – 1.92% Chrysotile	6.87%	5.43%	85.93%
A2 Asb#1	None Detected	18.96%	9.41%	71.63%
A2 Asb#2	1.23% Chrysotile – 1.50% Chrysotile	24.20%	7.24%	67.18%
A3 Asb#1	None Detected	8.24%	2.08%	89.68%
A3 Asb#2	None Detected	9.44%	10.58%	79.98%
Glass Blank (NIST Fiberglass)		----	----	----
Predominant non-astestiform fibers are: N/A				

All samples received in good condition unless noted.

NVLAP # 200349-0

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Robert Olivarez
Analyst

TDH # 30-0235

Page 1 of 1

Julio Robles
Senior Analyst

Tanner Rasmussen
Technical Manager

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne fiber analysis (TEM). CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC.) in the TEM asbestos field of testing for Industrial Hygiene. This test report relates only to the items tested. Neither NVLAP, AIHA nor TCEQ accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full without written permission from CA Labs.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee may be assessed for the return of any samples.

NAVAJO Forestry Products Industry Chain of Custody

Client Name: Tiis Ya Toh Inc CA Labs job # CAL 8085950
 Client Address: PO Box 360 Billing Address: _____
Caplata, NM 87418 (if different) _____
 Phone number: 505-793-4994 P.O. # : _____
 Fax number: _____ Project Name: Forestry Products
 Email: lavina.lamone@tiis-yatoh.com Project Number: NAV 477 Industry
 Contact: lavina lamone Reports Results
 VIA: EMAIL FAX _____ VERBAL _____

Total # Samples Submitted: <u>6</u>	Total # Samples to be Analyzed: <u>6</u>	Material Matrix: Air / <u>Bulk</u> / Water
--	---	---

Asbestos: Soil please call ahead for availability of all rush and/or after hours samples.

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>		PCM: NIOSH 7400	Note TAT
AHERA	4 hour	Improved	4 hour	Allergen Particle:	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	AHERA	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
<u>Chatfield Bulk</u>	<u>5 days</u>	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 24 hrs for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	
TA Time:	8 hour	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
A1 ASB #1	@ 1.5'	8/30/2013 1031	
A1 ASB #2	@ 2'	1043	
A2 ASB #1	@ 2'	1051	
A2 ASB #2	@ 2'	1100	
A3 ASB #1	@ 1.5'	1107	
A3 ASB #2	@ 1.5'	1115	

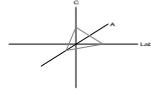
Custody Information:

Samples relinquished: [Signature] 8/31/13 1430 Signature / Date / Time
 Samples received: [Signature] 8/31/13 10:30am Signature / Date / Time

Samples relinquished: _____ Signature / Date / Time
 Samples received: _____ Signature / Date / Time

CA Labs
Dedicated to
Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



CA Labs, L.L.C.
11800 Industriplex, Suite 5
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

**Transmission Electron Microscopy Report
Dust Analysis
Laboratory Analysis Report
ASTM Microvac Protocol**

Tiis Ya' Toh Inc.
PO Box 360
La Plata, NM 87418

Reference number: CAL18107172AF

LABORATORY ANALYSIS

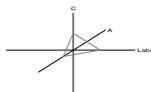
Summary of analytical transmission electron microscopy analysis, including x-ray microanalysis (EDS) and selected area diffraction (SAED) of air samples submitted. The samples were analyzed as per ASTM Microvac regulations (see METHOD below). This report confirms results issued from CA Labs by phone and/or fax. **CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM) and by the Texas Commission on Environmental Quality (TCEQ) for analysis of asbestos in drinking water. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC) in the PLM, TEM and PCM Asbestos fields of testing for industrial hygiene.** This analysis is not covered by the scope of accreditation of NVLAP.

METHOD:

The procedure for Microvac analysis of dust samples follows ASTM methodologies, designation D 5755-09. Any variation of the protocol requirements of the surfaced area sample (100cm²) will cause the reported concentration to be an estimate, only.

The test results relate only to the items described and tested herein. These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety days before discarding. A shipping and handling fee may be assessed for the return of any samples.

Analysis performed at Crisp Analytical Labs, L.L.C. 1929 Old Denton Road Carrollton, TX 75006; phone (972) 242-2754, fax (972) 242-2798.



Transmission Electron Microscopy Report

Analysis Method: TEM Microvac Dust analysis/ASTM Designation: D 5755-09

Preparation Method: Filters are Redistributed, Carbon Coated, Plasma ashed to ten percent weight loss, and Dissolved with Acetone in both jaffe-wick and condensate washer (cold-finger). All preps must be verified by another analyst.

Client Information:

Tiis Ya' Toh Inc.
PO Box 360
La Plata, NM 87418

Phone: 505-793-4994

Fax:

Client Project:

NAV477, NFPI – RLCH/Propane/Field

Turnaround Time: 2 Days

Attn: Lavina Lamone

CA Labs Project #:

CAL18107172AF

Date of Sampling: 10/19/18

Report Date: 10/24/18

Samples Received: 10/22/18 10:30am

Purchase Order #:

Sample#	Location – provided by client	Sample Surface Area (cm ²)	# GO Analyzed	Volume of Sample Dilution	Asbestos Structures Detected	Non - Asbestos Structures / Identification	Dust Concentration s/cm ²	Analytical Sensitivity s/cm ²
NFPI #1	N Window #1	100	10	9 mL	NSD	NSD	<985.19	985.19
NFPI #2	Office Window	100	10	9 mL	NSD	NSD	<985.19	985.19
NFPI #3	N Window #2	100	10	9 mL	NSD	NSD	<985.19	985.19
NFPI #4	Kitchen Window	100	10	9 mL	NSD	NSD	<985.19	985.19
NFPI #5	Window #3	100	10	9 mL	NSD	NSD	<985.19	985.19
NFPI #6	Window #4	100	10	9 mL	NSD	NSD	<985.19	985.19
NFPI #7	Men RR	100	10	9 mL	NSD	NSD	<985.19	985.19
NFPI #8	Nations Gas Propane Ofc	100	10	9 mL	NSD	NSD	<985.19	985.19

NVLAP # 200349-0

AIHA LAP, LLC Laboratory #102929

TDH # 30-0235

Approved Signatories:

Robert Olivarez
Analyst

Page 1 of 2

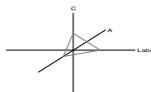
Tanner Rasmussen
Technical Manager

Julio Robles
Senior Analyst

Notes:

CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne fiber analysis (TEM) and by the TCEQ for analysis of asbestos in drinking Water. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC.) in the TEM asbestos field of testing for Industrial Hygiene. This test report relates only to the items tested. Neither NVLAP, AIHA nor TCEQ accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full without written permission from CA Labs. The laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in structures/cm² are dependent on the area sampled and measured by non-laboratory personnel.

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Transmission Electron Microscopy Report

Analysis Method: TEM Microvac Dust analysis/ASTM Designation: D 5755-09

Preparation Method: Filters are Redistributed, Carbon Coated, Plasma ashed to ten percent weight loss, and Dissolved with Acetone in both jaffe-wick and condensate washer (cold-finger). All preps must be verified by another analyst.

Client Information:

Tiis Ya' Toh Inc.
PO Box 360
La Plata, NM 87418

Phone: 505-793-4994

Fax:

Client Project:

NAV477, NFPI – RLCH/Propane/Field

Turnaround Time: 2 Days

Attn: Lavina Lamone

CA Labs Project #:

CAL18107172AF

Date of Sampling: 10/19/18

Report Date: 10/24/18

Samples Received: 10/22/18 10:30am

Purchase Order #:

Sample#	Location – provided by client	Sample Surface Area (cm ²)	# GO Analyzed	Volume of Sample Dilution	Asbestos Structures Detected	Non - Asbestos Structures / Identification	Dust Concentration s/cm ²	Analytical Sensitivity s/cm ²
NFPI #9	Nations Gas Conf Rm	100	10	9 mL	NSD	NSD	<985.19	985.19
NFPI #10	Nations Gas Kitchenette	100	10	9 mL	NSD	NSD	<985.19	985.19
NFPI #11	Garage N Ext Wall	100	10	9 mL	NSD	NSD	<985.19	985.19
NFPI #12	Garage NW Ext Wall	100	10	9 mL	NSD	NSD	<985.19	985.19
NFPI #13	Garage SW Ext Wall	100	10	9 mL	NSD	NSD	<985.19	985.19
Lab Blank		0.0	10	2 ml	NSD	NSD	----	----

All samples received in good condition unless noted.

Dilution Factor:	N/A	Area Analyzed:	0.1200 mm ²	Grid Opening Area:	0.0120 mm ²
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NVLAP # 200349-0
AIHA LAP, LLC Laboratory #102929
TDH # 30-0235

Approved Signatories:

Robert Olivarez
Analyst

Page 2 of 2

Tanner Rasmussen
Technical Manager

Julio Robles
Senior Analyst

Notes:

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Chain of Custody

Client Name: Tiis Ya Toh Inc CA Labs job # CAL 18107172
 Client Address: PO Box 360 Billing Address: _____
LAPlata NM 87418 (if different) _____
 Phone number: 505-793-4994 P.O. # : _____
 Fax number: _____ Project Name: NFPI - RLCH / Propane / Field
 Email: lavina.lamone@tiisyatoh.com Project Number: NAV 477
 Contact: Lavina Lamone Reports Results
 VIA: EMAIL FAX _____ VERBAL _____

Total # Samples Submitted: <u>14</u>	Total # Samples to be Analyzed: <u>10</u>	Material Matrix: <u>Air</u> / <u>Bulk</u> / Water
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Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	<i>2 hour</i>	PCM: NIOSH 7400	Note TAT
ASHERA	4 hour	Improved	4 hour	Allergen Particle:	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	ASHERA	24 hour	Air-o-cell cassettes	5-10 days
<u>Micro-vac</u>	<u>2 days</u>		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 24 hrs for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	
TA Time:	<u>8 hour</u>	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
NFPI #1	R.L.CH N. Window #1	10/19/2018 1008	N/A Bulk
NFPI #2	R.L.CH Office Window	10/19/2018 1009	N/A
NFPI #3	R.L.CH N. Window #2	10/19/2018 1011	N/A
NFPI #4	R.L.CH Kitchen Window	10/19/2018 1014	N/A
NFPI #5	R.L.CH Window #3	10/19/2018 1019	N/A

Custody Information:

Samples relinquished: [Signature] 10/19/2018 1530 Samples received: _____

Samples relinquished: _____ Samples received: _____

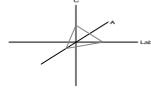
[Signature] 10:30AM 10-22-18
 Signature / Date / Time

CA Labs

Dedicated to
Quality

Crisp Analytical, L.L.C.

1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



CA Labs, L.L.C.

11800 Industriplex, Suite 5
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

**Transmission Electron Microscopy Report
Bulk Asbestos Analysis
Laboratory Analysis Report
Chatfield Protocol**

Tiis Ya' Toh Inc.

PO Box 360
La Plata, NM 87418

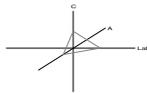
Reference number: CAL18107198AF

LABORATORY ANALYSIS:

The following bulk samples were provided to be analyzed by transmission electron microscopy (TEM) following the Chatfield Protocol. **CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM) and by the Texas Commission on Environmental Quality (TCEQ) for analysis of asbestos in drinking water. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC) PLM, TEM and PCM Asbestos fields of testing for industrial hygiene.** This analysis is not covered by the scope of accreditation by NVLAP. This test report relates only to the items tested. Neither NVLAP, AIHA or TCEQ accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full, without written permission by CA Labs.

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Analysis performed at Crisp Analytical Labs, L.L.C. 1929 Old Denton Road Carrollton, TX 75006.



Transmission Electron Microscopy Chatfield Report

Analysis Method: Chatfield method for bulk materials.

Preparation Method: All samples are weighed, ashed at 480°C for 12 hours, weighed, washed with hydrochloric acid, filtered on PC membranes, weighed, and redistributed on a prepared Chatfield grid.

Client Information:

Tiis Ya' Toh Inc.
PO Box 360
La Plata, NM 87418

Phone: 505-793-4994

Fax:

Client Project:

NAV477, Navajo Forestry Products Industry

Turnaround Time: 5 Days

Attn:

CA Labs Project #:

CAL18107198AF

Date of Sampling: 10/18/18

Report Date: 10/29/18

Samples Received: 10/22/18 10:30am

Purchase Order #:

Sample#	Asbestos Type / Weight Percent (lower / upper limit)	Organic Matrix Weight Percent	Carbonate Matrix Weight percent	Other Components Weight Percent
477 #1	None Detected	9.11%	7.73%	83.16%
477 #2	None Detected	16.10%	9.14%	74.76%
477 #3	None Detected	65.51%	1.10%	33.39%
477 #4	None Detected	85.42%	1.18%	13.40%
477 #5	None Detected	28.72%	1.03%	70.25%
477 #6	None Detected	42.04%	1.09%	56.87%
477 #7	None Detected	52.81%	0.89%	46.30%
477 #8	None Detected	53.55%	0.69%	45.76%
477 #9	None Detected	38.92%	2.14%	58.94%
477 #10	None Detected	9.47%	1.62%	88.91%
477 #11	None Detected	61.92%	9.02%	29.06%
477 #12	None Detected	13.81%	8.33%	77.86%

NVLAP # 200349-0

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Robert Olivarez
Analyst

TDH # 30-0235

Page 1 of 5

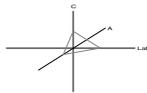
Julio Robles
Senior Analyst

Tanner Rasmussen
Technical Manager

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne fiber analysis (TEM). CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC.) in the TEM asbestos field of testing for Industrial Hygiene. This test report relates only to the items tested. Neither NVLAP, AIHA nor TCEQ accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full without written permission from CA Labs.

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Transmission Electron Microscopy Chatfield Report

Analysis Method: Chatfield method for bulk materials.

Preparation Method: All samples are weighed, ashed at 480°C for 12 hours, weighed, washed with hydrochloric acid, filtered on PC membranes, weighed, and redistributed on a prepared Chatfield grid.

Client Information:

Tiis Ya' Toh Inc.
PO Box 360
La Plata, NM 87418

Phone: 505-793-4994

Fax:

Client Project:

NAV477, Navajo Forestry Products Industry

Turnaround Time: 5 Days

Attn:

CA Labs Project #:

CAL18107198AF

Date of Sampling: 10/18/18

Report Date: 10/29/18

Samples Received: 10/22/18 10:30am

Purchase Order #:

Sample#	Asbestos Type / Weight Percent (lower / upper limit)	Organic Matrix Weight Percent	Carbonate Matrix Weight percent	Other Components Weight Percent
477 #13	None Detected	25.01%	0.87%	74.12%
477 #14	None Detected	25.20%	0.87%	73.93%
477 #15	None Detected	23.09%	3.87%	73.04%
477 #16	None Detected	26.95%	1.33%	71.72%
477 #17	None Detected	24.47%	1.92%	73.61%
477 #18	None Detected	17.15%	2.18%	80.67%
477 #19	None Detected	10.03%	0.65%	89.02%
477 #20	1.67% Chrysotile – 2.04% Chrysotile	6.65%	0.47%	91.01%
477 #21	1.67% Chrysotile – 2.04% Chrysotile	5.14%	2.03%	90.95%
477 #22	1.66% Chrysotile – 2.03% Chrysotile	5.43%	2.22%	90.48%
477 #23	None Detected	14.49%	0.58%	84.93%
477 #24	None Detected	8.55%	2.86%	88.59%

NVLAP # 200349-0

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Robert Olivarez
Analyst

TDH # 30-0235

Page 2 of 5

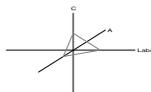
Julio Robles
Senior Analyst

Tanner Rasmussen
Technical Manager

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne fiber analysis (TEM). CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC.) in the TEM asbestos field of testing for Industrial Hygiene. This test report relates only to the items tested. Neither NVLAP, AIHA nor TCEQ accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full without written permission from CA Labs.

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Transmission Electron Microscopy Chatfield Report

Analysis Method: Chatfield method for bulk materials.

Preparation Method: All samples are weighed, ashed at 480°C for 12 hours, weighed, washed with hydrochloric acid, filtered on PC membranes, weighed, and redistributed on a prepared Chatfield grid.

Client Information:

Tiis Ya' Toh Inc.
PO Box 360
La Plata, NM 87418

Phone: 505-793-4994

Fax:

Client Project:

NAV477, Navajo Forestry Products Industry

Turnaround Time: 5 Days

Attn:

CA Labs Project #:

CAL18107198AF

Date of Sampling: 10/18/18

Report Date: 10/29/18

Samples Received: 10/22/18 10:30am

Purchase Order #:

Sample#	Asbestos Type / Weight Percent (lower / upper limit)	Organic Matrix Weight Percent	Carbonate Matrix Weight percent	Other Components Weight Percent
477 #25	None Detected	7.29%	3.04%	89.67%
477 #26	None Detected	13.75%	3.86%	82.39%
477 #27	1.55% Chrysotile – 1.90% Chrysotile	6.08%	7.36%	84.81%
477 #28	None Detected	12.86%	0.98%	86.16%
477 #29	None Detected	7.51%	1.09%	91.40%
477 #30	None Detected	10.84%	3.11%	86.05%
477 #31	None Detected	11.94%	2.68%	85.38%
477 #32	None Detected	6.22%	11.41%	82.37%
477 #33	None Detected	10.96%	0.98%	88.06%
477 #34	None Detected	7.57%	0.95%	91.48%
477 #35	None Detected	5.70%	8.04%	86.26%
477 #36	None Detected	7.81%	0.52%	91.67%

NVLAP # 200349-0

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Robert Olivarez
Analyst

TDH # 30-0235

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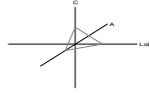
Julio Robles
Senior Analyst

Tanner Rasmussen
Technical Manager

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PO Box 360
La Plata, NM 87418

Phone: 505-793-4994

Fax:

Client Project:

NAV477, Navajo Forestry Products Industry

Turnaround Time: 5 Days

Attn:

CA Labs Project #:

CAL18107198AF

Date of Sampling: 10/18/18

Report Date: 10/29/18

Samples Received: 10/22/18 10:30am

Purchase Order #:

Sample#	Asbestos Type / Weight Percent (lower / upper limit)	Organic Matrix Weight Percent	Carbonate Matrix Weight percent	Other Components Weight Percent
477 #37	None Detected	7.01%	0.85%	92.14%
477 #38	None Detected	5.56%	0.98%	93.46%
477 #39	None Detected	7.57%	2.92%	89.51%
477 #40	None Detected	7.62%	0.98%	91.40%
477 #41	None Detected	5.12%	1.21%	93.67%
477 #42	None Detected	8.03%	0.83%	91.14%
477 #43	None Detected	4.50%	2.92%	92.58%
477 #44	None Detected	5.04%	9.57%	85.39%
477 #45	None Detected	4.74%	9.44%	85.82%
477 #46	None Detected	5.43%	2.02%	92.55%
477 #47	None Detected	5.70%	3.72%	90.58%
477 #48	None Detected	3.36%	5.86%	90.79%

NVLAP # 200349-0

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Robert Olivarez
Analyst

TDH # 30-0235

Page 4 of 5

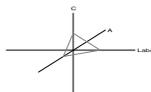
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Senior Analyst

Tanner Rasmussen
Technical Manager

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Transmission Electron Microscopy Chatfield Report

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Client Information:

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La Plata, NM 87418

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Fax:

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NAV477, Navajo Forestry Products Industry

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Attn:

CA Labs Project #:

CAL18107198AF

Date of Sampling: 10/18/18

Report Date: 10/29/18

Samples Received: 10/22/18 10:30am

Purchase Order #:

Sample#	Asbestos Type / Weight Percent (lower / upper limit)	Organic Matrix Weight Percent	Carbonate Matrix Weight percent	Other Components Weight Percent
477 #49	None Detected	4.75%	3.32%	91.93%
477 #50	None Detected	7.51%	3.06%	89.43%
477 #51	None Detected	4.19%	1.48%	94.33%
477 #52	None Detected	4.31%	6.50%	89.19%
477 #53	None Detected	8.60%	1.04%	90.36%
477 #54	None Detected	8.64%	5.25%	86.11%
477 #55	None Detected	6.15%	3.40%	90.45%
Glass Blank (NIST Fiberglass)		----	----	----
Predominant non-asbestiform fibers are: N/A				

All samples received in good condition unless noted.

NVLAP # 200349-0

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Robert Olivarez
Analyst

TDH # 30-0235

Page 5 of 5

Julio Robles
Senior Analyst

Tanner Rasmussen
Technical Manager

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne fiber analysis (TEM). CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC.) in the TEM asbestos field of testing for Industrial Hygiene. This test report relates only to the items tested. Neither NVLAP, AIHA nor TCEQ accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full without written permission from CA Labs.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee may be assessed for the return of any samples.



Crisp Analytical Laboratories, L.L.C
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-242-2754
Fax: 972-242-2798
Mobile: 469-222-6967

NPR + MV477

Page 1 of 3

Chain of Custody

Client Name: Tiis Ya' Toh Inc CA Labs job # CAL 18107198
 Client Address: PO Box 360 Billing Address: _____
LAPATA, NM 87418 (if different) _____
 Phone number: 505-793-4994 P.O.#: _____
 Fax number: _____ Project Name: NAVAJO Forestry
 Email: lavina.lamone@tiisyatoh.com Project Number: NAV 477
 Contact: LAVINA LAMONE Reports Results
 VIA: EMAIL FAX _____ VERBAL _____
 Total # Samples Submitted: 55 Total # Samples to be Analyzed: 55 Material Matrix:
 Air / (Bulk) Water

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	<i>2 hour</i>	PCM: NIOSH 7400	Note TAT
AHERA	4 hour	Improved	4 hour	Allergen Particle:	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	AHERA	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	<u>5 days</u>	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 24 hrs for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	
TA Time:	<u>8 hour</u>	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
477#1	Section 1 @ 1' bgs.	10/18/2018 0951	5 pt. Composite
477#2	Section 2 @ 1' bgs	10/18/2018 1430	5 pt. Composite
477#3	Section 3 @ 1' bgs	10/18/2018 1432	5 pt. composite
477#4	Section 4 @ 1' bgs	10/18/2018 1434	5 pt. composite
477#5	Section 5 @ 1' bgs	10/18/2018 1435	5 pt. composite

Custody Information:

Samples relinquished: [Signature] 10/19/2018 Signature / Date / Time
 Samples received: [Signature] 10/22/18 10:30AM Signature / Date / Time
 Samples relinquished: _____ Signature / Date / Time
 Samples received: _____ Signature / Date / Time

Client Name: <u>Tiis Ya' Tsh Inc</u>	CA Labs job # <u>CAL 18107198</u>
Client Address: <u>PO Box 360</u>	Billing Address: _____
<u>LAPIATA, NM 87418</u>	(if different) _____
phone number: <u>505-793-4994</u>	Project Name: <u>NAVASO Forestry Products Industr</u>
fax number: _____	Project Number: <u>NAV 477</u>
Send Reports to: <u>Javina Lamone</u>	

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
477 #6	Section 6 @ 1'	10/18/2018	1437
477 #7	Section 7 @ 1'	10/18/2018	1438
477 #8	Section 8 @ 1'		1439
477 #9	Section 9 @ 1'		1440
477 #10	Section 10 @ 1'		1441
477 #11	Section 11 @ 1'		1442
477 #12	Section 12 @ 1'		1444
477 #13	Section 13 @ 1'		1446
477 #14	Section 14 @ 1'		1447
477 #15	Section 15 @ 1'		1448
477 #16	Section 16 @ 1'		1449
477 #17	Section 17 @ 1'		1451
477 #18	Section 18 @ 1'		1452
477 #19	Section 19 @ 1'		1453
477 #20	Section 20 @ 1'		1454
477 #21	Section 21 @ 1'		1455
477 #22	Section 22 @ 1'		1456
477 #23	Section 23 @ 1'		1459
477 #24	Section 24 @ 1'		1500
477 #25	Section 25 @ 1'		1502
477 #26	Section 26 @ 1'		1504
477 #27	Section 27 @ 1'		1505
477 #28	Section 28 @ 1'		1507
477 #29	Section 29 @ 1'		1508
477 #30	Section 30 @ 1'		1510
477 #31	Section 31 @ 1'		1511

For internal use:
Any initial changes regarding project (indicate yes by checking line) _____

[Signature] 10/22/18
10:30A

NFPI NAV 477
Pg. 3 of 3
(Soil Samples)

Client Name: <u>Tiis Ya Toh Inc</u>	CA Labs job # <u>CAL 18107198</u>
Client Address: <u>PO Box 360</u>	Billing Address: _____
<u>La Plata, NM 87418</u>	(if different) _____
phone number: <u>505-793-4994</u>	Project Name: <u>NWASO Forestry Products Reduction</u>
fax number: _____	Project Number: <u>NAV 477</u>
Send Reports to: <u>Laura Lerner</u>	

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
477#32	Section 32 @ 1'	10/18/2018 1512	5 pt. composite
477#33	Section 33 @ 1'	10/18/2018 1513	
477#34	Section 34 @ 1'	1514	
477#35	Section 35 @ 1'	1517	
477#36	Section 36 @ 1'	1518	
477#37	Section 37 @ 1'	1519 1519	
477#38	Section 38 @ 1'	1520	
477#39	Section 39 @ 1'	1521	
477#40	Section 40 @ 1'	1522	
477#41	Section 41 @ 1'	1524	
477#42	Section 42 @ 1'	1525	
477#43	Section 43 @ 1'	1526	
477#44	Section 44 @ 1'	1527	
477#45	Section 45 @ 1'	1529	
477#46	Section 46 @ 1'	1530	
477#47	Section 47 @ 1'	1531	
477#48	Section 48 @ 1'	1533	
477#49	Section 49 @ 1'	1535 1535	
477#50	Section 50 @ 1'	1536	
477#51	Section 51 @ 1'	1537	
477#52	Section 52 @ 1'	1538	
477#53	Section 53 @ 1'	1539	
477#54	Section 54 @ 1'	1544	
477#55	Section 55 @ 1'	1545	

For internal use:
Any initial changes regarding project (indicate yes by checking line) _____

A 10/22/18
10:30 AM