

**ADDENDUM
Preliminary Assessment
of an
Identified Illegal Drug Laboratory
at:**

**3834 South Knox Court
Lakewood, CO
80236-6121**

**(Applicable for Unit 3830 and Unit 3832 So. Knox
Court, Lakewood, CO)**

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June 13, 2013

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EXECUTIVE SUMMARY

On Tuesday, April 23, 2013, personnel from Forensic Applications Consulting Technologies, Inc. (FACTs) performed a real estate cursory evaluation for methamphetamine at Unit 3834 of a three unit structure located at 3834 South Knox Court, Lakewood, CO (the subject property). The samples resulted in the discovery of an Illegal Drug Laboratory, as described in a May 2, 2013, report issued by FACTs.

FACTs was subsequently contracted by the Registered Owner (RO) of the subject property to perform a standard State-mandated Preliminary Assessment (PA). From May 9, 2013 to May 24, 2013, personnel from FACTs performed the PA pursuant to Colorado Regulation 6 CCR 1014-43, Part 4. The report of the Preliminary Assessment was issued on May 28, 2013. A copy of the report was submitted to the Tri-county Health Department on the same day.

On Wednesday, June 5, 2013, the Building Department for the City of Sheridan, CO issued an evacuation order for all three Units (3830, 3832, and 3834 South Knox Ct.). The evacuation was effective immediately with a not to occupy after June 8, 2013 at 13:30.

On June 5, the RO's representative (Ms. Mary Ellis) instructed FACTs to return to the property and to perform the compliance sampling on the remaining structure and to include sampling for the personal belongings of the occupants of Unit 3830 and Unit 3832 S. Knox Court.

On June 6, 2013, FACTs personnel performed the site assessment portion of a Preliminary Assessment on Units 3830 and 3832 S. Knox Court.

Samples taken during the June 6, 2013 evaluation conclusively demonstrated the presence of widespread and overt methamphetamine contamination throughout the entire structure including the attic and all personal belongings contained therein.

Based on the totality of the circumstances, FACTs makes the following observations:

- The entire structure known as 3830, 3832 and 3834 S. Knox Court, Lakewood, CO exhibits overt noncompliance with Colorado's methamphetamine cleanup standards.
- Noncompliance extends to all locations within the structure including all three forced air heating systems, the common attic, the common crawlspace, and all personal belongings located in the structure.
- The crawlspace associated with 3830, 3832 and 3834 S. Knox Court, Lakewood, CO exhibits overt noncompliance with Colorado's methamphetamine cleanup standards.
- A noncompliant illegal drug lab, as that term is defined in CRS §25-18.5-101, existed at the subject property from at least April 23, 2013, forward, and continues to exist at the time of this Preliminary Assessment.



- A Class 1 Public Nuisance, as defined in CRS §16-13-303(1) existed at the subject property from at least April 23, 2013, forward, and continues to exist at the time of this report.
- Following the decontamination activities at the subject property, a qualified Industrial Hygienist must perform the post-decontamination process and issue a Decision Statement before reentry or occupancy of Units 3830, 3832 and 3834 of the subject property may occur.

REGULATORY REQUIREMENTS

Federal Requirements

All work associated with this PA was performed in a manner consistent with regulations promulgated by the Federal Occupational Safety and Health Administration (OSHA).

State Requirements

See the May 28, 2013 FACTs report.

County Requirements

To the best of our knowledge, Arapahoe County does not have any specific regulations over and above the State mandated requirements. To the best of our knowledge, Arapahoe County has deferred the office of the Governing Body to Tri-county Health Department.

City Regulations

To the extent that the City of Sheridan Building Department has taken regulatory actions, the City of Sheridan Building Department appears to have assigned itself the authority of Governing Body. The authority for such an assignment is found in CRS 25-18.5-101 (amongst other locations in State statute).

Elements of the Preliminary Assessment

Specific mandatory information must be presented as part of the PA. This addendum, in conjunction with the May 28, 2013 Preliminary Assessment report, contains the mandatory information for a PA as follows:



Mandatory Final Documents 6-CCR 1014-3	DOCUMENTATION	Included
§4.1	Property description field form	<i>[Signature]</i>
§§4.4, 4.5	Description of manufacturing methods and chemicals	<i>[Signature]</i>
§4.2	Law Enforcement documentation review discussion	<i>[Signature]</i>
§4.7	Description and Drawing of Storage area(s)	<i>[Signature]</i>
§4.8	Description and Drawing of Waste area(s)	<i>[Signature]</i>
§4.9	Description and Drawing of Cook area(s)	<i>[Signature]</i>
§§4.3, 4.6, 4.10	Field Observations field form	<i>[Signature]</i>
	FACTs Functional space inventory field form	<i>[Signature]</i>
§4.11	Plumbing inspection field form	<i>[Signature]</i>
	FACTs ISDS field form	NA
§4.12	Contamination migration field form or description	<i>[Signature]</i>
§4.13	Identification of common ventilation systems	<i>[Signature]</i>
§8.11	Description of the sampling procedures and QA/QC	<i>[Signature]</i>
§8.12	Analytical Description and Laboratory QA/QC	<i>[Signature]</i>
§8.13	Location and results of initial sampling with drawings	<i>[Signature]</i>
§8.14	FACTs health and safety procedures in accordance with OSHA	<i>[Signature]</i>
§8.15 - §8.19	These sections are not applicable to a Preliminary Assessment	
§8.20	FACTs Pre-remediation photographs and log	<i>[Signature]</i>
	FACTs Post-remediation photographs and log	NA
§8.21	Industrial Hygienist's SOQ	<i>[Signature]</i>
§8.22	Certification of procedures, results, and variations	<i>[Signature]</i>
§8.23	Mandatory Certification Language	<i>[Signature]</i>
§8.24	Signature Sheet	<i>[Signature]</i>
NA	Analytical Laboratory Reports	<i>[Signature]</i>
	FACTs final document inventory	<i>[Signature]</i>
	FACTs Field Sampling Forms	<i>[Signature]</i>

**Table 1
Inventory of Mandatory Elements and Documentation**

Subject Structure

According to the Arapahoe County Assessor's Office, the *circa* 1963 subject property is approximately 1,848 square feet of occupiable floor space, and the same square footage of attic and the same square footage of crawlspace. Therefore, for regulatory purposes the sampling square footage will be 5,544 square feet.

A general layout of the residential setting is depicted in the May 28, 2013 report.

Review of Law Enforcement Documentation

As part of the PA, FACTs is required by regulation¹ to review available law enforcement documents pertinent to a subject property. During this project, FACTs provided Sheridan Police Department and the Arapahoe County Sheriff's Office with written requests for

¹ 6 CCR 1014-3 (Section 4.2)



information regarding this property. At the time of this Addendum, we have not received a response from either agency.

As such, based on the best available information during this assessment, there are no known law enforcement documents pertaining to controlled substances for this subject property.

Governing Body

Pursuant to statute and regulations, the documentation in this report must be submitted to the “Governing Body” to avail of the statutory liability immunity. For this project, FACTs has arbitrarily identified the *de facto* “Governing Body” as defined in CRS 25-18.5-101 for this property as:

City of Sheridan
Building Department
4101 South Federal Blvd.
Sheridan, CO
Phone: 303-762-2200

Visual Inspection of the Property

As part of the Preliminary Assessment, on May 14, 2013, and then on June 6, 2013, Mr. Caoimhín P. Connell, Forensic Industrial Hygienist with FACTs, performed a visual inspection and sampling of the subject property. Mr. Connell was assisted in the field by Ms. Christine A Carty, Field Technician and Mr. Glenn Hardey, Field Technician.

Mr. Connell’s SOQ is included with this document package.

Ms. Carty received a certificate in Clandestine Drug Lab Safety through the Colorado Regional Community Policing Institute (CRCPI) sponsored by the US Dept. of Justice High Intensity Drug Trafficking Area fund consistent with 29 CFR §1910.120. Ms. Carty has assisted in approximately 260 hours of clandestine drug laboratory training for officers of over 25 Colorado Police Agencies, 20 Sheriff’s Offices, federal agents and probation and parole officers throughout Colorado judicial districts through training provided through the Colorado Department of Public Safety, Division of Criminal Justice.

Mr. Hardey has extensive training in illegal drug laboratories and received a training certificate in Clandestine Drug Laboratory Assessments through the Colorado Regional Community Policing Institute (CRCPI), Colorado Division of Criminal Justice, (sponsored by the US Dept. of Justice High Intensity Drug Trafficking Area fund). Mr. Hardey is further certified in Clandestine Drug Lab entry and processing through the US Drug Enforcement Agency, and received site specific training pursuant to 29 CFR §1910.120. Mr. Hardey, who has approximately 10 years experience as a police officer, has held the position of Patrol Sergeant, and SWAT leader, and was a co-instructor of the 2010 American Industrial Hygiene Association Clandestine Drug Lab Professional Development Course for Industrial Hygienists.



FUNCTIONAL SPACE SUMMARY

During a Preliminary Assessment, the Industrial Hygienist is required by regulation to divide the study area into “Functional Spaces,” and evaluate the potential for contamination in each area. The idea is to segment a property into specific areas which may present different potentials for contamination, based on the anticipated use or function conducted in that area. Thus, functions of bedrooms and bathrooms may be different, kitchens and living rooms, may be different, etc. Pursuant to regulations, a building is divided into such areas based solely on subjective professional judgment with foundational guidance in Federal Regulation.²

A general overview of each space is provided in the following discussion. Indicators are detailed in FACTs form ML5, included in the appendix of this report. For evaluation purposes, the following Functional Spaces have been identified and are addressed below:

Unit Number	Functional Space	Description
3832	1	Living room and back hall with closet
3832	2	Kitchen
3832	3	Bathroom
3832	4	Bedroom
3832	5	Furnace Interior
3830	6	Kitchen
3830	7	Living Room and hall with closets
3830	8	Bathroom
3830	9	Northeast bedroom
3830	10	Northwest bedroom
ALL	11	Attic
3830	12	Furnace interior

Table 2
Functional Space Inventory

Unit 3832

While in this residence, we did not note any particularly remarkable indicators. In general, this residence was better kempt than the other unit assessed this day. Importantly, we did note unusually elevated concentrations of hydrocarbons throughout the residence. During our assessment, we observed total hydrocarbon concentrations of approximately 20 parts per million (20 ppm).³

We were not able to identify the source or pathway of hydrocarbons in the residence during this Preliminary Assessment.

² Asbestos Containing Materials in Schools; Final Rule and Notice, Title 40 CFR Part 763, Fed. Reg. Vol. 52, No. 210, Fri. Oct. 30, 1987

³ MOS sensor reference toluene equivalence.



Functional Space 1: 3832 Living Room Complex

This space includes the living room, laundry closet and hallway. Samples collected from this space indicate a range of contamination results.

Functional Space 2: 3832 Kitchen

Used here as the term is commonly understood. A structural sample collected from this Functional Space indicated a methamphetamine concentration of 2.6 $\mu\text{g}/100\text{cm}^2$.

Functional Space 3: 3832 Bathroom

The Bathroom was a small bathroom as the term is commonly used. The sample collected from this Functional Space indicated a methamphetamine concentration of 0.30 $\mu\text{g}/100\text{cm}^2$.

For all sampling and analytical methods, there is a specific uncertainty associated with the sampling and the analysis. Therefore, for any reported laboratory value, there is a *probability* that the true concentration is greater than the reported value (Upper Confidence Limit, UCL), or less than the reported value (Lower Confidence Limit, LCL). A laboratory result, therefore, represents a *probable* result which lies between two confidence limits and may be depicted thusly:



Figure 1
Confidence Intervals of Reported Values

The reported value from a laboratory (RV) lies somewhere in between two possible “true” values, the UCL and the LCL.

So, in the drawing below, where the reported value (A) and the LCL are greater than the decision threshold (the horizontal line), we are *confident* the reported value indicates noncompliance. Where the reported value (D) and the UCL are less than the decision threshold, we are *confident* the reported value indicates compliance.

However, there is an ambiguous zone of reported values, such as (B), where although the reported value is greater than the decision threshold, there is a probability the true value is less than the decision threshold (this is the limit typically used by regulatory agencies for prosecutorial and enforcement purposes). Similarly, where the reported value is less than the decision threshold, there is a finite probability the true value is greater than the



decision threshold (C) – this is the value used by Industrial Hygienists for decision making.

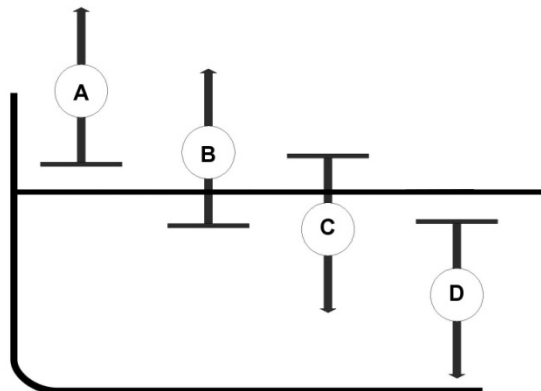


Figure 2
Uncertainty in Reported Values

Standard Industrial Hygiene sampling protocols require that the Industrial Hygienist (IH) consider this degree of uncertainty, known as the total coefficient of variation (Cv_T), for each method. The Cv_T includes the uncertainty associated with both the sampling and analytical processes. For many methods, such as this analysis method, the degree of analytical uncertainty is known and published, and is generally small. However, for field methamphetamine sampling, the statistical uncertainty is generally very large. When we analyze field data from fully characterized properties, we see that the variation of concentrations from the building as a whole usually exhibits a lognormal distribution. As such, geometric standard deviations can be as large as 3.0. This distribution is similar to that reported elsewhere.^{4, 5}

Standard Industrial Hygiene protocols typically use the 95% confidence intervals to determine the possible “spread” of the laboratory results about the true value. As such, where the Cv_T is known, the IH calculates the UCL and LCL and determines if the UCL is greater than or less than the Decision Threshold.

According to State regulations, the decision to remediate or not remediate is based not only on the reported value, but also on the “totality of circumstances” which would include the statistical uncertainty of the results. According to the mandatory language of 6 CCR 1014-3:

⁴ Washington State Department of Health: *Summary Results from a Pilot Study to Evaluate Variability and Distribution of Methamphetamine Residue in Remediated Residential Illegal Drug Labs*, as reported in NIOSH Method 9106 (DRAFT)

⁵ Martyny JW, Arbuckle SL, McCammon CS, Esswein EJ, Erb N, *Chemical Exposures Associated with Clandestine Methamphetamine Laboratories*, (http://www.njc.org/pdf/chemical_exposures.pdf, May 10, 2004).



Decision Statement

If, based on the totality of the circumstances, the consultant finds that insufficient evidence exists to support the hypothesis that any given area is non-compliant, that area shall be deemed to be compliant with section 25-18.5-103 (2), C.R.S., and shall be released. If objective sampling data indicates contamination is less than the cleanup level, that data may be used as *prima facie* evidence that insufficient evidence exists to support the hypothesis that any given area is non-compliant.

In this case, as expected, the sample results exhibit a lognormal distribution.⁶ Therefore, we see very high concentrations, and we also see what appear to be very low concentrations. When we look at the result for the Bathroom, we see that the numerical value of the sample (0.3 µg/100 cm²) is less than the numerical value of the decision threshold (0.5 µg/100 cm²), however, the overwhelming majority of samples are significantly greater than the regulatory threshold. We also see that if we consider the UCL of the reported value of 0.3 µg/100cm², the UCL is greater than the decision threshold.⁷

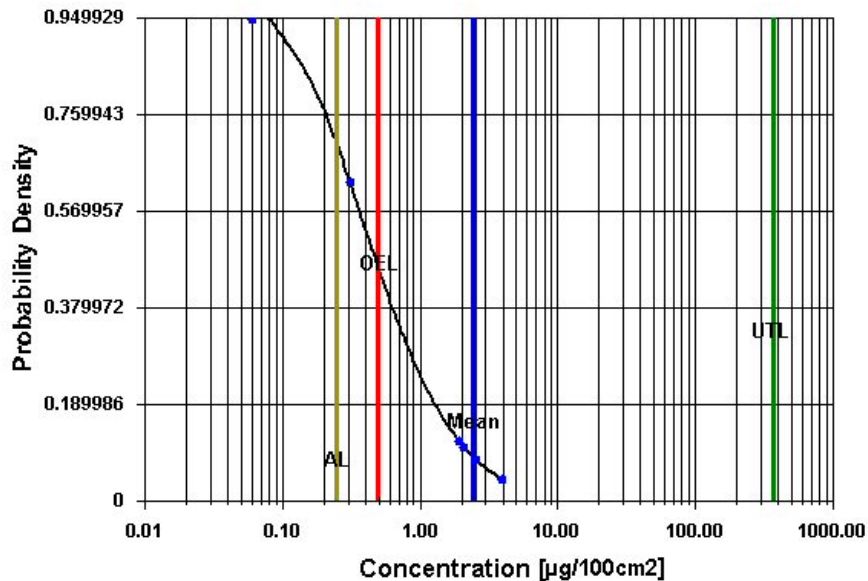


Figure 3
Distribution of Samples Collected from 3832

As such, when we look at the “totality of circumstances” we see there is insufficient evidence to support the primary hypothesis and we therefore accept the null hypothesis and identify this Functional Space as “noncompliant.”

⁶ The one-tail Percentage Point of a Shapiro-Wilks W Test was 0.7880 and the Gaussian distribution was not rejected (0.9379 > 0.7880); However, the lognormal distribution was similarly not rejected (0.8307 > 0.788), however, a Gaussian fit may be better than a lognormal fit (0.9379 > 0.8307)

⁷ The distribution indicates a 95% confidence that the concentration of methamphetamine from randomly selected locations will exceed the decision threshold 86.1% of the time.



Functional Space 4: 3832 Bedroom

This small bedroom, used here as the term is commonly understood, occupies the northwest quadrant of the residence. This Functional Space also includes a closet. The sample collected from this Functional Space (KM060613-04) indicated a methamphetamine concentration of 2 $\mu\text{g}/100\text{cm}^2$.

Functional Space 5: 3832 Furnace System

The Furnace System in the structure is a standard residential forced air system located in the crawlspace with a ducted distribution system throughout the entire residential structure. The sample collected from the furnace interior for this unit (3832 S. Knox Ct.) indicated approximately 4 $\mu\text{g}/100\text{cm}^2$.

Since it is the purpose of the forced air ventilation system to move air throughout the structure, and the furnace conclusively contained elevated concentrations of methamphetamine, we conclude the furnace was an effective mechanism of dissemination of methamphetamine. The results of the furnace sample alone would lead a reasonable person, trained in aspects of methamphetamine laboratories, to conclude the *presence* of widespread elevated methamphetamine contamination throughout the entire occupied space, all other sample results notwithstanding, and in the absence of any sample result for any specific location.

Unit 3830

In general, this residence was in a state of squalor during our site assessment, and contained several conclusive indicators of drug use.

Importantly, we did note unusually elevated concentrations of hydrocarbons throughout the residence. During our assessment, we observed total hydrocarbon concentrations of approximately 48 ppm.⁸ This level suggests that the total hydrocarbons measured in 3832 may have originated in this residence and migrated into 3832.

The levels are sufficiently high to raise an immediate concern about health and safety for the occupants. So much so, that during our assessment, we immediately opened available windows and doors to limit our exposures.

Due to the elevated levels of hydrocarbons, we also monitored the indoor air for two very common clandestine drug laboratory contaminants: acid gases and phosphine. We did not observe measurable concentrations of these two particularly toxic components.

We were not able to identify the source or pathway of hydrocarbons at the residence during this Preliminary Assessment.

⁸ MOS sensor reference toluene equivalence.



Functional Space 6: 3830 Kitchen

Used here as the term is commonly understood. A structural sample collected from this Functional Space indicated a methamphetamine concentration of 4.5 µg/100cm².

Functional Space 7: 3830 Living Room Complex

This space includes the living room and hallway. This space contained marijuana and drug paraphernalia.

Samples collected from this space indicate a range of contamination results. However, the structural sample collected from the southwest corner at the ceiling indicated a methamphetamine concentration of 0.2 µg/100cm².

The samples collected for this residence also exhibited the expected distribution.⁹ When we look at the UCL for this sample, we find that it is approximately, 0.46 µg/100cm². Considering the presence of drug paraphernalia, and the results of chattels (in excess of the regulatory limit), and the elevated concentration of the furnace system for this residence in excess of the regulatory limit, in the totality of circumstances, there is insufficient evidence, to exclude this Functional Space from the remediation process. Therefore, the living room is considered to be non-compliant.

Functional Space 8: 3830 Bathroom

The Bathroom was a small bathroom as the term is commonly used. The sample collected from this Functional Space indicated a methamphetamine concentration of 2 µg/100cm².

Functional Space 9: 3830 Northeast Bedroom

This small bedroom, used here as the term is commonly understood, occupies the northeast quadrant of the residence. This Functional Space also includes a closet. The sample collected from this Functional Space indicated a methamphetamine concentration of approximately 4 µg/100cm². This space also contained marijuana.

Functional Space 10: 3830 Northwest Bedroom

This larger bedroom, used here as the term is commonly understood, occupies the northwest quadrant of the residence. This Functional Space also includes a closet. The sample collected from this Functional Space indicated a methamphetamine concentration of approximately 11 µg/100cm². This space also contained marijuana.

This Functional Space contained the medical oxygen generator used by the occupant. We removed one of the sponge filters from the air intake for the oxygen generator, and attempted to daub a nonregulatory sample from the filter. The sample indicated that the filters contained approximately 0.02 µg of methamphetamine for each cubic centimeter of filter medium (about 2.2 µg/100cm² of cross sectional area).

⁹ The one-tail Shapiro-Wilks percentage point (W Test) = 0.7880; the Gaussian distribution was not rejected (0.8700 > 0.788). Similarly, the lognormal distribution was not rejected (0.8524 > 0.788). However, the Gaussian distribution may be a slightly better fit distribution (0.8700 > 0.8524)



Functional Space 11: Attic

Access into the attic is exclusively from Unit 3830 S. Knox Court. This Functional Space is a large area that is in free communications with the other two units. While standing in the attic, one can readily see openings into the attic from the other two residences (3832 and 3834 S Knox Court).

A sample collected from the top of a duct in the attic indicates a methamphetamine concentration of approximately $4 \mu\text{g}/100\text{cm}^2$. Therefore, this Functional Space cannot be excluded from the remediation process; and is noncompliant.

Functional Space 12: 3830 Furnace System

The Furnace System in 3830 is the only furnace system associated with this structure that is not located in the crawlspace. The furnace system is entirely housed within the interior walls of 3830 S. Knox Court. The forced air system is a standard residential forced air system with a ducted distribution system throughout the entire residence. The sample collected from the furnace interior for this unit (3830 S. Knox Ct.) indicated approximately $3 \mu\text{g}/100\text{cm}^2$.

As already mentioned, since it is the purpose of the forced air ventilation system to move air throughout the structure, and the furnace conclusively contained elevated concentrations of methamphetamine, we conclude the furnace was an effective mechanism of dissemination of methamphetamine. The results of the furnace sample alone would lead a reasonable person, trained in aspects of methamphetamine laboratories, to conclude the *presence* of widespread elevated methamphetamine contamination throughout the entire occupied space, all other sample results notwithstanding, and in the absence of any sample result for any specific location.

CHATELS

During the assessment, we challenged the compliance status of various chattels in both residences.

The results of the samples are not being used to argue compliance. Rather, based on the totality of circumstances, the results confirm widespread contamination. All of the samples were conclusively and definitively greater than the regulatory thresholds, except one.

Sample KM060613-05

Sample KM060613-05 was a composite sample collected from plastic surfaces in Unit 3832 S. Knox Court. The result of the composite sampling indicated a methamphetamine concentration of $0.06 \mu\text{g}/100\text{cm}^2$. The decision threshold for the composite sampling was $0.1 \mu\text{g}/100\text{cm}^2$. Using standard rounding rules, the reported value would be $0.1 \mu\text{g}/100\text{cm}^2$. Calculating the UCL, the result would be even higher.

At no time, did we observe any location that simultaneously resulted in a structural compliance attainment occurring with a chattels compliance attainment.



Based on the totality of circumstances, we do not find sufficient evidence to support the initial hypothesis, and cannot exclude the chattels from the remediation process.

EXTERIOR GROUNDS

See the May 28, 2013 report of the Preliminary Assessment.

SEWERAGE SYSTEM

The sewer system is “city sewer.” During our assessment, FACTs inspected the plumbing system and we presume that some waste materials were introduced into the sewer system. During the inspection we noted minimal damage to the plumbing, and we were able to trace the plumbing lines to the extent where they exited the superstructure. Based on our observations, there was no significant damage to the plumbing system. The plumbing inspection also included measurement of hydrocarbons, acid gases and phosphine in the plumbing. Due to the already elevated concentrations of total hydrocarbons, we were unable to determine the contribution (if any) from the plumbing system.

SAMPLE COLLECTION

Wipe Samples

The surface samples collected during the June 6, 2013, site assessment consisted of both composite samples and discrete samples.

Discrete samples are a single sample collected from a single area, and submitted for analysis as a unique location.

The discrete samples are those samples collected from identical surface areas, surface types and the same functional space, and are presented in a single analysis.

Composite samples, on the other hand, are comprised of multiple individual surfaces that are combined into a single analysis. Strictly speaking, pursuant to regulations, composite samples for personal belongings must be collected from unique functional spaces. In this case, the actual subject areas were extremely small, rendering the whole concept of some of the functional spaces questionable. As it was, we combined the surfaces from different Functional Spaces; however, since none of the samples could be used to demonstrate compliance, the requirement becomes largely moot.

For this Preliminary Assessment, we practiced a type of sampling known as authoritative biased sampling. Based on training and experience, the Industrial Hygienist (Connell) identified each sampling location based on the highest probability of contamination.

Methamphetamine Analysis

Wipe samples were collected in a manner consistent with the intent of State regulations. The wipe sample medium was individually wrapped commercially available Johnson and



Johnson™ brand gauze. Each gauze material was assigned a lot number for quality assurance and quality control (QA/QC) purposes and recorded on a log of results. Each gauze was moistened with reagent grade methyl alcohol. Each batch of alcohol was assigned a lot number for QA/QC purposes and recorded on a log of results. Each proposed sample area was delineated with a measured outline. The ruler used to measure each surface area was decontaminated with a single-use disposable alcohol wipe between samples.

Each wipe sample was collected by methodically wiping the entire surface of the selected area with moderate pressure; first in one direction and then in the opposite direction, folding the gauze to reveal fresh material as necessary. Each sample was returned to its centrifuge tube and capped with a screw-cap. The wipe samples were submitted for analysis to Reservoirs Environmental Laboratories in Denver, CO for analysis by GCMS.

QA/QC Precautions

The sampling media were prepared in small batches in a clean environment (FACTs Corporate Offices). The sample media were inserted into individually identified disposable plastic centrifuge tubes with caps.

Field Blanks

For QA/QC purposes, and in accordance with State requirements, one field blank was submitted for every ten wipe samples. Field blanks were randomly selected from the sampling batch and included with the samples. To ensure the integrity of the blanks, FACTs personnel are unaware, until the actual time of sampling, which specific samples will be selected as blanks. Similarly, to ensure the integrity of the blanks, laboratory personnel are never aware of the presence of the blanks in the analysis batch.

Field Spikes

As part of our general QA/QC protocol, FACTs regularly submits surreptitious spikes to the analyzing laboratory. "Spiked" samples consist of randomly selecting sampling assemblies that are submitted to a third party, independent laboratory for the inclusion of known amounts of methamphetamine into the selected samples. The spiked samples are then submitted with the normal project samples. To ensure the integrity of the spikes, laboratory personnel are unaware of the presence or nature of the spikes. The spikes allow FACTs to determine the adequacy of the laboratory in recovering known amounts of methamphetamine from the samples. Sample results are then corrected to the spike recovery. The historical pooled spike recovery used for this sample suite is 95.6%, ($n=25$ and $2\sigma = 0.19 \mu\text{g}$).

Cross Contamination

Prior to the collection of each specific sample area, the Industrial Hygienist donned fresh surgical gloves, to protect against the possibility of cross contamination.

Prior to entry into the subject property, each member of FACTs donned disposable Tyvek suits.



Collection Rationale

Primary Objective

It is a common misconception that the Industrial Hygienist is required to collect samples during a PA. However, no such requirement exists in Colorado. Rather, regarding samples, the regulations state:

Pre-decontamination sampling

In pre-decontamination sampling, the question that is being asked is “Is there evidence of the presence of methamphetamine production in this area?” The assumption (hypothesis) is that the area is clean i.e. “compliant,” and data will be collected to find support for the hypothesis. Data (such as samples) are collected to “prove” the area is compliant. Sampling, if it is performed, is conducted in the areas potentially containing the highest possible concentrations of contaminants. Any data that disproves the hypothesis, including police records, visual clues of production, storage, or use or documentation of drug paraphernalia being present, is considered conclusive, and leads the consultant to accept the null hypothesis and declare the area non-compliant. The strength of evidence needed to reject the hypothesis is low, and is only that which would lead a reasonable person, trained in aspects of methamphetamine laboratories, to conclude the presence of methamphetamine, its precursors as related to processing, or waste products.

Similarly, there is a misconception that if samples are collected, and the laboratory results are below the value often misinterpreted as the State’s regulatory threshold value (0.5 µg/100 cm²), the samples necessarily indicate that the area is not contaminated and no action is required. However, the regulatory threshold values are exclusively to be used as *prima fascia* evidence during final verification challenges in the absence of all other information. Except, during a final verification or a properly designed Preliminary Assessment, there is no *de minimis* concentration of methamphetamine below which a statement of compliance can be made in the absence of final verification sampling. Although State regulation does not require samples to be collected during a Preliminary Assessment, as part of this Preliminary Assessment, samples were collected.

For this project, FACTs had sufficient information to conclude that the contamination of the subject property was widespread.

Sample Results

Methamphetamine Wipe Sample Results

The samples confirmed that methamphetamine was widespread in each residence including the attic, the crawlspace and personal belongings. The results of the methamphetamine samples are summarized in the table below. The shaded items indicate noncompliance.



Sample ID	Location	Result µg/100cm ²
KM060613-01	3832 Furnace Interior	3.9
KM060613-02	3832 Bathroom top of medicine chest	0.31
KM060613-03	3832 Kitchen top of cabinet	2.6
KM060613-04	3832 Bedroom window frame	2.0
KM060613-05A	3832 TV in bedroom	0.1
KM060613-05B	3832 Living room tool box	
KM060613-05C	3832 Living room TV	
KM060613-05D	3832 Kitchen coffee maker	
KM060613-05E	3832 Living room sofa	
KM060613-06A	3832 Bedroom Dresser	1.9
KM060613-06B	3832 Bedroom night stand	
KM060613-06C	3832 Living room end table	
KM060613-06D	3832 Living room TV stand	
KM060613-06E	3832 Kitchen end table	
KM060613-07	Field Blank	BRL
KM060613-08	3830 Furnace interior	3.3
KM060613-09	3830 Kitchen top of fridge	4.5
KM060613-10	3830 Living room, SW corner at ceiling	0.2
KM060613-11	Field Blank	BRL
KM060613-12	3830 NW Bedroom ceiling fan	11.
KM060613-13	3830 Bathroom top of light fixture	2.
KM060613-14	3830 NE Bedroom top of window frame	3.9
KM060613-15A	3830 Kitchen coffee maker	1.3
KM060613-15B	3830 Living room, top of TV	
KM060613-15C	3830 NW Bedroom, top of TV	
KM060613-15D	3830 NE Bedroom top of blue desk	
KM060613-15E	3830 NE Bedroom top of stool	
KM060613-16A	3830 Living room top of wall clock	2.4
KM060613-16B	3830 Kitchen top of desk	
KM060613-16C	3830 Living room top of W desk	
KM060613-16D	3830 NW Bedroom top of dresser	
KM060613-16E	3830 NE Bedroom top of shelves	
KM060613-17	3830 Oxygen generation filter	2.2
KM060613-18	Attic	3.6

Result and Criterion are expressed as µg/100cm² (Field blank is reported as absolute mass in µg).
BRL indicates the analyte was not detected in the sample.

Table 3
Results of Methamphetamine Wipe Samples

Quality Assurance/Quality Control

The following section is required by regulation and is not intended to be understood by the casual reader.



Regulatory PA Data Set

MDL was not given; LOQ was reported as 0.05 µg/100cm², FACTs recognizes that this information cannot be correct as the LOQ cannot be expressed as µg/100cm² – this is a non fatal typographical error of the analyzing laboratory; MBX <MDL , FACTs recognizes that this information also cannot be correct as the MBX cannot be expressed as µg/100cm² – this is a non fatal error associated with the reporting style of the analyzing laboratory; LCS mass was not given, however, the laboratory reported 104% recovery, RPD was not given. Matrix spike mass was not given, however the recovery was given as 95% (RPD was not given); Matrix spike Dup mass was not given, and the recovery was not given, however the RPD was reported to have been 2%. Surrogate spike recoveries are not given by the laboratory and are unknown. FACTs reagents: MeOH lot # A13Ø1 <MDL for n=6; Gauze lot # G12Ø1 <MDL for n=25.

Sample Locations

Consistent with State Regulations and good sampling theory, the location of the samples was based on professional judgment. In this case, it was FACTs' Industrial Hygienist's professional judgment that authoritative biased sampling would be appropriate.

As such, during this project, the Industrial Hygienist selected those areas which had the highest probability of exhibiting the highest concentrations of contamination. Based on our experience, state of the art information on indoor methamphetamine migration patterns and professional judgment, FACTs selected specific locations throughout the subject property in an attempt to represent the highest possible concentrations of methamphetamine. Each sample area was then delineated with a measured outline.

In the figures that follow, the sample locations have been presented. The drawing is stylized and not intended to be architectural representations and is not to scale. In the diagram, the sample locations are indicated by triangles. The shaded triangles indicate the composited samples for the personal belongings.



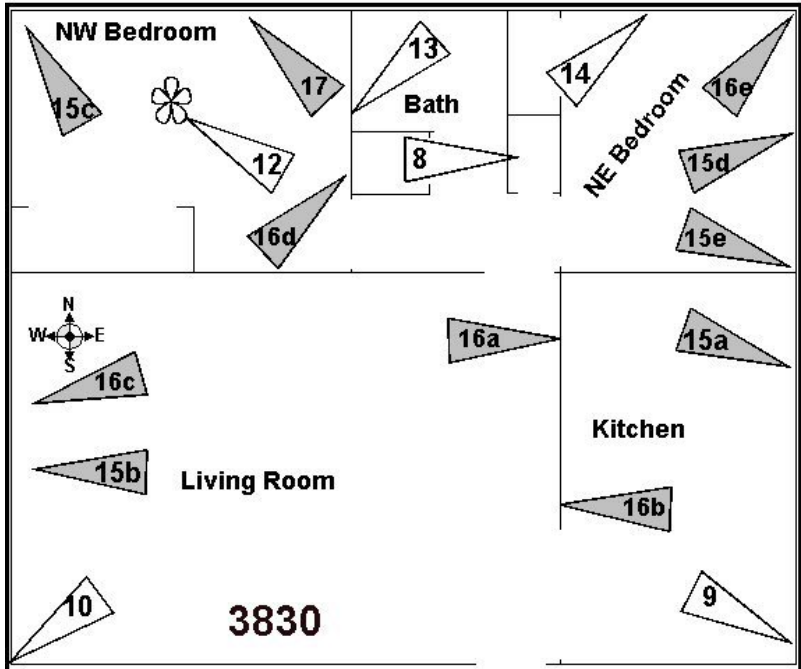


Figure 4
Unit 3830 S Knox Court

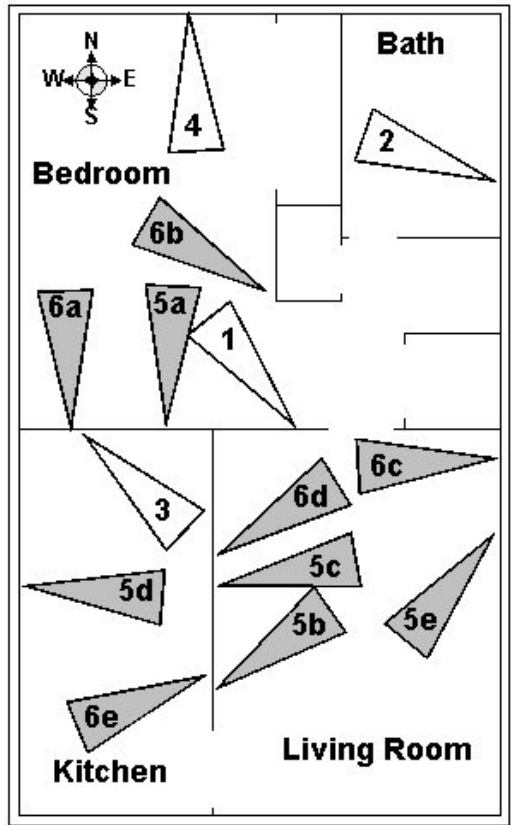


Figure 5
Unit 3832 Sample Locations



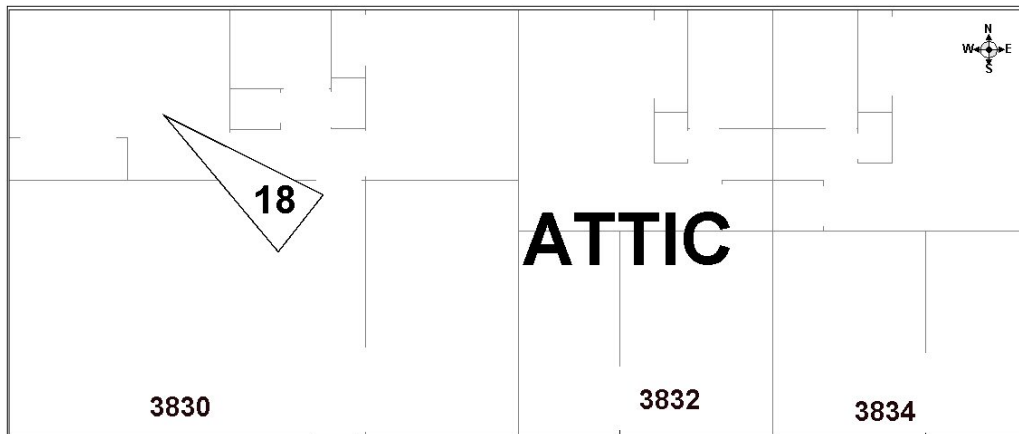


Figure 6
Attic Sample Location

Identification of Cook/Storage Areas

See the May 28, 2013 report.

Identification of Contamination Migration

Based on the best information readily available, FACTs has determined that methamphetamine has migrated throughout the entire structure.

CONCLUSIONS

Based on the totality of the circumstances, including our subjective observations and objective data from sampling, we find that there is insufficient evidence to support the preliminary hypothesis and we accept the null hypothesis and conclude that noncompliant methamphetamine contamination exists throughout the entire superstructure located at 3830, 3832 and 3834 S. Knox Court including the attic, the underlying crawlspace, and all contents.

Universal Site Requirements

See the May 28, 2013 report for Universal Site Requirements as well as specific decontamination requirements. However in light of the widespread contamination, negative pressure may be anywhere in the structure as a whole.

Decontamination should then proceed in a “down-wind” fashion, working toward to the point of negative pressure.

Decontamination of the Chattels

Personal belongings must either be cleaned and tested to confirm compliance, or discarded.

The registered owner along with the occupants needs to come to a negotiated settlement as to what should be decontaminated and what can be replaced, since the costs of



decontamination and verification testing, can far exceed the replacement value of many of the items.

For example, the mattresses may cost several hundreds of dollars more to clean and test than the costs associated with replacement. Similarly, clothing can be merely laundered by the decontamination contractor; however, the cleaning and testing costs are likely to exceed the replacement costs.

Personal items of sentimental value may have a high dollar value due to the fact that they cannot be readily replaced (such as family photos).

At this point, we recommend that the owner of the property engage a remediation contractor, and determine the fees associated with decontamination of individual items, versus the replacement costs for those items.

The following is provided as guidance for the decontamination process:

Due to the elevated concentrations of methamphetamine associated with the property, all surfaces including the crawlspace and the attic must be addressed and decontaminated. Currently, the State of Colorado prohibits encapsulation, and there is no waiver mechanism in place to obtain variances.

Any and all disturbance of asbestos containing materials (ACMs or PACMs) in the subject property must be in accordance with State and Federal Regulations.

The following decontamination process should take place in this order: (any asbestos abatement notwithstanding):

1. Establish negative pressure inside the residence pursuant to State regulations.
2. Exhaust from the negative enclosure may take place at any exterior location.
3. No work, except as needed to establish critical barriers, shall begin until negative pressure is established.
4. Negative pressure must be maintained at all times until final sampling has been completed and the written intent to issue a Decision Statement has been issued to the contractor by the consulting Industrial Hygienist.
5. The contractor should establish a standard, two-chambered decon and/or bag-out/load-out at each front door entrance.
6. Carefully bag and remove all debris and other waste items from the property. Liquid wastes shall be subjected to haz-cat and lab-packed, or neutralized, pursuant to RCRA.



7. An effort shall be made to clean and salvage all personal items belonging to the owners in the residences.
8. The contractor may choose to launder all clothing and soft fabrics onsite. If this is done, then the kitchen of 3830 (laundry room) shall be decontaminated and cleared through sampling first; and thereafter accessed through a controlled tunnel.
9. Following clearance, the laundry room shall be placed under *positive* pressure with a standard HEPA filtered NAM (or alternatively, the negative pressure from the rest of the structure can be used). A positive pressure tunnel shall be constructed from the laundry area to the front door of 3830 for removal of the soft items.
10. All soft fabrics such as draperies and clothing relocated from 3832 to the laundry area of 3830 or otherwise removed for laundering or dry-cleaning or other decontamination off-site, shall be wrapped in poly and transloaded. Following the decontamination, the items may be tested at the off-site location or upon their return. Cleaned items shall be secured in a segregated clean area for final clearance testing. (It may be wise to first decontaminate and clear Unit 3834, and then transload and store all cleaned items in that unit.)
11. The contractor shall make every effort to economically salvage all items of value such as power tools, hand tools, coin collections, jewelry, statuary, high quality electronics and notable furniture. The contractor shall consult with the occupants and the Registered Property owner for guidance on all specific items in which the occupants express interest.
12. Window coverings (window blinds) shall be discarded.
13. The decision concerning decontamination versus discarding all large household appliances (dishwasher, clothes dryer, etc) shall be placed in writing for clarification and documentation by the contractor.
14. Once all items are bagged and/or wrapped, the items can be transported through the airlock and transloaded to the bag-out. At the bag-out, the exterior surfaces of the bags and wrapping should be wiped down; trash items shall be discarded, and decontaminated personal belongings shall be transloaded to a secured storage container (or a previously cleaned and cleared unit).
15. If any textiles or fabrics remain, they shall be subject to final clearance sampling in accordance with standard industrial hygiene microvacuum sampling procedures¹⁰ and the decision criteria shall be 0.5 µg/ 100 cm².

¹⁰ For example, see ASTM Method D 5756-02



16. Following the removal of interior contents, all surfaces in the entire interior space including the attic and the crawlspace, all hanging fixtures, all cabinets (interior and exterior surfaces), all shelving, all floors, doors, hinges, bathtubs, sinks, appliances (interior and exterior surfaces), exterior fireplace, and every other interior surface whether specifically mentioned or not, shall be thoroughly wiped down to remove residual contamination.

17. The contractor is encouraged to propose a new method to salvage the three furnace systems and existing ventilation duct work. Any and all remaining duct work or furnace system components shall be subject to final verification sampling. Any furnace components not cleaned shall be removed and discarded.



APPENDIX A:

SUPPORTING DOCUMENTS





**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.
CLANDESTINE METHAMPHETAMINE LABORATORY
ASSESSMENT FIELD FORMS[©]**

FACTs project name: Knox Court	Form # ML1
Date: June 6, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

PROPERTY DESCRIPTION:

Physical address	3830 South Knox Court 3832 South Knox Court Lakewood, CO 80236-6121 Also listed as: 3830 South Knox Court 3832 South Knox Court Denver, CO 80236-6121	
Legal description or VIN	Parcel #: 2077-05-2-23-004 Neighborhood: West Englewood/Sheridan Industrial Neighborhood Code: 3025 Legal: LOT 4 BLK 10 SHERIDAN 1ST ADD	
Registered Property Owner	Hien Ngo 3834 South Knox Court Lakewood, CO 80236-6121 Also listed as: Hien Ngo 3834 South Knox Court Denver, CO 80236-6121	
Number of structures	One	
Type of Structures	3830 S Knox	750 Square feet
	3832 S Knox	500 Square feet
Adjacent and/or surrounding properties	North: Single family residence South: Single family residence East: Residential yard and alley West: Street front	
General Property Observations	3830 S Knox: Poorly maintained residence 3832 S Knox: Tidy and maintained residence	
Presumed Production Method	Pseudoephedrine reduction	

PLUMBING INSPECTION AND INVENTORY

FACTs project name: 3832 Knox Court	Form # ML2
Date: June 6, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

Functional Space	Room	Fixture	Indicia?	Comments
3	Bathroom # 1	Bath	N	No comment
3	Bathroom # 1	Shower	N	No comment
3	Bathroom # 1	Sink 1	N	No comment
3	Bathroom # 1	Toilet	N	No comment
2	Kitchen	Dishwasher	NA	None present
2	Kitchen	East Sink	N	No comment
2	Kitchen	West Sink	N	No comment
NA	Laundry Room	Slop sink	NA	None present
NA	Laundry Room	Washing machine	NA	None present

THIS SPACE IS BLANK

VENTILATION INSPECTION AND INVENTORY

Item	Y/N	Comments
Isolated AHU?	N	Communication through attic and crawlspace
Common air intake?	Y	Crawlspace
Common bathroom exhausts?	N	Ducted to exterior
Forced air system?	Y	No comment
Steam heat?	N	NA
Common ducts to other properties?	N	NA
Passive plena to other properties?	Y	Attic and crawlspace
Active returns to other properties?	N	NA
Passive wall grilles to other properties?	Y	Attic and crawlspace
Industrial ventilation?	N	NA
Residential ventilation?	Y	Contaminated
Pressurized structure?	N	NA



FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

PLUMBING INSPECTION AND INVENTORY

FACTs project name: 3830 Knox Court	Form # ML2
Date: June 6, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

Functional Space	Room	Fixture	Indicia?	Comments
8	Bathroom # 1	Bath	N	No comment
8	Bathroom # 1	Shower	N	No comment
8	Bathroom # 1	Sink 1	N	No comment
8	Bathroom # 1	Toilet	N	No comment
6	Kitchen	Dishwasher	N	No comment
6	Kitchen	East Sink	N	No comment
6	Kitchen	West Sink	N	No comment
6	Laundry Room	Slop sink	NA	None present
6	Laundry Room	Washing machine	NA	No comment

THIS SPACE IS BLANK

VENTILATION INSPECTION AND INVENTORY

Item	Y/N	Comments
Isolated AHU?	N	Communication through attic and crawlspace
Common air intake?	Y	Crawlspace
Common bathroom exhausts?	N	Ducted to exterior
Forced air system?	Y	No comment
Steam heat?	N	NA
Common ducts to other properties?	N	NA
Passive plena to other properties?	Y	Attic and crawlspace
Active returns to other properties?	N	NA
Passive wall grilles to other properties?	Y	Attic and crawlspace
Industrial ventilation?	N	NA
Residential ventilation?	Y	Contaminated
Pressurized structure?	N	NA



FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

FUNCTIONAL SPACE INVENTORY

FACTs project name: Knox Court	Form # ML3
Date: June 6, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

Structure Number	Functional Space Number	Indicia (Y/N)	Describe the functional space (See drawings for delineating structural features)
3832	1	Y	Living room and back hall with closet
3832	2	Y	Kitchen
3832	3	Y	Bathroom
3832	4	Y	Bedroom
3832	5	Y	Furnace Interior
3830	6	Y	Kitchen
3830	7	Y	Living Room and hall with closets
3830	8	Y	Bathroom
3830	9	Y	Northeast bedroom
3830	10	Y	Northwest bedroom
ALL	11	Y	Attic
3830	12	Y	Furnace interior

THIS SPACE IS BLANK



LAW ENFORCEMENT DOCUMENTATION

FACTs project name: Knox Court	Form # ML4
Date: June 6, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

Inventory of Reviewed Documents	No response from Law Enforcement
Described method(s) of production	No response from Law Enforcement
Chemicals identified by the LEA as being present	No response from Law Enforcement
Cooking areas identified	No response from Law Enforcement
Chemical storage areas identified	No response from Law Enforcement
LE Observation on areas of contamination or waste disposal	No response from Law Enforcement





FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

June 6, 2013

Arapahoe County Sheriff's Office
Arapahoe County Government
13101 E. Broncos Parkway
Centennial, CO 80112

Via Fax: 720-874-4060

Dear Investigations:

Forensic Applications, Inc. has been contracted to perform a "Preliminary Assessment" an illegal clandestine drug lab pursuant to Colorado Board Of Health Regulations 6-CCR-1014-3, and CRS §25-18.5-101 *et seq.* The property is located in the City of Sheridan at:

3830, 3832 and 3834 S. Knox Court, Lakewood CO

As you are aware, as part of that assessment, the Industrial Hygienist is required by regulation (6-CCR-1014-3 (§4.2)) to review available Law Enforcement documents associated with the property. Generally, we initially do not require copies of any documents; and, if preferable, we can visit the records offices and review available information there.

We would like to review any narratives regarding controlled substances or hazardous materials responses, or speak with any Law Enforcement personnel who may be familiar with drug related activity at the property. We are only interested in issues involving controlled substances or hazardous materials responses in the last five years. If no such records are available please let us know and we will merely make that notation in our report to the Town of Sheridan and the Tri-county Health Department

Forensic Applications takes extreme caution to protect all Law Enforcement Sensitive information. When requested by the Law Enforcement Agency, we do NOT reveal names, document identities, or include any information considered sensitive by an investigating agency. We have developed a close working relationship with Police Departments state-wide, and we value the close working relationship the Law Enforcement community has extended on other properties. I have included my SOQ. Please feel free to call me directly with any comments or questions.

Pursuant to CRS §24-72-305.5, I affirm that upon receipt of requested records of official actions and/or criminal justice records from the Arapahoe County SO, such records shall not be used for the direct solicitation of business for pecuniary gain.

Sincerely,

Caoimhín P. Connell
Forensic Industrial Hygienist

Successful transmission to 17208744060. Re: 3830 through 3834 S Knox Drug Lab

Thursday, June 6, 2013 4:18 PM

"send@mail.efax.com" <send@mail.efax.com>
[Add sender to Contacts](#)

From:

admin@forensic-applications.com

To:



Dear Caoimhín P. Connell,

Re: 3830 through 3834 S Knox Drug Lab

The 3 page fax you sent through eFax.com to 17208744060 was successfully transmitted at 2013-06-06 22:18:06 (GMT).

The length of transmission was 144 seconds.

The receiving machine's fax ID: 3037948721.

Best Regards,

If you need additional assistance, please visit our online help center at <http://www.efax.com/help/>. Thank you for using the eFax service.

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Customer Service
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Email: help@mail.efax.com



FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.



FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

June 6, 2013

Sheridan Police Department
Records/Investigations
4101 S. Federal Blvd.
Sheridan, CO 80110-5399

Via Fax: 303-438-3399

Dear Investigations/Records

Forensic Applications, Inc. has been contracted to perform a "Preliminary Assessment" an illegal clandestine drug lab pursuant to Colorado Board Of Health Regulations 6-CCR-1014-3, and CRS §25-18.5-101 *et seq.* The property is located in the City of Sheridan at:

3830, 3832 and 3834 S. Knox Court, Lakewood CO

As you are aware, as part of that assessment, the Industrial Hygienist is required by regulation (6-CCR-1014-3 (§4.2)) to review available Law Enforcement documents associated with the property. Generally, we initially do not require copies of any documents; and, if preferable, we can visit the records offices and review available information there.

We would like to review any narratives regarding controlled substances or hazardous materials responses, or speak with any Law Enforcement personnel who may be familiar with drug related activity at the property. We are only interested in issues involving controlled substances or hazardous materials responses in the last five years. If no such records are available please let us know and we will merely make that notation in our report to the Town of Sheridan and the Tri-county Health Department

Forensic Applications takes extreme caution to protect all Law Enforcement Sensitive information. When requested by the Law Enforcement Agency, we do NOT reveal names, document identities, or include any information considered sensitive by an investigating agency. We have developed a close working relationship with Police Departments state-wide, and we value the close working relationship the Law Enforcement community has extended on other properties. I have included my SOQ. Please feel free to call me directly with any comments or questions. Please invoice us with any fees associated with the request.

Pursuant to CRS §24-72-305.5, I affirm that upon receipt of requested records of official actions and/or criminal justice records from the Sheridan Police Department, such records shall not be used for the direct solicitation of business for pecuniary gain.

Sincerely,

Caoimhín P. Connell
Forensic Industrial Hygienist

Successful transmission to 13034383399. Re: 3830 through 3834 S Knox Ct - SPD

Thursday, June 6, 2013 4:28 PM

"send@mail.efax.com" <send@mail.efax.com>
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From:

admin@forensic-applications.com

To:



Dear Caoimhín P. Connell,

Re: 3830 through 3834 S Knox Ct - SPD

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Email: help@mail.efax.com



FIELD OBSERVATIONS

FACTs project name: Knox Court	Form # ML5
Date: June 6, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

Structure:

Indicator	Functional Space	Indicator	Functional Space
Acids	①	Match components	No comment
Aerosol cans	①	Mercury	No comment
Alcohols (MeOH, EtOH)	①	Methamphetamine	All Areas
Ammonia	No comment	Modified coolers/containers	No comment
Ammunition	No comment	Modified electrical	No comment
Artistic expressions	No	Modified plumbing	No comment
Bags of salt	No comment	Modified structure	No comment
Bases	No comment	Modified ventilation	No comment
Basters/Pipettes	No comment	Needles/Syringes	No comment
Batteries	No comment	OTC Containers	①
Bi-phasic wastes	No comment	OTC drugs	①
Booby traps	No comment	pH papers/indicators	No comment
Bullet holes	No comment	Phenyl-2-propanone	No comment
Burn marks	No comment	Pornography, Sex toys	No comment
Cat litter	①	Prescription drugs	No comment
Chemical storage	①	Presence of cats	All of 3830
Colored wastes	No comment	Propane bottles	No comment
Corrosion on surfaces	①	Pseudoephedrine	No comment
Death bag	No comment	Red P	No comment
Delaminating paint	No comment	Red Staining	No comment
Drug paraphernalia	7,9,10	Reserved	NA
Empty OTC Containers	①	Salters	No comment
Ephedrine	No comment	Security devices	No comment
Feces	4,7,9,10	Signs of violence	10
Filters	①	Smoke detectors disabled	No comment
Forced entry marks	6	Solvents - (organic)	①
Funnels	①	Squalor	6,7,8,9,10
Gang markings	No comment	Staining on floors	6,7,8,9,10
Gas cylinders	No comment	Staining on walls or ceiling	6,7,8,9,10
Gerry cans	No comment	Stash holes	No comment
Glassware	①	Taping on surfaces	No comment
Graffiti	No comment	Tubing	No comment
Heating mantle/hot plate	No comment	Urine containers	No comment
Hidden items	No comment	Wall anchors	4
Hydrogen peroxide	No comment	Wall coverings	No comment
Iodine	No comment	Wall damage	No comment
Lead	No comment	Weapons	No comment
Lithium	No comment	Window block material	6
Marijuana	7,9,10	Yellow staining	1-4, 6,7-10

- ① Present but not as indicia
- ② Copious or unusual quantities
- ③ Present in normal household expectations
- ④ Modified in manner consistent with clanlab use



CONTAMINANT MIGRATION OBSERVATIONS

FACTs project name: Knox	Form # ML6
Date: June 6, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

See body of report

DRAWING OF COOK AREA(S)

FACTs project name: Knox	Form # ML10
Date: June 6, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

See Body of report

DRAWING OF STORAGE/DISPOSAL AREA(S)

FACTs project name: Knox	Form # ML11
Date: June 6, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

See Body of report

DRAWING OF GENERAL LAB AREA

FACTs project name: Knox	Form # ML12
Date: June 6, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

See Body of report



INDIVIDUAL SEWAGE DISPOSAL SYSTEM FIELD FORM

FACTs project name: Knox Court	Form # ML7
Date: June 6, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

	Yes	No	N/C
Does the property have an ISDS		X	
Is there unusual staining around internal drains	X		
Are solvent odors present from the internal drains		X	
Is there evidence of wastes being disposed down internal drains	X		
Are solvent odors present from the external sewer drain stacks			X
Was the septic tank lid(s) accessible	NA		
Was the leach field line accessible			
Was the septic tank or leach field lines opened			
Are solvent odors present from the leach field lines (if "yes" see below)			
Are solvent odors present from the septic tank (if "yes" see below)			
Is "slick" present in the septic tank			
Are biphasic (aqueous-organic) layers present in the septic tank			
Was pH measured in the septic tank			
Were organic vapors measured in the septic tank (if "yes" see below)			
Is sampling of the ISDS warranted			
Were calawasi/drum thief samples collected from the septic tank			

*NC = Not checked

Qualitative Organic Vapor Monitoring

Instrument Type	Make and Model
Hydrocarbon detector	EnMet Target Series, MOS detector
pH Strips	Baker Industries

Location	MOS*	PID*	FID*
3832 Throughout – all locations	20 ppm	NA	
3830 Throughout – all locations	42 ppm		

*Units of measurement are in parts per million equivalents compared to the toluene calibration vapor. Detection limit 1 ppm

Locator Notes:

No location required for this property



PRE-REMEDATION PHOTOGRAPH LOG SHEET

FACTs project name: Knox Court	Form # ML8
Date: June 6, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

3830 S. Knox Court

Name ▲	Date Picture Taken	Name ▲	Date Picture Taken
3830-32-34 Knox	6/6/2013 9:33 AM	Gloves	6/6/2013 11:42 AM
3830-32-34 Knox (2)	6/6/2013 9:33 AM	Hall	6/6/2013 10:30 AM
3830-32-34 Knox (3)	6/6/2013 9:40 AM	Hall (2)	6/6/2013 10:30 AM
3830-32-34 Knox (4)	6/6/2013 9:40 AM	Hall (3)	6/6/2013 10:45 AM
3830 front door	6/6/2013 10:25 AM	Hall (4)	6/6/2013 11:25 AM
3830 front door (2)	6/6/2013 10:25 AM	Kitchen	6/6/2013 10:27 AM
3832	6/6/2013 9:41 AM	Kitchen (2)	6/6/2013 10:27 AM
3832 (2)	6/6/2013 9:41 AM	Kitchen (3)	6/6/2013 10:27 AM
Attic	6/6/2013 11:26 AM	Kitchen (4)	6/6/2013 10:27 AM
Attic (2)	6/6/2013 11:26 AM	Kitchen (5)	6/6/2013 10:27 AM
Attic (3)	6/6/2013 11:26 AM	Kitchen (6)	6/6/2013 10:27 AM
Attic (4)	6/6/2013 11:26 AM	LivingRm	6/6/2013 10:26 AM
Attic (5)	6/6/2013 11:27 AM	LivingRm (2)	6/6/2013 10:26 AM
Bath	6/6/2013 10:55 AM	LivingRm (3)	6/6/2013 10:27 AM
Bath (2)	6/6/2013 10:55 AM	LivingRm (4)	6/6/2013 10:28 AM
Bath (3)	6/6/2013 10:56 AM	LivingRm (5)	6/6/2013 10:28 AM
BRH Test	6/6/2013 10:43 AM	LivingRm (6)	6/6/2013 10:30 AM
BRH Test (2)	6/6/2013 10:44 AM	Plumbing	6/6/2013 11:21 AM
BRH Test (3)	6/6/2013 10:44 AM	plumbing (2)	6/6/2013 11:21 AM
BRH Test (4)	6/6/2013 10:44 AM	Plumbing (3)	6/6/2013 11:21 AM
BRH Test (5)	6/6/2013 11:38 AM	Plumbing (4)	6/6/2013 11:21 AM
BRH Test (6)	6/6/2013 11:38 AM	Plumbing (5)	6/6/2013 11:21 AM
BRH Test (7)	6/6/2013 11:38 AM	Plumbing (6)	6/6/2013 11:22 AM
E Bdrm	6/6/2013 10:39 AM	Plumbing (7)	6/6/2013 11:22 AM
E Bdrm (2)	6/6/2013 10:39 AM	Plumbing (8)	6/6/2013 11:22 AM
E Bdrm (3)	6/6/2013 10:39 AM	Sample 08	6/6/2013 10:28 AM
E Bdrm (4)	6/6/2013 10:39 AM	Sample 08 (2)	6/6/2013 10:31 AM
E Bdrm (5)	6/6/2013 10:39 AM	Sample 08 (3)	6/6/2013 10:31 AM
E Bdrm (6)	6/6/2013 10:40 AM	Sample 08 (4)	6/6/2013 10:31 AM
E bdrm (7)	6/6/2013 10:40 AM	Sample 09	6/6/2013 10:35 AM
Exterior	6/6/2013 9:40 AM	Sample 09 (2)	6/6/2013 10:36 AM
Exterior (2)	6/6/2013 9:41 AM	Sample 09 (3)	6/6/2013 10:36 AM
Furnace closet	6/6/2013 10:28 AM	Sample 10	6/6/2013 10:40 AM
Furnace closet (2)	6/6/2013 10:28 AM	Sample 10 (2)	6/6/2013 10:41 AM



PRE-REMEDATION PHOTOGRAPH LOG SHEET

FACTs project name: Knox Court	Form # ML8
Date: June 6, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

3830 S. Knox Court

Name ▲	Date Picture Taken	Name ▲	Date Picture Taken
Sample 10 (3)	6/6/2013 10:42 AM	Sample 16 comp (8)	6/6/2013 11:31 AM
Sample 10 (4)	6/6/2013 10:42 AM	sample 16 comp (9)	6/6/2013 11:31 AM
Sample 10 (5)	6/6/2013 10:43 AM	Sample 16 comp (10)	6/6/2013 11:31 AM
Sample 12	6/6/2013 10:49 AM	Sample 16 comp (11)	6/6/2013 11:32 AM
Sample 12 (2)	6/6/2013 10:51 AM	Sample 16 comp (12)	6/6/2013 11:32 AM
Sample 12 (3)	6/6/2013 10:52 AM	Sample 16 comp (13)	6/6/2013 11:32 AM
Sample 12 (4)	6/6/2013 10:52 AM	Sample 17	6/6/2013 11:33 AM
Sample 13	6/6/2013 10:55 AM	Sample 17 (2)	6/6/2013 11:33 AM
Sample 13 (2)	6/6/2013 11:00 AM	Sample 17 (3)	6/6/2013 11:34 AM
Sample 13 (3)	6/6/2013 11:00 AM	Sample 18	6/6/2013 11:27 AM
Sample 13 (4)	6/6/2013 11:00 AM	Sample 18 (2)	6/6/2013 11:27 AM
Sample 13 (5)	6/6/2013 11:01 AM	Sample 18 (3)	6/6/2013 11:27 AM
Sample 14	6/6/2013 11:12 AM	Sample 18 (4)	6/6/2013 11:34 AM
Sample 14 (2)	6/6/2013 11:12 AM	W Bdrm	6/6/2013 10:29 AM
Sample 14 (3)	6/6/2013 11:13 AM	W Bdrm (2)	6/6/2013 10:29 AM
Sample 14 (4)	6/6/2013 11:13 AM	W Bdrm (3)	6/6/2013 10:29 AM
Sample 14 (5)	6/6/2013 11:13 AM	W Bdrm (4)	6/6/2013 10:29 AM
Sample 15 comp	6/6/2013 11:40 AM	W Bdrm (5)	6/6/2013 10:29 AM
Sample 15 comp (2)	6/6/2013 11:40 AM	W Bdrm (6)	6/6/2013 10:29 AM
Sample 15 comp (3)	6/6/2013 11:40 AM	W Bdrm (7)	6/6/2013 10:29 AM
Sample 15 comp (4)	6/6/2013 11:40 AM	W bdrm (8)	6/6/2013 10:29 AM
Sample 15 comp (5)	6/6/2013 11:40 AM		
Sample 15 comp (6)	6/6/2013 11:41 AM		
Sample 15 comp (7)	6/6/2013 11:41 AM		
Sample 15 comp (8)	6/6/2013 11:41 AM		
Sample 15 comp (9)	6/6/2013 11:42 AM		
Sample 15 comp (10)	6/6/2013 11:42 AM		
Sample 16 Comp	6/6/2013 11:25 AM		
Sample 16 Comp (2)	6/6/2013 11:26 AM		
Sample 16 Comp (3)	6/6/2013 11:29 AM		
Sample 16 comp (4)	6/6/2013 11:29 AM		
Sample 16 comp (5)	6/6/2013 11:30 AM		
Sample 16 comp (6)	6/6/2013 11:30 AM		
Sample 16 comp (7)	6/6/2013 11:30 AM		



PRE-REMEDICATION PHOTOGRAPH LOG SHEET

FACTs project name: Knox Court	Form # ML8
Date: June 6, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

3832 S. Knox Court

Name ▲	Date Picture Taken	Name ▲	Date Picture Taken
3832 front door	6/6/2013 9:41 AM	LivingRm (3)	6/6/2013 9:42 AM
3832 front door (2)	6/6/2013 9:41 AM	LivingRm (4)	6/6/2013 9:43 AM
3832 Front Door (3)	6/6/2013 9:53 AM	LivingRm (5)	6/6/2013 9:43 AM
Bath	6/6/2013 9:44 AM	LivingRm (6)	6/6/2013 9:44 AM
Bath (2)	6/6/2013 9:44 AM	LivingRm (7)	6/6/2013 9:51 AM
Bath (3)	6/6/2013 9:44 AM	Plumbing	6/6/2013 10:10 AM
Bath (4)	6/6/2013 9:44 AM	Plumbing (2)	6/6/2013 10:10 AM
Bath (5)	6/6/2013 9:44 AM	Plumbing (3)	6/6/2013 10:10 AM
Bath (6)	6/6/2013 9:44 AM	Plumbing (4)	6/6/2013 10:10 AM
Bath (7)	6/6/2013 9:43 AM	Plumbing (5)	6/6/2013 10:10 AM
BdRm	6/6/2013 9:44 AM	Plumbing (6)	6/6/2013 10:11 AM
BdRm (2)	6/6/2013 9:44 AM	Plumbing (7)	6/6/2013 10:11 AM
BdRm (3)	6/6/2013 9:45 AM	Plumbing (8)	6/6/2013 10:11 AM
BdRm (4)	6/6/2013 9:45 AM	Plumbing (9)	6/6/2013 10:11 AM
BdRm (5)	6/6/2013 9:45 AM	Sample 01	6/6/2013 9:46 AM
BdRm (6)	6/6/2013 9:45 AM	Sample 01 (2)	6/6/2013 9:46 AM
BdRm Closet	6/6/2013 9:45 AM	Sample 01 (3)	6/6/2013 9:46 AM
BdRm Closet (2)	6/6/2013 9:45 AM	Sample 01 (4)	6/6/2013 9:46 AM
BdRm Closet (3)	6/6/2013 9:45 AM	Sample 01 (5)	6/6/2013 9:46 AM
BdRm Closet (4)	6/6/2013 9:45 AM	Sample 02	6/6/2013 9:51 AM
Exterior	6/6/2013 10:25 AM	Sample 02 (2)	6/6/2013 9:52 AM
Gloves	6/6/2013 10:22 AM	Sample 02 (3)	6/6/2013 9:52 AM
Hall closet	6/6/2013 9:44 AM	Sample 03	6/6/2013 9:54 AM
HallCloset	6/6/2013 9:43 AM	Sample 03 (2)	6/6/2013 9:55 AM
HallCloset (2)	6/6/2013 9:43 AM	Sample 03 (3)	6/6/2013 9:55 AM
HallCloset (3)	6/6/2013 9:44 AM	Sample 03 (4)	6/6/2013 9:55 AM
HotWater closet	6/6/2013 9:43 AM	Sample 04	6/6/2013 9:58 AM
HotWater closet (2)	6/6/2013 9:43 AM	Sample 04 (2)	6/6/2013 10:00 AM
kitchen	6/6/2013 9:41 AM	Sample 04 (3)	6/6/2013 10:01 AM
Kitchen (2)	6/6/2013 9:42 AM	Sample 04 (4)	6/6/2013 10:02 AM
Kitchen (3)	6/6/2013 9:42 AM	Sample 04 (6)	6/6/2013 10:02 AM
Kitchen (4)	6/6/2013 9:42 AM	Sample 05 Comp	6/6/2013 10:06 AM
LivingRm	6/6/2013 9:42 AM	Sample 05 Comp (2)	6/6/2013 10:09 AM
LivingRm (2)	6/6/2013 9:42 AM	Sample 05 Comp (3)	6/6/2013 10:09 AM



PRE-REMEDATION PHOTOGRAPH LOG SHEET

FACTs project name: Knox Court	Form # ML8
Date: June 6, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

3832 S. Knox Court



Name ▲	Date Picture Taken
Sample 05 Comp (4)	6/6/2013 10:10 AM
Sample 05 Comp (5)	6/6/2013 10:10 AM
Sample 05 Comp (6)	6/6/2013 10:11 AM
Sample 05 Comp (7)	6/6/2013 10:11 AM
Sample 05 comp (8)	6/6/2013 10:11 AM
Sample 05 Comp (9)	6/6/2013 10:11 AM
Sample 05 comp (10)	6/6/2013 10:12 AM
Sample 05 Comp (11)	6/6/2013 10:12 AM
Sample 05 Comp (12)	6/6/2013 10:12 AM
Sample 06 Comp	6/6/2013 10:19 AM
Sample 06 Comp (2)	6/6/2013 10:19 AM
Sample 06 Comp (3)	6/6/2013 10:19 AM
Sample 06 Comp (4)	6/6/2013 10:20 AM
Sample 06 Comp (5)	6/6/2013 10:20 AM
Sample 06 Comp (6)	6/6/2013 10:20 AM
Sample 06 Comp (7)	6/6/2013 10:21 AM
Sample 06 Comp (8)	6/6/2013 10:21 AM
Sample 06 Comp (9)	6/6/2013 10:21 AM
Sample 06 Comp (10)	6/6/2013 10:21 AM
Sample 06 Comp (11)	6/6/2013 10:22 AM
Sample 06 Comp (12)	6/6/2013 10:22 AM
Sample 06 Comp (13)	6/6/2013 10:22 AM



CERTIFICATION, VARIATIONS AND SIGNATURE SHEET

FACTs project name: Knox Court	Form # ML14
Date: June 6, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

Certification

Statement	Signature
I do hereby certify that I conducted a preliminary assessment of the subject property in accordance with 6 CCR 1014-3, § 4.	
I do hereby certify that the property has been decontaminated in accordance with the procedures set forth in 6 CCR 1014-3, § 5.	XXXXXXXXXXXXXXXXXX
I do hereby certify that I conducted post-decontamination clearance sampling in accordance with 6 CCR 1014-3, §6.	
I do hereby certify that the cleanup standards established by 6 CCR 1014-3, § 7 have been met as evidenced by testing I conducted.	
I do hereby certify that the analytical results reported here are faithfully reproduced.	

In the section below, describe any variations from the standard.

Composites were collected from mixed Functional Spaces, however, none of the composite samples were used for regulatory compliance. Therefore, no known deviation of standard actually occurred.

MANDATORY LANGUAGE PURSUANT TO 6 CCR 1014-3 (§8.23 AND §8.24)

I do hereby certify that I conducted a preliminary assessment of the subject property in accordance with 6 CCR 1014-3, § 4. ~~I further certify that the cleanup standards established by 6 CCR 1014-3, § 7 have been met as evidenced by testing I conducted.~~

Signature 

Date: June 10, 2013





**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.
CONSULTANT STATEMENT OF QUALIFICATIONS**

(as required by State Board of Health Regulations 6 CCR 1014-3 Section 8.21)

FACTs project name:	Knox Court	Form # ML15
Date	June 10, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH	

Caoimhín P. Connell, has been involved in clandestine drug lab investigations since 2002 and meets the Colorado Revised Statutes §24-30-1402 definition of an "Industrial Hygienist." He has been a practicing Industrial Hygienist in the State of Colorado since 1987 and is the contract Industrial Hygienist for the National Center for Atmospheric Research. Mr. Connell is a recognized authority in drug-lab operations and is a Certified Instructor in Meth-Lab Safety through the Colorado Regional Community Policing Institute (Colorado Department of Public Safety, Division of Criminal Justice). Mr. Connell was the lead instructor for the Colorado Division of Criminal Justice and has provided over 260 hours of methlab training for officers of over 25 Colorado Police agencies, 20 Sheriff's Offices, federal agents and probation and parole officers throughout Colorado judicial districts. He has provided meth-lab lectures to prestigious organizations such as the County Sheriff's of Colorado, the American Industrial Hygiene Association, US Air Force, and the National Safety Council.

Mr. Connell is Colorado's only private consulting Industrial Hygienist certified by the Office of National Drug Control Policy High Intensity Drug Trafficking Area Clandestine Drug Lab Safety Program, and P.O.S.T. certified by the Colorado Department of Law; he is a member of the Colorado Drug Investigators Association, the American Industrial Hygiene Association (where he serves on the Clandestine Drug Lab Work Group), the American Conference of Governmental Industrial Hygienists and the Occupational Hygiene Society of Ireland. From 2009, as a law enforcement officer representing his agency, Mr. Connell served as the Industrial Hygiene Subject Matter Expert on the Federally funded Interagency Board (www.IAB.gov) Health, Medical, and Responder Safety SubGroup, and was elected full member of the IAB-HMRS in 2011, and he conducted the May, 2010, AIHA Clandestine Drug Lab Course.

He has received over 144 hours of highly specialized law-enforcement sensitive training in meth-labs and clan-labs (including manufacturing and identification of booby-traps commonly found at meth-labs) through the Iowa National Guard/Midwest Counterdrug Training Center and the Florida National Guard/Multijurisdictional Counterdrug Task Force, St. Petersburg College as well as through the US NHTSA, and the U.S. Bureau of Justice Assistance (US Dept. of Justice). Additionally, he received extensive training in the Colorado Revised Statutes, including Title 18, Article 18 "Uniform Controlled Substances Act of 1992" and is currently ARIDE Certified.

Mr. Connell is a current law enforcement officer in the State of Colorado, who has conducted clandestine laboratory investigations and performed risk, contamination, hazard and exposure assessments from both the law enforcement (criminal) perspective, and from the civil perspective in residences, apartments, motor vehicles, and condominiums. Mr. Connell has conducted over 362 assessments of illegal drug labs in Colorado, Nebraska and Oklahoma, and collected over 3,315 samples during assessments (a detailed list of drug lab experience is available on the web at):

<http://forensic-applications.com/meth/DrugLabExperience2.pdf>

He has extensive experience performing assessments pursuant to the Colorado meth-lab regulation, 6 CCR 1014-3, (State Board Of Health *Regulations Pertaining to the Cleanup of Methamphetamine Laboratories*) and was an original team member on two of the legislative working-groups which wrote the regulations for the State of Colorado. Mr. Connell was the primary contributing author of Appendix A (*Sampling Methods And Procedures*) and Attachment to Appendix A (*Sampling Methods And Procedures Sampling Theory*) of the Colorado regulations and a Recommended Peer Review Expert for the U.S. NIOSH 9109 Method, *Methamphetamine*. He has provided expert witness testimony in several criminal cases including Grand Jury testimony and testimony for US Bureau ATF and he testified before the Colorado Board of Health and Colorado Legislature Judicial Committee regarding methlab issues. Mr. Connell has provided services to private consumers, Indian Nations, State Investigators, and Federal Investigators with forensic services and arguments against corrupt regulators, fraudulent industrial hygienists, and unauthorized consultants performing invalid methlab assessments.

Mr. Connell, who is a committee member of the ASTM International Forensic Sciences Committee, was the sole sponsor of the draft ASTM E50 *Standard Practice for the Assessment of Contamination at Suspected Clandestine Drug Laboratories*, and he is a coauthor of a 2007 AIHA Publication on methlab assessment and remediation.

185 BOUNTY HUNTER'S LANE, BAILEY, COLORADO 80421
PHONE: 303-903-7494 www.forensic-applications.com

APPENDIX B

ANALYTICAL REPORTS FOR FACTS SAMPLES

SAMPLING FIELD FORM

FACTs project name: Knox Court (Pt2)	Form # ML17
Date: June 6, 2013	Alcohol Lot#: A13Ø1 Gauze Lot#: G12Ø1
Reporting IH: Caoimhín P. Connell, Forensic IH	Preliminary X Intermediate ____ Final ____

Sample ID KMØ6Ø613-	Type	Location	Funct. Space	Dimensions	Substrate
-Ø1	W	3832 Furnace Interior – 20% undersampled	1	3.5 X 143	PM
-Ø2	W	3832 Bathroom top of medicine chest -	3	55.5 X 9	PM
-Ø3	W	3832 Kitchen top of cabinet - 50% undersampled	2	25 X 20	VW
-Ø4	W	3832 Bedroom window frame	4	Note 1	PW
-Ø5A	W	3832 TV in bedroom	4	10 X 10	PI
-Ø5B	W	3832 Living room tool box	1	10 X 10	PI
-Ø5C	W	3832 Living room TV	1	10 X 10	PI
-Ø5D	W	3832 Kitchen coffee maker	2	10 X 10	PI
-Ø5E	W	3832 Living room sofa	1	10 X 10	PI
-Ø6A	W	3832 Bedroom Dresser	4	10 X 10	VW
-Ø6B	W	3832 Bedroom night stand	4	10 X 10	VW
-Ø6C	W	3832 Living room end table	1	10 X 10	VW
-Ø6D	W	3832 Living room TV stand	1	10 X 10	VW
-Ø6E	W	3832 Kitchen end table	2	10 X 10	VW
-Ø7	W	BX	NA	NA	NA

Sample Types: W=Wipe; V=Microvacuum; A=Air; B=Bulk; L=liquid

Surfaces: DW= Drywall, P=Painted; W= Wood, L= Laminated, V= Varnished, M= Metal, C=Ceramic, PI=Plastic

Note 1: (165X2)+(9X19)



SAMPLING FIELD FORM

FACTs project name: Knox Court (Pt2)	Form # ML17
Date: June 6, 2013	Alcohol Lot#: A13Ø1 Gauze Lot#: G12Ø1
Reporting IH: Caoimhín P. Connell, Forensic IH	Preliminary X Intermediate _____ Final _____

Sample ID KMØ6Ø613-	Type	Location	Funct. Space	Dimensions	Substrate
-Ø8	W	3830 Furnace interior – 30% undersampled	12	20 X 25	PM
-Ø9	W	3830 Kitchen top of fridge - 10% undersampled	6	20 X 25	PM
-1Ø	W	3830 Living room, SW corner at ceiling	7	20 X 25	PDW
-11	W	BX	NA	NA	NA
-12	W	3830 NW Bedroom ceiling fan -20% undersampled	10	11 X 45	LW
-13	W	3830 Bathroom top of light fixture	8	Note 2	M
-14	W	3830 NE Bedroom top of window frame	9	Note 3	PW
-15A	W	3830 Kitchen coffee maker	6	10 X 10	PI
-15B	W	3830 Living room, top of TV	7	10 X 10	PI
-15C	W	3830 NW Bedroom, top of TV	10	10 X 10	PI
-15D	W	3830 NE Bedroom top of blue desk	9	10 X 10	PI
-15E	W	3830 NE Bedroom top of stool	9	10 X 10	PI
-16A	W	3830 Living room top of wall clock	7	10 X 10	VW
-16B	W	3830 Kitchen top of desk	6	10 X 10	VW
-16C	W	3830 Living room top of W desk	7	10 X 10	VW

Sample Types: W=Wipe; V=Microvacuum; A=Air; B=Bulk; L=liquid

Surfaces: DW= Drywall, P=Painted; W= Wood, L= Laminated, V= Varnished, M= Metal, C=Ceramic, PI=Plastic

Note 2: (4.5 X 38)+(3*(15X3))+(13.9 X 13.9)

Note 3: (1.5 X 89) * 2)+(2 X117)



SAMPLING FIELD FORM

FACTs project name: Knox Court (Pt2)	Form # ML17
Date: June 6, 2013	Alcohol Lot#: A13Ø1 Gauze Lot#: G12Ø1
Reporting IH: Caoimhín P. Connell, Forensic IH	Preliminary X Intermediate ____ Final ____

Sample ID KMØ6Ø613-	Type	Location	Funct. Space	Dimensions	Substrate
-16D	W	Top of dress in NW bedroom	10	10 X 10	VW
-16E	W	Top of book shelves in NE bedroom	9	10 X 10	VW
-17	Note 4	Sponge material from oxygen generator – nonregulatory sample	10	4 X 72	Note 4
-18	W	Attic top of duct over 3830 – 20% undersampled	12	15 X 33.3	M

Sample Types: W=Wipe; V=Microvacuum; A=Air; B=Bulk; L=liquid
 Surfaces: DW= Drywall, P=Painted; W= Wood, L= Laminated, V= Varnished, M= Metal, C=Ceramic, PI=Plastic
 Note 4: Sponged area repetitively daubed with a wipe





Forensic Applications

Final Report

RES 261349-1

June 7, 2013

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Quality Control Data	4
Chain of Custody	5-6



June 7, 2013

Laboratory Code: RES
Subcontract Number: NA
Laboratory Report: RES 261349-1
Project # / P.O. #: Knox
Project Description: None Given

Forensic Applications
185 Bounty Hunter Ln.
Bailey CO 80421

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Environmental matrices by the National Environmental Laboratory Accreditation Program, Lab Certification #E871030. The laboratory is currently proficient in the in-house ERA PAT Program.

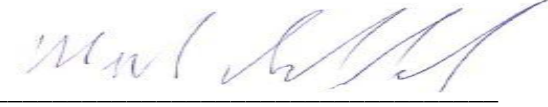
Reservoirs has analyzed the following sample(s) using Gas Chromatography Mass Spectrometry (GC/MS) / Gas Chromatography Flame Ionization Detector (GC/FID) per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the analysis table. Results have been sent to your office.

RES 261349-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those authorized by the client. The results described in this report only apply to the samples analyzed. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you should have any questions about this report, please feel free to call me at 303-964-1986.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jeanne Orr", is written over a horizontal line.

Jeanne Spencer Orr
President

Analyst(s): 
Mike Schaumloeffel

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory #101896
AIHA Certificate of Accreditation #480 LAB ID 101533

TABLE I. ANALYSIS: METHAMPHETAMINE BY WIPE

RES Job Number: **RES 261349-1**
 Client: **Forensic Applications**
 Client Project Number / P.O.: **Knox**
 Client Project Description: **None Given**
 Date Samples Received: **June 6, 2013**
 Analysis Type: **Methamphetamine by GCMS**
 Turnaround: **24 Hour**
 Date Samples Analyzed: **June 7, 2013**

Client ID Number	Lab ID Number	Reporting Limit (µg)	METHAMPHETAMINE CONCENTRATION (µg)
KM060613-01	EM 967622	0.05	14.90
KM060613-02	EM 967623	0.05	1.46
KM060613-03	EM 967624	0.05	6.07
KM060613-04	EM 967625	0.05	9.54
KM060613-05	EM 967626	0.05	0.27
KM060613-06	EM 967627	0.05	9.30
KM060613-07	EM 967628	0.05	BRL
KM060613-08	EM 967629	0.05	11.01
KM060613-09	EM 967630	0.05	19.20
KM060613-10	EM 967631	0.05	0.85
KM060613-11	EM 967632	0.05	BRL
KM060613-12	EM 967633	0.05	41.90
KM060613-13	EM 967634	0.05	9.41
KM060613-14	EM 967635	0.05	18.30
KM060613-15	EM 967636	0.05	6.26
KM060613-16	EM 967637	0.05	11.50
KM060613-17	EM 967638	0.05	6.13
KM060613-18	EM 967639	0.05	13.60

*** Unless otherwise noted all quality control samples performed within specifications established by the laboratory.**

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory #101896
AIHA Certificate of Accreditation #480 LAB ID 101533

QUALITY CONTROL: METHAMPHETAMINE BY WIPE

RES Job Number: **RES 261349-1**
Client: **Forensic Applications**
Client Project Number / P.O.: **Knox**
Client Project Description: **None Given**
Date Samples Received: **June 6, 2013**
Analysis Type: **Methamphetamine by GCMS**
Turnaround: **24 Hour**
Date Samples Analyzed: **June 7, 2013**

Quality Control Batch	Reporting Limit ($\mu\text{g}/100\text{cm}^2$)	Matrix Blank ($\mu\text{g}/100\text{cm}^2$)	Matrix Duplicate (% RPD)	Matrix Spike (% Recovery)	Laboratory Control Sample (% Recovery)
1	0.05	BRL	2	95	104

* Unless otherwise noted all quality control samples performed within specifications established by the laboratory.

** These analytical results meet NELAC requirements.



After Hours Cell Phone: 720-339-9228

INVOICE TO: (IF DIFFERENT)

CONTACT INFORMATION:

Company: **Forensic Applications, Inc**
 Address: 185 Bounty Hunters Lane
 Bailey, CO 80421

Contact: **Caomhin P. Connell**
 Phone: 303-903-7494
 Fax:
 Cell/pager:
 Final Date Deliverable Email Address: **admin@forensic-applications.com**

Project Number and/or P.O. #: **KNOX**
 Project Description/Location: **Parade water**

Client sample ID number (Sample ID's must be unique)	REQUESTED ANALYSIS				VALID MATRIX CODES				LAB NOTES:
	PLM - Short report, Long report, Point Count	TEM - AHERA, Level II, 7402, ISO, +/-, Quant, Sem-quant, Micro-vac, ISO-Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s) RCA 8, TCLP, Welding Fume, Metals Scan	ORGANICS - METH	MICROBIOLOGY	SAMPLER'S INITIALS OR OTHER NOTES: Not submitted	
1 KM060613-01									Air = A Bulk = B Dust = D Paint = P Soil = S Wipe = W Swab = SW F = Food Drinking Water = DW Waste Water = WW O = Other **ASTM E1792 approved wipe media only**
2 KM060613-02									
3 KM060613-03									
4 KM060613-04									
5 KM060613-05									
6 KM060613-06									
7 KM060613-07									
8 KM060613-08									
9 KM060613-09									
10									

Number of samples received: 10 (Additional samples shall be listed on attached long form.)

Relinquished By: Caomhin P. Connell Date/Time: 6/6/13 11:29 AM

Laboratory Use Only: 130 AM Carrier: ttwncd

Results: Contact Phone Email Fax Date Time Initials
 Contact Phone Email Fax Date Time Initials

Sample Condition: On Ice Yes/No Sealed Yes/No Intact Yes/No
 Temp. (F) 67.13 Time 11:50 Initials ttwncd

Company: Forensic Applications, Inc
Address: 185 Bounty Hunters Lane
 Bailey, CO 80421

Company: Caomhin P. Connell
Address: 303-903-7494

Project Number and/or P.O. #: KNOX
Project Description/Location:

Final Data Deliverable Email Address: admin@forensic-applications.com

CONTACT INFORMATION:
Contact: Caomhin P. Connell
Phone: 303-903-7494
Fax:
Cell/pager:

Client sample ID number (Sample ID's must be unique)	REQUESTED ANALYSIS										VALID MATRIX CODES				LAB NOTES:						
	PLM - Short report, Long report, Point Count	TEM - AHERA Level II, 7402, ISO +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s) RCRA 8, TCLP, Welding Fume, Metals Scan	ORGANICS - METH	Salmonella: +/-	E.coli O157:H7: +/-	Listeria: +/-	Aerobic Plate Count: +/- or Quantification	E.coli: +/- or Quantification	Coliforms: +/- or Quantification	S.aureus: +/- or Quantification	Y & M: +/- or Quantification		Mold: +/-, Identification, Quantification	SAMPLER'S INITIALS OR OTHER NOTES: Not submitted	Sample Volume (l) / Area	Matrix Code	# Containers	Date Collected mm/dd/yyyy
1 KM060613-10																			6/6/2013		267631
2 KM060613-11																			6/6/2013		2
3 KM060613-12																			6/6/2013		3
4 KM060613-13																			6/6/2013		4
5 KM060613-14																			6/6/2013		5
6 KM060613-15																			6/6/2013		6
7 KM060613-16																			6/6/2013		7
8 KM060613-17																			6/6/2013		8
9 KM060613-18																			6/6/2013		5
10																					

Number of samples received: _____ (Additional samples shall be listed on attached long form.)

Relinquished By: *Caomhin P. Connell* Date/Time: 6/6/13 11:09 AM

Laboratory Use Only Received By: *Michael* Date/Time: 6.6.13 1:30 PM Carrier: *Harman*

Results:

Contact	Phone Email Fax	Date	Time	Initials	Contact	Phone Email Fax	Date	Time	Initials
Contact	Phone Email Fax	Date	Time	Initials	Contact	Phone Email Fax	Date	Time	Initials

Sample Condition: On Ice Yes / No _____ Sealed Yes / No _____ Intact Yes / No _____

Temp. (F) _____

APPENDIX C

COMPACT DIGITAL DISK (PHOTOGRAPHS AND ADDITIONAL DOCUMENTATION)

