



**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

**Preliminary Assessment  
of an  
Identified Illegal Drug Laboratory  
at  
2525 South Dayton Way  
Unit 1603  
Denver, CO 80231**

Prepared for:  
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May 6, 2010

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## EXECUTIVE SUMMARY

On Thursday, March 25, 2010, personnel from Forensic Applications Consulting Technologies, Inc. (FACTs) were contracted to perform a standard cursory evaluation for the presence of methamphetamine at 2525 South Dayton Way, Unit 1603, Denver, CO 80231 (the subject property).

Samples taken during the cursory evaluation conclusively demonstrated the presence of methamphetamine contamination and, pursuant to Colorado Revised Statutes, CRS §16-13-103, the residence and all remaining personal items therein met the definition of an “illegal drug laboratory.”

On April 15, 2010, personnel from FACTs performed a State mandated Preliminary Assessment pursuant to Colorado Regulation 6 CCR 1014-43, Part 4. Based on the totality of the circumstances, FACTs makes the following observations:

- The property exhibits overt noncompliance with Colorado’s methamphetamine cleanup standards.
- “Discovery” and “Notification” existed by virtue of the FACTs April 2, 2010 report detailing the findings of the March 25, 2010 sampling.
- An illegal drug lab, as that term is defined in CRS §25-18.5-101, existed at the subject property from March 25, 2010 forward, and continues to exist at the time of this report.
- Subjective observations by FACTs provided *prima fascia* evidence that a methamphetamine *manufacturing* process occurred at the property.
- A Class 1 Public Nuisance, as defined in CRS §16-13-303(1) existed at the subject property from March 25, 2010 forward, and continues to exist at the time of this report.
- Following the decontamination activities, a qualified Industrial Hygienist must perform the post-decontamination process and issue a Decision Statement before reentry or occupancy of the subject property may occur.
- Initial (cursory) sampling was performed by Mr. Caoimhín P. Connell, Forensic Industrial Hygienist with FACTs, who was assisted by Mr. Rob Seel, Field Technician.<sup>1</sup> On April 15, 2010, the Preliminary Assessment sampling was conducted by Mr. Connell who was again assisted by Mr. Seel.

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<sup>1</sup> Mr. Seel has received a training 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.



# REGULATORY REQUIREMENTS

## ***Federal Requirements***

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

## ***State Requirements***

### **Preliminary Assessment**

According to Colorado State Regulation 6-CCR 1014-3, following the discovery of an illegal drug lab, as that term is defined in CRS §25-18.5-101, and following “notification,” the property must either be demolished or a “Preliminary Assessment” must be conducted at that property to characterize extant contamination (if any), and to direct appropriate decontamination procedures (if any). Pursuant to these regulations, information obtained in the Preliminary Assessment, and those findings, enter the public domain and are not subject to confidentiality.<sup>2</sup>

The Preliminary Assessment must be conducted according to specified requirements<sup>3</sup> by an authorized Industrial Hygienist as that term is defined in CRS §24-30-1402. This document, and all associated appendices and photographs, is the “Preliminary Assessment” pursuant to those regulations. Included with this discussion is a read-only digital disc. The disc contains mandatory information and photographs required by State regulation for a Preliminary Assessment. This Preliminary Assessment is not complete without the DVD and all associated support documents.

Pursuant to CRS §25-18.5-105, the subject property was deemed a “public health nuisance.” Pursuant to CRS §16-13-303, the subject property and all of its contents was deemed a Class 1 Public Nuisance. As such, the subject property must be remediated according to State Board of Health regulations 6-CCR-1014-3 or demolished (CRS §25-18.5-103).

### **Discovery and Notification**

Discovery and Notification occurred at the subject property by virtue of the April 2, 2010 report of findings written by FACTs.

### **Preliminary Hypothesis**

During the Preliminary Assessment, the initial hypothesis is made that the subject area is clean, and data will be collected to find support for this hypothesis. Any reliable data that fails to support the hypothesis, including police records, visual clues of illegal production, storage, or use, or documentation of drug paraphernalia being present, is

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<sup>2</sup> Section 8.26 of 6 CCR 1014-3

<sup>3</sup> Section 4 of 6 CCR 1014-3



considered conclusive, and requires the Industrial Hygienist to accept the null hypothesis and declare the area non-compliant.<sup>4</sup> 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 meth laboratories, to conclude the *presence* of methamphetamine, and/or its precursors or waste products as related to processing.

Contrary to common belief, sampling is **not** required during a Preliminary Assessment; however, if sampling is performed, it is conducted in the areas with the highest probability of containing the highest possible concentrations of contaminants. According to the State regulations:<sup>5</sup>

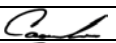
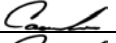


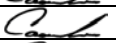
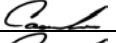


*Identification and documentation of areas of contamination. This identification may be based on visual observation, law enforcement reports, proximity to chemical storage areas, waste disposal areas, or cooking areas, or based on professional judgment of the consultant; or the consultant may determine that assessment sampling is necessary to verify the presence or absence of contamination.*

### Initial Statement on Hypothesis Testing

Regarding this subject property, objective sampling performed by FACTs confirmed overt methamphetamine contamination. In the totality of circumstances, any one of the samples would challenge the Primary Hypothesis, and require FACTs to accept the null hypothesis and declare the primary residence and all contents therein as non-compliant. Based on the totality of the circumstances, and sampling, the exterior portico leading up to the front entrance is determined to be compliant, and is excluded from further remediation activities provided the conditions of this Preliminary Assessment are met.

### Elements of the Preliminary Assessment

Specific mandatory information must be presented as part of the PA. This discussion, in its totality, contains the mandatory information for a PA as follows:

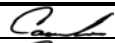
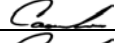

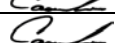
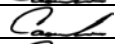
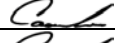

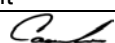
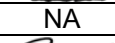






Mandatory Final Documents 6-CCR 1014-3	DOCUMENTATION	Included
§8.1	Property description field form	
§8.2	Description of manufacturing methods and chemicals	
§8.3	Law Enforcement documentation review discussion	
§8.4	Description and Drawing of Storage area(s)	
§8.5	Description and Drawing of Waste area(s)	
§8.6	Description and Drawing of Cook area(s)	
§8.7	Field Observations field form	
	FACTs Functional space inventory field form	

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

<sup>4</sup> This language and emphasis is verbatim from Appendix A (mandatory) of 6 CCR 1014-3

<sup>5</sup> Section 4.6 of 6 CCR 1014-3



§8.8	Plumbing inspection field form	
	FACTs ISDS field form	
§8.9	Contamination migration field form	
§8.10	Identification of common ventilation systems	
§8.11	Description of the sampling procedures and QA/QC	
§8.12	Analytical Description and Laboratory QA/QC	
§8.13	Location and results of initial sampling with drawings	
§8.14	FACTs health and safety procedures in accordance with OSHA	
§8.15 -§8.19	These sections are not applicable to a Preliminary Assessment	
§8.20	FACTs Pre-remediation photographs and log	
	FACTs Post-remediation photographs and log	NA
§8.21	FACTs SOQ	
§8.22	Certification of procedures, results, and variations	
§8.23	Mandatory Certification Language	
§8.24	Signature Sheet	
NA	Analytical Laboratory Reports	
	FACTs final closeout inventory document	NA
	FACTs Field Sampling Forms	

**Table 1 (Continued)**  
**Inventory of Mandatory Elements and Documentation**

### Subject Structure

The primary residential structure was listed by the Denver County Assessor's Office as a 1,063 square foot condominium built *circa* 1973. For the purposes of regulatory compliance, traditionally non-taxable spaces (such as the portico and patio) must be included in the assessment. Therefore, for the purposes of this Preliminary Assessment, the approximate total square feet of impacted floor space is listed as 1,390 square feet and sampling requirements must be based on this value.

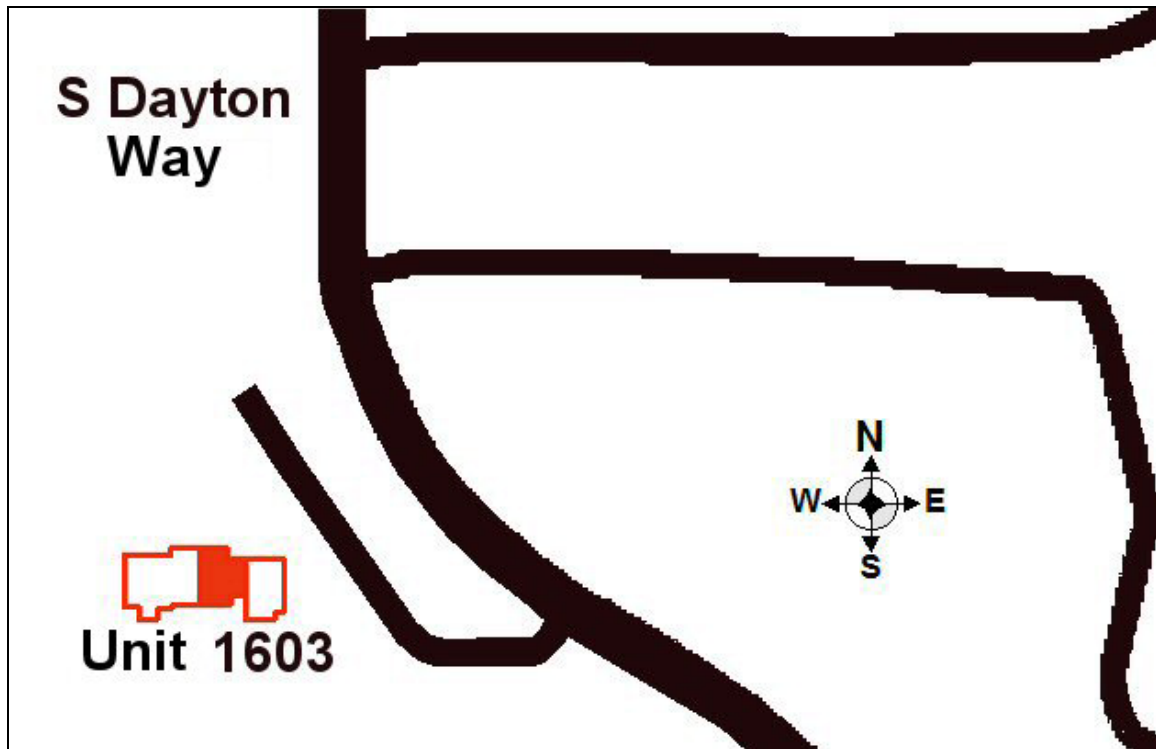
### Exterior Structures

Pursuant to State regulations, "Property" means anything that may be the subject of ownership or possession, including, but not limited to, land, buildings, structures, vehicles and personal belongings. Further, pursuant to Colorado Revised Statutes §25-18.5-101, the definition of a "drug laboratory" includes all proximate areas that are *likely* to be contaminated as a result of manufacturing, processing, cooking, disposing, or storing of methamphetamine, its precursors, waste products or equipment.

As such, we included the exterior portico and the exterior patio in the Preliminary Assessment.

A general aerial layout of the structures is depicted in the drawing below. Figure 1, below is not to scale, however, the drawing is proportional. The subject building is outlined in red and the subject property is shaded in solid red.





**Figure 1**  
**General Site Layout**

### **Review of Law Enforcement Documentation**

As part of the Preliminary Assessment, FACTs is required by regulation<sup>6</sup> to review available law enforcement documents pertinent to a subject property. During this project, the Denver Police Department exhibited the highest level of professionalism and cooperated with the requirements of our Preliminary Assessment, and promptly responded to our request for information. In addition to the call history, we spoke with a staff member of the Denver Police Civil Liabilities Bureau who informed us that the Denver Police Department did not have any records pertaining to controlled substances for that property.

### **County**

#### **Governing Body**

The City and County of Denver has informed us that the “Governing Body” as defined in CRS §25-18.5-101 for this subject property is:

Mr. Gene Hook  
Environmental Protection Specialist  
City and County of Denver

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<sup>6</sup> 6 CCR 1014-3 (Section 4.2)



Department of Environmental Health  
Environmental Protection Division  
201 W. Colfax Ave., Dept. #1009  
Denver, CO 80202

### ***Visual Inspection of the Property***

As part of the Preliminary Assessment, on Tuesday, April 15, 2010, Mr. Caoimhín P. Connell, Forensic Industrial Hygienist with FACTs, performed a visual inspection of the subject property. Pursuant to regulatory requirements, the subject property was assigned into “functional spaces,” and an indicia inventory and assessment was performed for each functional space.

The property was essentially in an “unoccupied” condition, but it did contain residual chattels, trash, personal belongings and some major appliances.

To protect the property owner against the introduction of contaminants into the subject property, the Industrial Hygienist and his Technician donned fresh Tyvek<sup>®</sup> suits upon entering the property. All equipment brought into the subject property was staged at or near the front door. The ladder FACTs used during this assessment had been cleaned at a car wash prior to use.

## **SAMPLE COLLECTION**

### ***Wipe Samples***

The samples collected throughout the subject property comprised of “discreet” samples. Discreet samples are a single wipe, collected from a single area, and submitted for analysis as a unique location.

### **Methamphetamine**

Wipe samples were collected in a manner consistent with State regulations. The wipe sample medium was individually wrapped commercially available Johnson & Johnson<sup>™</sup> gauze pads. 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 pad 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.

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 Analytical Chemistry Inc. in Tukwila, Washington.





## 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 the purposes of this Preliminary Assessment, a blank sample was not required. Nevertheless, a field blank was submitted. The blank was submitted “blind” meaning the analyzing laboratory had no indication that one or more of the samples may be QA/QC related. The blank was part of a nine-sample suit shared with another project (thus the different sample pre-fixes).

## 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.

## Collection Rationale

### Primary Objective

It is a common misconception that the Industrial Hygienist is required to collect samples during a Preliminary Assessment of an illegal drug lab. 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 cm<sup>2</sup>), 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 facie* evidence during final verification activities in the absence of all other information. During a 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 data and information to conclude that the contamination in the subject property was widespread, and, based on the cursory samples, we concluded that the entire space was contaminated.

The data quality objectives of the samples collected during the Preliminary Assessment were to determine, within the context of the regulation, whether or not specific areas, such as the ventilation system, portico and patio, could be excluded from the remediation process. Based on those sample results, we were able to exclude only the portico from remediation; otherwise contamination was confirmed to be present throughout the entire structure. The unusually elevated sample results reinforced the *a priori* assumption that contamination was excessive and widespread.

## Sample Results

### Methamphetamine

The results of the methamphetamine samples are summarized in the table below.

Sample ID	Location	Sample Result (µg/100cm <sup>2</sup> )	Decision Threshold (µg/100cm <sup>2</sup> )
DM032510-1 A	Ventilation intake manifold – living room	310	0.1
DM032510-1 B	Top of motion detector – living room		
DM032510-1 C	Top of maroon shelf – living room		
DM032510-1 D	Extraction fan - kitchen		
DM032510-1 E	Top of cabinet – kitchen		
DM032510-2 A	Top of hanging bar- NE bedroom closet	85.6	0.1
DM032510-2 B	Upper N wall- NW bedroom		
DM032510-2 C	Top of alarm box – front hallway		
DM032510-2 D	Top of medical cabinet - bathroom		
DM032510-2 E	Top of smoke detector – back hallway		
DM041410-1	Plenum return air fan housing	59.7	0.50
DM041410-2	Master bedroom supply vent	24.6	0.50
CM041410-4	Field Blank	BDL	BDL
DM041410-4	Patio light fixture	4.3	0.50
DM041410-5	Portico light fixture	0.1	0.50

\*BDL – Below Detection Limit

**Table 2**  
**Results of Preliminary Methamphetamine Wipe Samples**

### Wipe Sample Results

In the above table, the shaded samples (prefix DM032510) are the samples that were collected pursuant to Colorado's Real Estate methamphetamine disclosure and testing statute as described by CRS §38-35.7-103(2)(a). As such, these samples were not subject to the regulatory sampling requirements of 6 CCR 1014-3. Nevertheless, the Industrial



Hygienist is required by regulation to incorporate those sample results into the Preliminary Assessment.

### **Quality Assurance/Quality Control**

The following section is required by regulation and is not intended to be understood by the casual reader. All abbreviations are standard laboratory use.

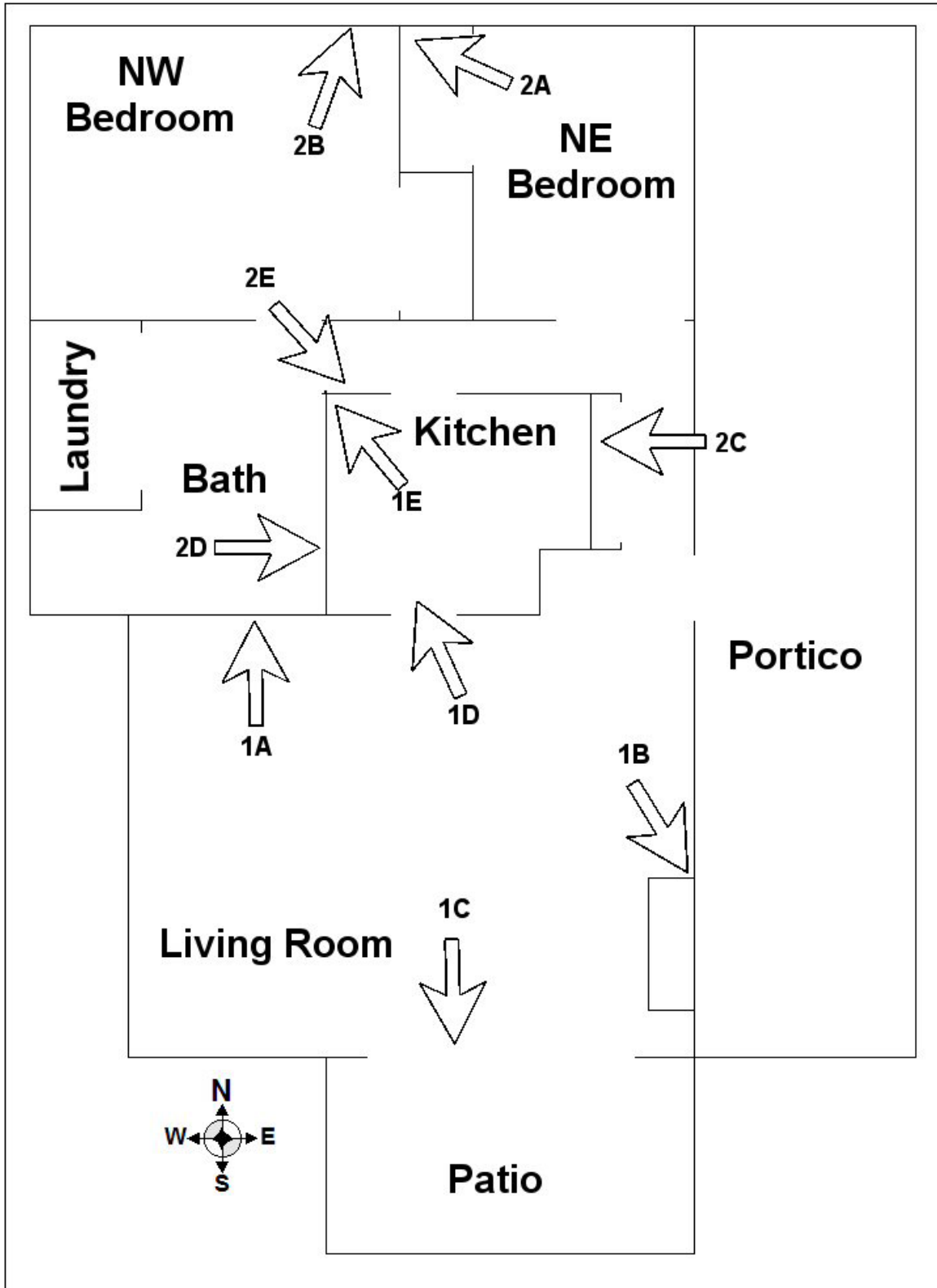
### **Data Set**

MDL was 0.004 µg; LOQ was 0.03 µg; MBX <MDL; LCS 100 µg (RPD 2%, recovery =102%); Matrix spike 0.020 µg (RPD <1%; recovery 100%); Matrix spike Dup 0.020 µg; (RPD 5%; recovery 105%); Surrogate recovery: High 105% (Sample 1 and 5), Low 91% (Sample 2); FACTs reagents: MeOH lot #A0901 <MDL for n=3; Gauze lot G1001 <MDL for n=1. The QA/QC indicate the data met the data quality objectives; and the results do not appear to exhibit significant bias.

### **Sample Locations**

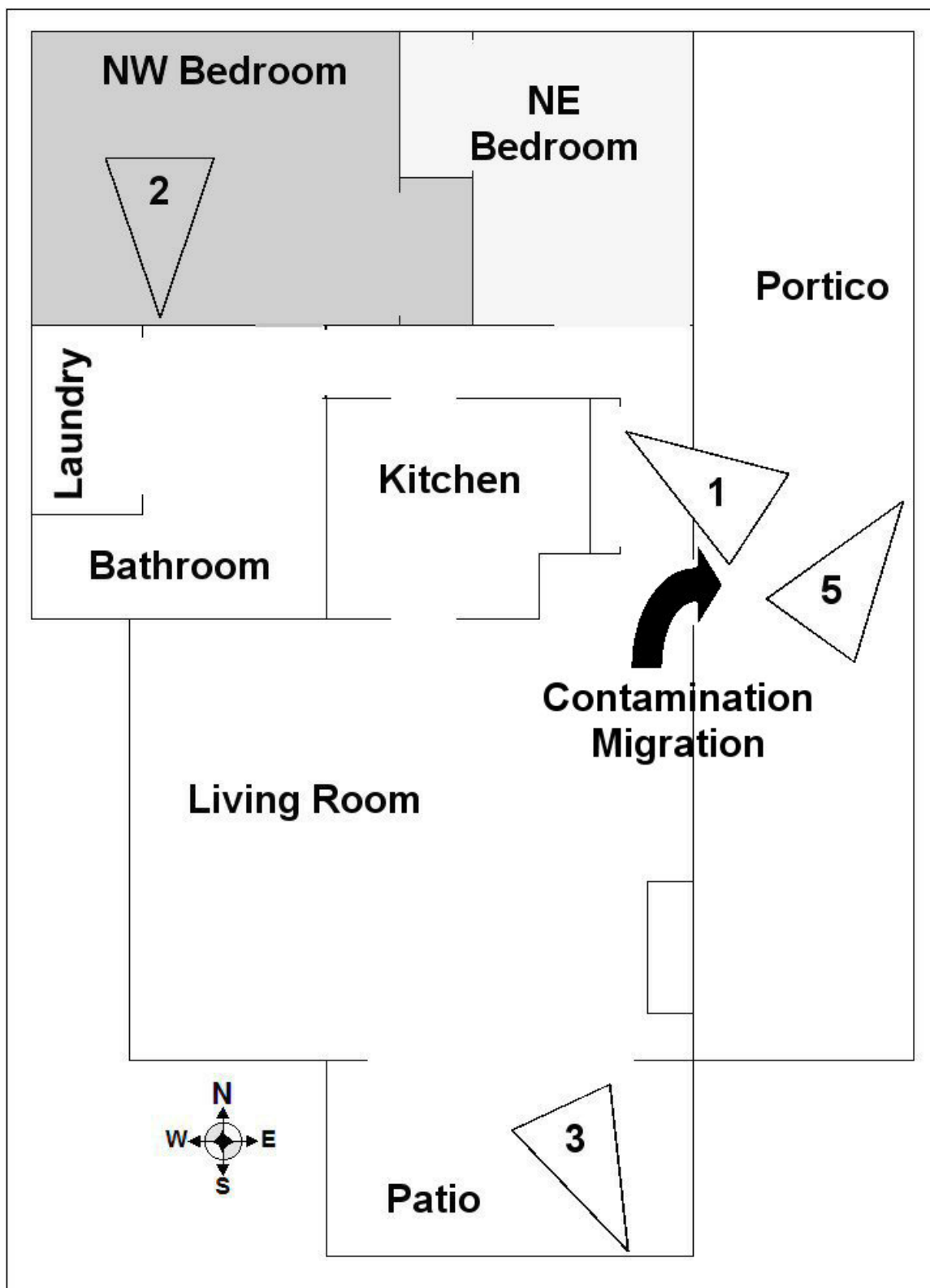
In the figures that follow, the sample locations have been presented. The drawings are stylized and not to scale. In the diagrams, the sample locations indicated by triangles were collected during the Preliminary Assessment, and those indicated by arrows were collected during the cursory evaluation.





**Figure 2**  
**Cursory Sample Locations**





**Figure 3**  
**Preliminary Assessment Sample Locations**



## Identification of Cook/Storage Areas

Based on our sampling results, our observations and the totality of circumstances, we believe that the methamphetamine contamination is consistent with smoking methamphetamine in the residence and Red-P cooking method. It is difficult to objectively determine which, if any, location may have been the primary location of use. However, we believe that the most likely cooking area was the northwest bedroom; indicated by shading in the figure above.

## Identification of Contamination Migration

Originally, we believed that the subject property was on a shared industrial ventilation system with common supplies and returns. As such, we initially presumed that migration would have occurred from the subject property into the portico and into surrounding residences.

On closer inspection, we determined that the ventilation system was exclusive to the subject property, and did not communicate with other residences. Nevertheless, the supply fan for the subject property is in the common plenum. The supply ducts are also in the common plenum and are under positive pressure vis-à-vis the surrounding plenum.

Migration of contaminants through a structure is well known<sup>7</sup> and based on our best assessment, FACTs believes that some contamination migration may have occurred from the subject property into the adjoining units above the subject property and to the west of the subject property. FACTs lacks the authority to perform sampling in those units, but is required to determine the probability of contamination migration.

Through sampling, FACTs was able to determine that contamination migration did not occur from the subject property into the common portico, and we were able to exclude the portico from remediation.

With the exception of the portico, we did not observe any conditions in the exterior grounds that would indicate that contamination migration occurred exterior of the building. We observed trace contamination migration from the subject property to the portico.

Due to the widespread diffuse nature of potential fugitive emissions, no drawing can be prepared.

## 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

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<sup>7</sup> Rasmuson J, Hall D, Birkner AZ, Connell CP, Martyny J., *A Computational Fluid Dynamics (CFD) and Tracer Gas Comparison of the Spatial Distribution of an Airborne Contaminant in an Office Space as a Function of General Ventilation Conditions*, American Industrial Hygiene Assoc. Philadelphia (2007)



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.<sup>8</sup>

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:

<b>Structure Number</b>	<b>Functional Space Number</b>	<b>Describe the functional space</b> (See drawings for delineating structural features )
<b>1</b>	<b>1</b>	<b>Living Room and dining room</b>
<b>1</b>	<b>2</b>	<b>Foyer and foyer hallway</b>
<b>1</b>	<b>3</b>	<b>Northeast Bedroom</b>
<b>1</b>	<b>4</b>	<b>Back hallway</b>
<b>1</b>	<b>5</b>	<b>Kitchen</b>
<b>1</b>	<b>6</b>	<b>Northwest Bedroom</b>
<b>1</b>	<b>7</b>	<b>Laundry hutch and bathroom</b>
<b>1</b>	<b>8</b>	<b>Exterior Patio</b>
<b>1</b>	<b>9</b>	<b>Exterior Portico</b>
<b>1</b>	<b>10</b>	<b>Furnace</b>

**Table 3**  
**Functional Space Inventory**

## ***Structure Number 1 - Main Residence***

### **Functional Space 1: Living Room**

The Living Room is the large room along the south side of the residence. There is a sliding glass door for patio ingress and egress. Three of the five parts of cursory sample DM032510-1 were collected from the Living room. The living room has visual indicators consistent with methamphetamine smoking and manufacturing.

### **Functional Space 2: Foyer Hall**

This space is the room one enters directly from the front door to the residence. The foyer hallway leads to the bedrooms to the north. The hallway also contains a small cubby adjoin the kitchen wall. This room was included in the composite sample collected during the cursory evaluation. The concentration of the composite samples were such that conclusive evidence existed to challenge the compliance of the room.

### **Functional Space 3: North East Bedroom**

This space is entered via a set of double doors along the south wall. The space contained visual indicators consistent with methamphetamine use. This room was included in the

<sup>8</sup> Asbestos Containing Materials in Schools; Final Rule and Notice, Title 40 CFR Part 763, Fed. Reg. Vol. 52, No. 210, Fri. Oct. 30, 1987



composite sample collected during the cursory evaluation. The concentration of the composite samples were such that conclusive evidence existed to challenge the compliance of the room.

#### **Functional Space 4: Back Hallway**

This space is the narrow hallway which adjoins the bathroom and bedrooms to the living room. This area was included in the composite sampling which indicated widespread contamination.

#### **Functional Space 5: Kitchen**

This space is delineated as that term is commonly used. Yellow staining, in a manner consistent with methamphetamine production was present in this space. This area was included in the composite sampling which indicated widespread contamination.

#### **Functional Space 6: Northwest Bedroom and Closet**

This bedroom contained several visual clues consistent with methamphetamine use and manufacturing. A discreet sample collected from the furnace supply grille in this room exhibited excessive concentrations of methamphetamine.

#### **Functional Space 7: Laundry and Bathroom**

This functional space is the contiguous area along the west side of the residence. The bathroom fan from this location was missing, and the plenum was exposed. As a general rule, due to a phenomenon known as the “stack effect,” air flow within a structure such as this building is from the lower portions of the structure to the upper portions of the structure. We believe that this cavity would be no different and that contamination would have migrated into the common plenum. However, any residual contamination in the plenum could not reasonably pose an exposure potential to any occupant, and therefore would not meet the definition of “contamination.” Furthermore, an occupant cannot physically access the plenum for storage or entry.

#### **Functional Space 8: Patio**

The patio is the covered exterior portion of the residence along the south and which communicates with the living room. A discreet sample was collected from the patio. The sample result conclusively demonstrated a concentration of methamphetamine in excess of the regulatory thresholds. Therefore, the patio is included in the remediation process.

#### **Functional Space 9: Portico**

The portico is the common covered exterior walkway that leads to the exterior stairs and to the residence on the east.

The portico was an area of potential fugitive emission. A sample was collected from the top of the dome light in the portico. Although present, the concentration of methamphetamine was below the regulatory threshold.





## Furnace

Although arguably not a functional space *per se*, a discreet wipe sample was collected from interior furnace duct. The sample was collected from the fan housing which is in-line upstream from the ceiling return grille in the foyer. The discreet sample indicated that methamphetamine contamination in the furnace system was significantly elevated (20.6 µg/100 cm<sup>2</sup>).

The industrial hygiene and medical communities now know that the mere use of methamphetamine in a home results in elevated exposures to the occupants via airborne migration. When methamphetamine is smoked, between 80%<sup>9</sup> and half<sup>10</sup> of the substance is released from the user's pipe. Of that material which is inhaled, between 33%<sup>11</sup> and 10%<sup>12</sup> of the nominal dose is not absorbed into the body (leaving the remainder airborne). Recent work conducted by Industrial Hygienists at the National Jewish Hospital<sup>13</sup> in Denver, Colorado, indicates that a single use of methamphetamine, by smoking, would result in an average residential area ambient airborne concentration of methamphetamine ranging from 35 micrograms per cubic meter (µg/m<sup>3</sup>) to over 130 µg/m<sup>3</sup>. These authors found that smoking methamphetamine just once in the residence can result in surfaces being contaminated with methamphetamine. The authors concluded:

*"If methamphetamine has been smoked in a residence, it is likely that children present in that structure will be exposed to airborne methamphetamine during the "smoke" and to surface methamphetamine after the 'smoke'."*<sup>14</sup>

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<sup>9</sup> Cook CE, *Pyrolytic Characteristics, Pharmacokinetics, and Bioavailability of Smoked Heroin, Cocaine, Phencyclidine, and Methamphetamine* (From: Methamphetamine Abuse: Epidemiologic Issues and Implications Research Monograph 115, 1991, U.S. Department Of Health And Human Services Public Health Service Alcohol, Drug Abuse, and Mental Health Administration National Institute on Drug Abuse)

<sup>10</sup> Cook CE, Jeffcoat AR, Hill JM, et al. *Pharmacokinetics of Methamphetamine Self-Administered to Human Subjects by Smoking S-(+)-Methamphetamine Hydrochloride*. Drug Metabolism and Disposition Vol. 21 No 4, 1993 as referenced by Martyny JW, Arbuckle SL, McCammon CS, Erb N, Methamphetamine Contamination on Environmental Surfaces Caused by Simulated Smoking of Methamphetamine (The publication of this study is currently pending. Copies of the study are available from the Colorado Alliance for Drug Endangered Children.)

<sup>11</sup> Harris DS, Boxenbaum H, Everhart ET, Sequeira G, et al, *The bioavailability of intranasal and smoked methamphetamine*, Pharmacokinetics and Drug Disposition, 2003;74:475-486.)

<sup>12</sup> Cook CE, Jeffcoat AR, Hill JM, Pugh DE, et al *Pharmacokinetics of methamphetamine self-administered to human subjects by smoking S-(+)-methamphetamine hydrochloride* Drug Metabolism and Disposition, Vol 21, No. 4, pp. 717-723, 07/01/1993

<sup>13</sup> Martyny JW, Arbuckle SL, McCammon CS, Erb N, *Methamphetamine Contamination on Environmental Surfaces Caused by Simulated Smoking of Methamphetamine* (The publication of this study is currently pending. Copies of the study are available from the Colorado Alliance for Drug Endangered Children.)

<sup>14</sup> Martyny JW, Arbuckle SL, McCammon CS, Erb N, *Methamphetamine Contamination on Environmental Surfaces Caused by Simulated Smoking of Methamphetamine* (The publication of this study is currently pending. Copies of the study are available from the Colorado Alliance for Drug Endangered Children.)



Since it is the purpose of the ventilation system to move air throughout the structure, and the furnace (as evidenced by the ductwork sample) conclusively contained significantly elevated concentrations of methamphetamine, we conclude the furnace was an effective mechanism of dissemination and may be a continued source of contamination unless appropriately addressed.

The results of the furnace sample alone would lead a reasonable person, trained in aspects of meth laboratories, to conclude the *presence* of widespread elevated methamphetamine throughout the entire occupied space, all other sample results notwithstanding.

Therefore, it is for this reason that FACTs confidently concludes that, based on just this sample alone, an high probability of elevated concentrations of methamphetamine exists throughout the residence including all items of debris and personal belongings; even in areas that have not been confirmed as contaminated by sampling. Having said this, the remaining samples objectively confirm the existence of widespread contamination.

## EXTERIOR GROUNDS

Although not truly a functional space *per se*, the exterior grounds were assessed independently. Although we did observe some evidence of stressed vegetation, we did not observe any indicators that would suggest the exterior grounds were adversely affected by controlled substance activities.

## SEWERAGE SYSTEM

The Denver County Assessor's Office indicates the subject property is on city water and city sewer. Therefore, no inspection of an exterior sewer system, septic tank or leach field was made.

## 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 widespread methamphetamine presence exists throughout the residential structure of the subject property.

Based on our objective sampling results and subjective observations, we conclude that a pseudoephedrine reduction method of production occurred in the house.

Based on our observations, the entire residence, including the patio and all contents and the furnace system must be subjected to remediation consistent with the regulatory requirements.



Based on our experience, it may be impossible to economically decontaminate the furnace and associated ductwork, and the system may have to be removed and replaced. We have included alternative options in the accompanying scope of work.

## RECOMMENDATION

### ***Universal Site Requirements***

Based on our observations, and laboratory results, we recommend standard industry practices for decontamination be followed. The remediation contractor should be given full responsibility for their own standard operating procedures. The following are provided as guidance and reflect standard practices for the remediation of similar properties. The Governing Body has statutory authority to require a greater degree of decontamination of the subject property.

1. An on-site storage container should be established on the grounds (such as a poly lined and covered roll on-roll off container (ro-ro) or temporary trailer).
2. The on-site container shall be secured with a padlock at all times when not immediately manned by remediation personnel.
3. A licensed contractor, who is trained and experienced in methlab decontamination, as required by State regulations, should be contracted for the decontamination work. All work performed at the residence should be conducted by an experienced contractor whose employees are documented to have been properly trained in accordance with 29 CFR §1910.120 and Colorado Revised Statute §25-18.5-104; *Entry into illegal drug laboratories*.
4. We recommend the decontamination process be conducted in Level C PPE ensembles with a minimum of half-face APRs.
5. We recommend that a decontamination corridor with showers be established at the main entrance door.
6. All remediation work performed at the residence should be conducted under written contract with a reputable remediation company qualified to perform the work.
7. All work performed at the residence should be conducted with open communication and cooperation with the Denver Police Department.
8. Discovery of any child pornography shall be immediately reported to the Denver Police Department.
9. Discovery of any controlled substances shall be immediately reported to the Denver Police Department.



10. All remediation work should be presumed to be pursuant to Title 29 of the Code of Federal Regulations, §1910.120 until otherwise indicated.
11. The contractor *shall* be contractually obligated to perform personnel air monitoring for methamphetamine for at least one full shift employee per day to allow for support of proper PPE selection. If the air monitoring results in a concentration of greater than 120 µg methamphetamine per cubic meter, the contractor is required to upgrade respiratory protection to a minimum of either full face APR or PAPR.
12. The contractor *should* be contractually obligated to include the personnel air monitoring data in their final documentation.
13. Any contractors (and their subcontractors) should be contractually obligated, through a written contract, to decontaminate the subject property to below the statutory limits. Any recleaning required by a contractor (or their subcontractor) pursuant to a failed final assessment(s) should be contractually obligated to be performed at the expense of the contractor.
14. Contractors should be contractually obligated to cover costs of return visits by the Industrial Hygiene and sample expenses as a result of a failed final clearance(s).
15. State regulations prohibit painting or otherwise encapsulating surfaces prior to final clearance sampling by the Industrial Hygienist.
16. State regulations prohibit the use of strong oxidizers to mask the presence of methamphetamine; no cleaning agents greater than 5% hydrogen peroxide (or other oxidizer) are permitted on site.
17. Following the decontamination process, and prior to the final clearance sampling by the Industrial Hygienist, the remediation contractor/subcontractor shall be contractually obligated to collect a minimum of three QA/QC wipe samples from the subject property, as part of their own QA program, and required to submit those samples for methamphetamine analysis. The contractor shall be contractually obligated to provide their wipe sampling data (including location of sample, area of sample, and analysis results), to the consulting Industrial Hygienist for review prior to final clearance sampling.
18. If the contractor's three QA/QC samples suggest that contamination in the subject property remains at a concentration in excess of 0.25 µg/100 cm<sup>2</sup>, the contractor shall be contractually obligated to continue to clean, and sample, until the elevated concentrations are not observed.



19. Once the contractor's samples indicate the contamination has been sufficiently reduced, the Industrial Hygienist shall perform final clearance sampling according to 6-CCR 1014-3.
20. Duct insulation (or any other fabric materials that are to be left in the property) shall be subjected to final clearance sampling in accordance with standard industrial hygiene microvacuum sampling procedures.<sup>15</sup>
  - a. Currently, in the State of Colorado, there are no regulatory limits by which one may compare vacuum results; the interpretation of such results is left within the realm of professional judgment of the Industrial Hygienist. FACTs interprets vacuum samples in the context of contaminant density. The interpretation of the results of the vacuum samples takes into account the size of the surface area sampled, the mass of material removed from that surface, and the mass of contaminant in the removed material. The laboratory will be instructed to weigh and report the mass of debris recovered from the cassette, along with the total mass of methamphetamine in that debris. From this information, FACTs will calculate and report a "density" of methamphetamine. The "density" used here is expressed in units of micrograms of methamphetamine recovered per milligram of removable material, per unit area of surface ( $\mu\text{g}/\text{mg}/\text{cm}^2$ ) and is designated with the Greek letter rho ( $\rho$ ).

Based on our database of vacuum samples ( $n=65$ ) from previous methamphetamine contaminated properties, FACTs has set a qualified density "threshold of concern" of  $0.5 \rho$ . That is, if the methamphetamine density in the duct insulation exceeds  $0.5 \rho$ , FACTs will make the unqualified statement that in the absence of conflicting information, the material requires decontamination. The value of "0.5" in this case, has no association with the State mandated decision threshold of  $0.5 \mu\text{g}/100\text{cm}^2$  – the resemblance of the two values is purely coincidental.

## ***Decontamination of the Residence***

The contractor may propose removal of the furnace and associated ductwork, *in toto*, or may propose cleaning and decontamination of the ventilation system.

The following decontamination process should take place in this order:

1. Critical barriers shall be established at each plenum penetration and in particular at the penetration for the bathroom exhaust fan and the plenum access in the back hall.

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<sup>15</sup> For example, see ASTM Method D 5756-02



2. A critical barrier shall be constructed such that it surrounds and encloses the patio. The critical barrier shall be of sufficient construction to withstand the negative pressure induced by the NAM.
3. No work shall occur until the critical barriers have been established.
4. No removal or decontamination shall occur until negative pressure is established.
5. No work, except as needed to establish critical barriers, shall begin until negative pressure is established.
6. The negative pressure must be monitored at all times at each location and must be maintained at a pressure differential of at least 0.02" WC. In the event that the pressure differential is not continuously monitored and/or the pressure differential drops to less than 0.02" WC, the contractor shall be contractually obligated to indemnify the registered owner against claims of contamination migration as a result of remediation.
7. Exhaust from the negative enclosure may take place at any ground level location.
8. 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.
9. A three part airlock shall be established at the entrance. All items in the residence must be wiped down in the airlock prior to being transloaded through the airlock. Otherwise unmanageable items shall be bagged and/or wrapped, or otherwise prepared to be transported into the airlock where the outside surface of the bag or wrapping can be wiped down.
10. All items in the residence shall be removed and discarded.
11. If the contractor identifies salvageable items of significant financial value (coin collections, jewelry, statuary, etc), they shall contact the registered owner and advise them of the findings.
12. All carpeting and padding shall be bagged and transloaded to the waste storage container.
13. The kitchen extraction fan shall be discarded.
14. Kitchen cabinets shall be cleaned and not removed.
15. Appliances shall be emptied of all contents, and the interior shall be decontaminated in a normal fashion.



16. The plumbing shall be flushed as normal.
17. Following the removal of interior contents, all surfaces in the entire interior space, including all ceilings, all hanging fixtures, all cabinets (interior and exterior surfaces), all shelving, all floors, doors, hinges, bathtubs, sinks, appliances (interior and exterior surfaces), exterior of the fireplace, and every other interior surface whether specifically mentioned or not, shall be thoroughly wiped down to remove residual contamination.
18. The furnace system shall be removed or cleaned in a manner consistent with State regulations.

Enclosures: One CD; Data package, and Appendices



## **APPENDIX A:**

### **SUPPORTING DOCUMENTS**





**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.  
CLANDESTINE METHAMPHETAMINE LABORATORY  
ASSESSMENT FIELD FORMS®**

<b>FACTs project name: Dayton</b>	<b>Form # ML1</b>
<b>Date: April 15, 2010</b>	
<b>Reporting IH:</b>	<b>Caoimhin P. Connell, Forensic IH</b>

**PROPERTY DESCRIPTION:**

Physical address	<b>2525 S DAYTON WAY, #1603 Denver, CO 80231</b>		
Legal description or VIN	<b>Dayton Green Ltd Condos Unit -1603 (AKA "The Falls Condominiums") Parcel: 0627401067067</b>		
Registered Property Owner	<b>First Bank Of Douglas County 2 Plum Creek Parkway Castle Rock, CO 80104-2667</b>		
Number of structures	<b>One</b>		
Type of Structures (Each affected structure will need a "Functional Space" inventory)	1: Main residence	1,063	Square feet
	2: Exterior patio	327	Square feet
	3: Total area	1,390	Square feet
Adjacent and/or surrounding properties	1: Above: Condominium residence		
	2: West: Condominium residence		
	3: East: Portico and condominium residence		
	4: South: Common greens		
	5: North: Parking area		
General Property Observations	<b>Several visual clues of methamphetamine abuse and manufacturing. Lack of pride of ownership, poor maintenance.</b>		
Presumed Production Method	<b>Red phosphorous (small scale "Beavis and Butthead")</b>		

**PLUMBING INSPECTION AND INVENTORY**

<b>FACTs project name: Dayton</b>	<b>Form # ML2</b>
<b>Date: April 15, 2010</b>	
<b>Reporting IH:</b>	<b>Caoimhin P. Connell, Forensic IH</b>

Functional Space	Room	Fixture	Indicia?	Comments
7	Bathroom # 1	Shower		No Comments
7	Bathroom # 1	Sink 1		No Comments
7	Bathroom # 1	Toilet		No Comments
	Bathroom # 2	Shower	XXX	XXXXXXXXXXXXXXXX
	Bathroom # 2	Sink 1	XXX	XXXXXXXXXXXXXXXX
	Bathroom # 2	Toilet	XXX	XXXXXXXXXXXXXXXX
	Bathroom # 3	Shower	XXX	XXXXXXXXXXXXXXXX
	Bathroom # 3	Sink 1	XXX	XXXXXXXXXXXXXXXX
	Bathroom # 3	Toilet	XXX	XXXXXXXXXXXXXXXX
5	Kitchen	Dishwasher	No	No Comments
5	Kitchen	Sink #1	No	No Comments
5	Kitchen	Sink #2	No	No Comments
7	Laundry Room	Slop sink	NA	No Comments
7	Laundry Room	Washing machine	NA	No Comments

**VENTILATION INSPECTION AND INVENTORY**

Item	Y/N	Indicia ?	Sampled ?	Comments
Isolated AHU?	Y			No Comments
Common air intake?	N			No Comments
Common bathroom exhausts?				Unable to determine
Forced air system?	Y			No Comments
Steam heat?	N			No Comments
Common ducts to other properties?	N			No Comments
Passive plena to other properties?	Y			No Comments
Active returns to other properties?	N			No Comments
Passive wall grilles to other properties?	N			No Comments
Industrial ventilation?	N			No Comments
Residential ventilation?	Y			No Comments
Pressurized structure?	N			No Comments



**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

**FUNCTIONAL SPACE INVENTORY**

<b>FACTs project name: Dayton</b>		<b>Form # ML3</b>
<b>Date: April 15, 2010</b>		
<b>Reporting IH:</b>	<b>Caoimhin P. Connell, Forensic IH</b>	

Structure Number	Functional Space Number	Indicia (Y/N)	Describe the functional space (See drawings for delineating structural features )
1	1	Y	Living Room and Dining Room
1	2	Y	Foyer Hallway
1	3	Y	Northeast Bedroom
1	4	Y	Back hallway
1	5	Y	Kitchen
1	6	Y	Northwest bedroom
1	7	Y	Laundry and Bathroom
1	8	Y	Patio
1	9	N	Portico



**LAW ENFORCEMENT DOCUMENTATION**

<b>FACTs project name: Dayton</b>		<b>Form # ML4</b>
<b>Date: April 15, 2010</b>		
<b>Reporting IH:</b>	<b>Caoimhin P. Connell, Forensic IH</b>	

Inventory of Reviewed Documents	Call History Invoice 6439
Described method(s) of production	Red P production
Chemicals identified by the LEA as being present	None
Cooking areas identified	Possibly NW Bedroom
Chemical storage areas identified	None
LE Observation on areas of contamination or waste disposal	None





**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

April 7, 2010

Detective Bowser  
Denver Police Civil Liability Bureau  
1331 Cherokee Street,  
Room 504  
Denver CO 80204

Via Fax: 720-913-7035

Dear Det. Bowser:

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 Denver at:

**2525 South Dayton Way, Building #1603 Unit #304, Denver, CO**  
**Names associated with the address: Wodack: (John, Marguerite, Elgard and/or Dawn)**

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 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 City and County of Denver Department of Health.

We will be performing the on-site assessment on April 14, 2010, and will need to review any available documents before then. We apologize for the short notice, however, we generally do not have any control over the timeframes involved.

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 Denver Law Enforcement, and we value and respect that open line of communication. 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 Denver Police Department, such records shall not be used for the direct solicitation of business for pecuniary gain.

Sincerely,

Caoimhin P. Connell  
Forensic Industrial Hygienist

#346 P.003/012

Date	Invoice #
4/7/2010	6439

Bill To
Forensic Applications Consulting 185 Bounty Hunter's Lane Bailey, Colorado 80421

Ship To
Caoimhin Connell

Case #	Terms	Rep	Ship	Via	Location
	Due on receipt	DSM	4/13/2010	Fax	2525 S Day

Quantity	Item Code	Description	Price Each	Amount
9	Premise History	Premise History Documents	0.25	2.25
1	Search Fee	Search Fee	15.00	15.00

Please remit to above address.

**Total**

\$17.25

We were informed by the DPD to ignore the Apt. Designation "1308" as an artifact of the computer search.

## Premise\_History

<i>Address</i>	<i>2525 Dayton Way S</i>			<i>Bldg</i>	<i>Apt</i>	<i>1308</i>		<i>Dist 3- Sector 2</i>	
<u>Resp. Date</u>	<u>Incident #</u>	<u>Problem</u>	<u>Priority</u>	<u>Received</u>	<u>Dispatch</u>	<u>Arrived</u>	<u>Closed</u>	<u>Cancel Reason</u>	
01/15/08 19:37	DPD-08-0032634	EMS	99	P99 File Only	19:37:47		19:39:18	FO For File Only	
01/15/08 19:47	DPD-08-0032649	9H 911 Hang Up	99	P99 File Only	19:47:51		19:47:55	FO For File Only	
01/15/08 20:06	DPD-08-0032675	E DOA	2	P2 Urgent		20:07:59	20:26:00	21:55:37	
01/25/08 15:34	DPD-08-0056085	Misuse / Misdial - 911 Calls	99	P99 File Only	15:34:45		15:34:59	FO For File Only	
02/04/08 7:03	DPD-08-0075712	AU Auto Theft Report	5	P5 Report High	7:04:10	7:12:39	7:28:56	8:06:26	
02/12/08 22:08	DPD-08-0095297	DVP Domestic Viol -In Prog	1	P1 Emergency	22:09:17	22:11:58	23:08:01		
02/16/08 10:49	DPD-08-0103567	CM Report	6	P6 Report Low	10:49:41	11:15:11	11:23:13	12:11:32	
02/24/08 14:28	DPD-08-0121770	Runaway	2	P2 Urgent	14:30:00	15:38:23	16:34:08	17:26:42	
02/25/08 6:37	DPD-08-0123049	Runaway	2	P2 Urgent	6:38:01	6:40:37	6:52:34	7:38:19	
02/26/08 15:59	DPD-08-0126230	AU Auto Theft Report	5	P5 Report High	16:02:35	16:34:34	18:16:23		
02/29/08 7:22	DPD-08-0131948	A Hit and Run	3	P3 Public Need	7:22:27	7:23:08	7:40:06	D Dispatcher Cancellation	
02/29/08 7:57	DPD-08-0131991	THR Threats Report	6	P6 Report Low	7:57:03	7:57:03	7:57:03	9:34:39	
03/01/08 19:33	DPD-08-0135929	Nature Unknown	1	P1 Emergency	19:34:03	19:38:59	19:54:06	D Dispatcher Cancellation	
03/07/08 8:26	DPD-08-0147904	EMS	99	P99 File Only	8:26:47		8:28:35	FO For File Only	
03/09/08 13:48	DPD-08-0153203	Property-Found Property	6	P6 Report Low	13:49:00	13:49:38	14:01:53	14:35:10	
03/12/08 11:01	DPD-08-0159495	FIRE	99	P99 File Only	11:01:29		11:02:11	FO For File Only	
03/14/08 6:21	DPD-08-0163765	Runaway	2	P2 Urgent	6:22:14	6:32:58	7:38:12	7:51:57	

03/16/08 20:00	DPD-08-0169976	Prowl	2	P2 Urgent	20:02:51	20:04:35	20:04:56	20:10:17	D Dispatcher Cancellation
03/17/08 15:08	DPD-08-0171417	AU Auto Theft Report	5	P5 Report High	15:13:47	16:17:00	16:40:16	16:57:26	
03/17/08 17:04	DPD-08-0171669	MS Message Relay	4	P4 Routine	17:05:48	17:08:58		17:16:25	D Dispatcher Cancellation
03/23/08 12:45	DPD-08-0184997	BURG Burglary - Report	5	P5 Report High	12:46:09	12:46:34	13:29:54	14:01:29	
03/24/08 16:05	DPD-08-0187243	EMS	99	P99 File Only	16:05:35			16:07:48	FO For File Only
03/28/08 18:14	DPD-08-0196340	DIST Disturbance	3	P3 Public Need	18:15:38	18:46:37	19:00:05	19:20:09	D Dispatcher Cancellation
04/01/08 18:14	DPD-08-0205217	Transfer to Another Agency	99	P99 File Only	18:14:48			18:14:51	FO For File Only
04/02/08 9:25	DPD-08-0205289	EMS	99	P99 File Only	9:25:14			9:27:04	FO For File Only
04/12/08 16:38	DPD-08-0229838	TH Theft Report	99	P99 File Only	16:38:40			16:38:43	FO For File Only



**Premise\_History**

<u>Address</u>	<u>2525 S DAYTON WAY</u>	<u>Bldg</u>	<u>Apt</u>				<u>Dist 3- Sector 2</u>	
<u>Resp. Date</u>	<u>Incident #</u>	<u>Problem</u>	<u>Priority</u>	<u>Received</u>	<u>Dispatch</u>	<u>Arrived</u>	<u>Closed</u>	<u>Cancel Reason</u>
04/21/08 20:41	DPD-08-0251537	SUSP Suspicious Person	3	P3 Public Need	20:41:34	20:43:18	21:03:58	21:23:58
04/23/08 19:36	DPD-08-0256046	DISTJ Juvenile Disturbance	2	P2 Urgent	19:38:35	19:44:55	20:04:39	21:12:05
04/23/08 19:38	DPD-08-0256050	A Hit and Run	3	P3 Public Need	19:38:45	19:49:12	20:04:39	20:18:53 D Dispatcher Cancellation
05/01/08 15:51	DPD-08-0274232	CM Report	6	P6 Report Low	15:53:28	17:15:01		17:40:38
05/05/08 7:48	DPD-08-0282865	CM Report	6	P6 Report Low	7:50:18	8:13:09	8:55:20	9:23:55 D Dispatcher Cancellation
05/05/08 19:42	DPD-08-0284371	CMP In Progress	2	P2 Urgent	19:43:47	20:36:57	20:54:48	21:34:51
05/09/08 8:48	DPD-08-0292363	TH Theft Report	6	P6 Report Low	8:48:43	8:48:43	8:48:43	11:48:53
05/21/08 6:26	DPD-08-0320728	A Hit and Run - No Injury	3	P3 Public Need	6:26:15	6:31:41		7:42:48
05/29/08 15:52	DPD-08-0341207	CIV Civil	3	P3 Public Need	15:52:40	16:09:30	16:19:16	16:40:03 D Dispatcher Cancellation
05/31/08 13:06	DPD-08-0345979	Information Call	99	P99 File Only	13:06:27		13:06:30	FO For File Only
06/02/08 14:41	DPD-08-0351108	Unwanted Person	3	P3 Public Need	14:45:48	15:16:19	15:27:46	15:59:07
06/03/08 22:12	DPD-08-0354557	Music / Noise	3	P3 Public Need	22:12:38	22:14:25	22:26:50	22:33:57
06/12/08 10:41	DPD-08-0375050	FIRE	99	P99 File Only	10:41:39		10:43:58	FO For File Only
06/19/08 23:57	DPD-08-0394645	FIT Fight	2	P2 Urgent	23:58:09	23:58:58	0:07:33	0:40:29
06/27/08 16:31	DPD-08-0414485	DISTF Family Disturbance	2	P2 Urgent	16:37:38	16:44:32	16:51:38	18:29:55
07/05/08 14:20	DPD-08-0436492	FIRE	99	P99 File Only	14:20:59		14:23:40	F Canceled by Fire
07/13/08 12:05	DPD-08-0456666	E Injury	2	P2 Urgent	12:05:52	12:13:58	12:20:05	12:24:01 D Dispatcher Cancellation

07/13/08 12:06	DPD-08-0456667	E Injury	2	P2 Urgent	12:08:17	12:10:48	12:14:22	D Dispatcher Cancellation
07/14/08 21:11	DPD-08-0460196	Fireworks	7	P7 Special Even	21:11:29		21:11:43	D Dispatcher Cancellation
07/24/08 23:16	DPD-08-0485927	Prowl	2	P2 Urgent	23:16:49	23:19:37	23:32:49	D Dispatcher Cancellation
07/26/08 21:21	DPD-08-0491027	A Unknown Injury	2	P2 Urgent	21:24:03	21:33:58	21:45:42	2:07:41
07/27/08 1:08	DPD-08-0491735	SUSP Suspicious Person	3	P3 Public Need	1:08:58	1:13:14	1:19:14	D Dispatcher Cancellation
07/30/08 9:12	DPD-08-0499465	Music / Noise	99	P99 File Only	9:12:30		9:13:14	FO For File Only
08/05/08 17:39	DPD-08-0515473	BURG Burglary - Report	5	P5 Report High	17:39:17	17:42:14	18:01:37	D Dispatcher Cancellation
08/06/08 12:04	DPD-08-0517454	SUSI Susp Incident	3	P3 Public Need	12:05:01	12:22:44	12:45:56	13:12:40
08/07/08 17:37	DPD-08-0520943	BURG Burglary - Report	5	P5 Report High	17:37:47	17:38:09	17:54:47	18:10:47
08/07/08 23:26	DPD-08-0521709	Prowl	2	P2 Urgent	23:28:41	23:27:51	23:41:16	1:03:19
08/29/08 19:34	DPD-08-0576278	Auto Theft	5	P5 Report High	19:35:58	20:13:06	20:26:00	21:17:03
09/01/08 0:14	DPD-08-0581843	Nature Unknown	2	P2 Urgent	0:15:03	0:19:53	0:29:43	1:03:29
09/08/08 11:21	DPD-08-0599090	Harassment	6	P6 Report Low	11:21:30	11:27:23		12:09:21
09/11/08 18:53	DPD-08-0606732	Prowler	2	P2 Urgent	18:57:01	18:54:42	18:59:41	19:33:54
09/12/08 19:45	DPD-08-0609220	Disturbance Family	2	P2 Urgent	19:48:32	19:58:03	20:06:20	21:00:26
09/24/08 20:02	DPD-08-0637983	Civil	3	P3 Public Need	20:02:56		21:31:25	D Dispatcher Cancellation
09/24/08 20:27	DPD-08-0638025	Burglary	3	P3 Public Need	20:28:10	21:46:29	22:05:26	22:49:18
09/28/08 19:43	DPD-08-0647712	Disturbance Family	2	P2 Urgent	19:45:08		20:03:08	D Dispatcher Cancellation
10/10/08 2:46	DPD-08-0674109	Noise Complaint	3	P3 Public Need	2:46:04	2:57:41	3:09:05	3:42:51
10/18/08 12:09	DPD-08-0692505	Missing Person / Runaway	2	P2 Urgent	12:09:57	12:12:25	12:24:43	13:31:16
10/21/08 21:10	DPD-08-0700217	Missing Person / Runaway	2	P2 Urgent	21:10:20	21:17:27	22:20:55	23:39:23
10/29/08 19:41	DPD-08-0717959	Check Welfare	2	P2 Urgent	19:42:39	19:45:19	19:53:13	21:50:05

10/31/08 17:32	DPD-08-0722218	Information Call	99	P99 File Only	17:32:28	17:32:31	FO For File Only
11/03/08 9:58	DPD-08-0729007	EMS	99	P99 File Only	9:58:22	10:00:27	FO For File Only
11/05/08 9:46	DPD-08-0733596	Misuse / Misdial - 911 Calls	99	P99 File Only	9:47:00	9:47:05	FO For File Only
11/05/08 9:50	DPD-08-0733603	Misuse / Misdial - 911 Calls	99	P99 File Only	9:50:21	9:50:34	FO For File Only
11/19/08 15:00	DPD-08-0765046	Noise Complaint	3	P3 Public Need	15:01:02	16:16:25	16:30:28
11/20/08 18:05	DPD-08-0767650	Disturbance Family	2	P2 Urgent	18:07:06	18:28:18	18:48:56
11/27/08 23:54	DPD-08-0783255	Noise Complaint	3	P3 Public Need	23:54:15	0:05:32	0:46:23
12/02/08 18:29	DPD-08-0792881	Misuse / Misdial - 911 Calls	99	P99 File Only	18:29:12	18:29:14	FO For File Only
12/03/08 22:12	DPD-08-0795576	Information Call	99	P99 File Only	22:12:18	22:12:20	FO For File Only
12/03/08 23:03	DPD-08-0795671	Suspicious Occurrence	3	P3 Public Need	23:03:13	23:20:08	D Dispatcher Cancellation
12/12/08 15:02	DPD-08-0814310	Follow Up	8	P8 In Service	15:02:17	15:02:17	15:32:28
12/22/08 19:24	DPD-08-0836616	EMS	99	P99 File Only	19:24:51	19:29:57	FO For File Only
12/30/08 13:10	DPD-08-0851129	Fraud / Forgery	5	P5 Report High	13:11:02	14:02:42	14:36:18
01/01/09 16:27	DPD-09-0001801	Missing Person / Runaway	2	P2 Urgent	16:41:45	16:30:52	18:56:31
01/12/09 9:43	DPD-09-0024429	Misuse / Misdial - 911 Calls	99	P99 File Only	9:43:24	9:43:31	FO For File Only
01/18/09 22:58	DPD-09-0039083	Theft from MV/IP-JO	3	P3 Public Need	22:58:56	23:02:48	23:28:24
01/20/09 13:14	DPD-09-0042191	911 Hang Up	99	P99 File Only	13:14:31	23:07:11	D Dispatcher Cancellation
01/27/09 22:01	DPD-09-0057778	911 Hang Up	99	P99 File Only	22:01:41	13:14:33	FO For File Only
01/28/09 22:30	DPD-09-0060253	Disturbance Family	2	P2 Urgent	22:33:14	22:01:53	FO For File Only
02/13/09 17:57	DPD-09-0096452	FIRE	99	P99 File Only	17:57:55	23:22:05	D Dispatcher Cancellation
02/15/09 3:42	DPD-09-0099804	Theft IP-JO	3	P3 Public Need	3:42:36	17:59:57	FO For File Only
02/21/09 22:44	DPD-09-0114242	Nature Unknown	2	P2 Urgent	22:47:47	4:09:31	6:14:44
						22:55:26	23:10:54
						D Dispatcher Cancellation	

03/06/09 1:30	DPD-09-0141091	Nature Unknown	2	P2 Urgent	1:31:26	1:32:01	1:39:22	3:44:31	
03/07/09 17:12	DPD-09-0144640	Civil	3	P3 Public Need	17:12:10	17:30:19	17:49:15	18:24:29	D Dispatcher Cancellation
03/17/09 4:23	DPD-09-0164190	Disturbance	3	P3 Public Need	4:24:26	4:27:49		4:50:28	
03/30/09 7:35	DPD-09-0191071	Criminal Mischief	6	P6 Report Low	7:35:00	7:35:00	7:35:00	7:35:31	
03/31/09 10:39	DPD-09-0193139	Auto Theft	5	P5 Report High	10:41:05	10:46:04		11:45:36	
03/31/09 20:21	DPD-09-0194117	911 Hang Up	99	P99 File Only	20:21:39			20:21:40	FO For File Only
03/31/09 20:22	DPD-09-0194118	Assault IP-JO	1	P1 Emergency	20:24:25	20:37:34	20:44:56	20:59:31	
04/04/09 18:54	DPD-09-0202044	Welfare Check	2	P2 Urgent	18:59:28	18:58:22	19:29:33	19:29:54	D Dispatcher Cancellation
04/07/09 10:30	DPD-09-0206752	Welfare Check	2	P2 Urgent	10:32:33	10:40:30	10:53:45	11:35:07	D Dispatcher Cancellation
04/07/09 11:48	DPD-09-0206908	Information Call	6	P6 Report Low	11:51:56	11:53:56		15:12:25	
04/07/09 14:43	DPD-09-0207247	911 Hang Up	99	P99 File Only	14:43:18			14:51:25	FO For File Only
04/10/09 16:56	DPD-09-0213633	Disturbance Family	2	P2 Urgent	16:58:58	17:02:12	17:15:22	17:25:02	D Dispatcher Cancellation
04/10/09 16:56	DPD-09-0213634	Disturbance Family	2	P2 Urgent	17:00:08	17:03:32	17:15:22	17:31:46	D Dispatcher Cancellation
04/21/09 16:57	DPD-09-0235239	Suspicious Occurrence	99	P99 File Only	16:57:12			16:58:00	FO For File Only
04/23/09 2:31	DPD-09-0238279	Disturbance	3	P3 Public Need	2:34:44	2:32:01	2:42:53	3:10:32	
05/04/09 19:49	DPD-09-0262296	Auto Theft	5	P5 Report High	19:53:48	20:05:43		20:48:45	
05/05/09 8:26	DPD-09-0263082	Theft	6	P6 Report Low	8:26:13	8:26:13	8:26:13	8:26:44	D Dispatcher Cancellation
05/05/09 14:00	DPD-09-0263659	Assault IP-JO	1	P1 Emergency	14:07:01	14:03:35	14:13:16	17:46:48	
05/06/09 5:30	DPD-09-0265079	Auto Theft	5	P5 Report High	5:31:29	5:33:12	5:45:58	6:19:56	
05/19/09 14:11	DPD-09-0293412	Suicidal Person	1	P1 Emergency	14:34:20	14:13:18	14:22:32	15:40:17	
06/08/09 7:17	DPD-09-0334739	Theft from MV	99	P99 File Only	7:17:24			7:17:34	FO For File Only
06/26/09 22:26	DPD-09-0376712	Shots Heard	3	P3 Public Need	22:27:23	22:51:52	22:57:30	23:10:49	

06/28/09 19:59	DPD-09-0381209	E 10 Chest Pain	2	P2 Urgent	20:02:03	20:02:56	20:35:06	
07/08/09 0:50	DPD-09-0402501	Disturbance Family	2	P2 Urgent	0:53:27	0:54:24	1:55:20	
07/08/09 1:55	DPD-09-0402565	Foot	8	P8 In Service	1:55:47	1:55:47	3:39:11	D Dispatcher Cancellation
07/15/09 8:30	DPD-09-0418357	Suspicious Occurrence	3	P3 Public Need	8:32:16	8:33:44	8:35:35	
07/20/09 11:50	DPD-09-0429569	Threats	3	P3 Public Need	12:00:30	12:00:12	12:37:19	D Dispatcher Cancellation
07/21/09 15:56	DPD-09-0431981	Weapon / Concealed Weap	1	P1 Emergency	16:04:07	16:00:42	21:57:32	
07/24/09 1:44	DPD-09-0436864	Burglary IP-JO	1	P1 Emergency	2:04:05	1:46:19	2:15:23	
07/24/09 9:17	DPD-09-0437230	Criminal Mischief	6	P6 Report Low	9:18:43	9:32:52	10:30:04	
08/02/09 17:44	DPD-09-0456489	Noise Complaint	3	P3 Public Need	17:44:48	17:57:52	18:40:18	D Dispatcher Cancellation
08/04/09 4:02	DPD-09-0459304	Suspicious Occurrence	3	P3 Public Need	4:02:44	4:12:25	4:33:52	
08/13/09 18:11	DPD-09-0479083	Intoxicated Person	3	P3 Public Need	18:12:14	20:11:15	20:26:26	
08/21/09 11:41	DPD-09-0494744	Welfare Check	2	P2 Urgent	11:44:51	11:48:36	12:17:30	
08/21/09 21:57	DPD-09-0495890	FIRE	99	P99 File Only	21:57:53		21:58:42	FO For File Only
09/04/09 17:18	DPD-09-0523803	Criminal Mischief	6	P6 Report Low	17:18:46	17:22:03	18:15:14	
09/09/09 21:20	DPD-09-0534189	Welfare Check	2	P2 Urgent	21:21:10	21:52:59	22:38:09	D Dispatcher Cancellation
09/18/09 7:17	DPD-09-0549899	Suspicious Occurrence	3	P3 Public Need	7:18:06	7:33:41	7:40:08	
10/04/09 8:48	DPD-09-0580145	EMS	99	P99 File Only	8:48:08		8:48:35	FO For File Only
10/21/09 21:16	DPD-09-0611451	Harassment	6	P6 Report Low	21:16:19	21:32:15	23:05:20	
10/25/09 5:38	DPD-09-0617705	Welfare Check	2	P2 Urgent	5:48:41	5:39:54	7:06:32	
10/26/09 1:04	DPD-09-0618859	Welfare Check	2	P2 Urgent	1:07:40	1:12:42	1:39:42	D Dispatcher Cancellation
10/31/09 16:18	DPD-09-0627640	Criminal Mischief	6	P6 Report Low	16:18:09	16:30:56	17:29:19	
11/03/09 9:43	DPD-09-0632545	Noise Complaint	3	P3 Public Need	9:45:51	9:47:53	10:14:40	

11/04/09 8:55	DPD-09-0634244	911 Hang Up	99	P99 File Only	8:55:23	8:55:33	FO For File Only
11/08/09 7:41	DPD-09-0641786	EMS	99	P99 File Only	7:41:48	7:43:27	FO For File Only
11/08/09 12:49	DPD-09-0642094	Theft	6	P6 Report Low	12:49:51	13:41:38	13:55:01 17:56:26
11/23/09 21:09	DPD-09-0668358	911 Hang Up	3	P3 Public Need	21:10:43	21:10:47	D Dispatcher Cancellation
11/23/09 22:33	DPD-09-0668450	EMS	99	P99 File Only	22:33:28	22:33:50	FO For File Only
11/24/09 12:29	DPD-09-0669186	Theft	6	P6 Report Low	12:29:46	12:43:50	12:50:26 14:00:44
12/01/09 15:42	DPD-09-0680473	Theft	6	P6 Report Low	15:42:20	15:45:53	17:10:43
12/04/09 20:53	DPD-09-0685546	Disturbance Family	2	P2 Urgent	20:56:12	20:54:20	21:04:08 21:59:53 D Dispatcher Cancellation
12/14/09 1:13	DPD-09-0700647	Noise Complaint	3	P3 Public Need	1:14:18	1:28:14	1:36:47 1:50:34 D Dispatcher Cancellation
12/17/09 23:49	DPD-09-0707316	Disturbance Family	2	P2 Urgent	23:51:13	23:49:27	23:57:52 0:48:45
12/25/09 9:12	DPD-09-0719245	Harassment	6	P6 Report Low	9:12:31	9:42:57	9:54:02 10:17:30 D Dispatcher Cancellation
12/29/09 19:43	DPD-09-0725261	Welfare Check	2	P2 Urgent	19:43:29	19:53:12	D Dispatcher Cancellation
12/30/09 17:08	DPD-09-0726661	Reckless Driver	3	P3 Public Need	17:10:51	17:23:17	17:50:28 18:07:18
01/08/10 11:09	DPD-10-0011674	Welfare Check	2	P2 Urgent	11:14:18	11:14:16	11:36:55 12:21:09
01/13/10 23:13	DPD-10-0021059	Noise Complaint	3	P3 Public Need	23:14:10	23:15:35	23:22:19 0:11:06 D Dispatcher Cancellation
01/25/10 15:22	DPD-10-0040566	Disturbance Family	2	P2 Urgent	15:26:18	15:30:12	16:33:06
01/25/10 23:20	DPD-10-0041191	FIRE	99	P99 File Only	23:20:58	23:21:38	FO For File Only
01/27/10 18:00	DPD-10-0044024	Attempt Contact or Pickup	4	P4 Routine	18:00:05	18:00:05	20:47:39 D Dispatcher Cancellation
02/06/10 11:47	DPD-10-0060731	Civil	3	P3 Public Need	11:54:53	11:51:57	12:01:33 D Dispatcher Cancellation
02/09/10 9:17	DPD-10-0065336	EMS	99	P99 File Only	9:17:34	9:18:53	E Canceled by EMS
02/18/10 10:11	DPD-10-0080753	Theft	6	P6 Report Low	10:11:11	10:11:11	10:11:11 10:11:21
02/19/10 9:18	DPD-10-0082240	Accident No Injury	4	P4 Routine	9:20:23	9:20:25	10:34:26

02/21/10 0:53	DPD-10-0085213	Missing Person / Runaway	2	P2 Urgent	0:53:59	1:04:53	1:25:18	1:53:05	
03/04/10 22:23	DPD-10-0104761	Noise Complaint	3	P3 Public Need	22:25:44	22:47:34	23:00:54	23:10:57	
03/08/10 6:32	DPD-10-0110351	Theft from MV	6	P6 Report Low	6:33:16	6:37:03	7:06:20	7:44:43	
03/08/10 7:43	DPD-10-0110403	Theft from MV	6	P6 Report Low	7:43:21	7:43:21	7:43:21	7:44:43	
03/10/10 23:20	DPD-10-0115014	Noise Complaint	3	P3 Public Need	23:21:44	23:27:32	23:39:44	0:00:20	
03/11/10 15:47	DPD-10-0116021	Noise Complaint	3	P3 Public Need	15:50:53	15:47:34		15:50:59	D Dispatcher Cancellation
03/12/10 5:30	DPD-10-0116965	Suspicious Occurrence	3	P3 Public Need	5:31:25	5:31:38	5:36:42	6:02:53	
03/12/10 9:20	DPD-10-0117172	Domestic Violence IP-JO	1	P1 Emergency	9:24:58	9:34:49	9:49:11	10:53:00	D Dispatcher Cancellation
03/12/10 22:58	DPD-10-0118518	Noise Complaint	3	P3 Public Need	22:59:24	23:11:20		23:49:21	
03/16/10 23:34	DPD-10-0125289	Threats IP-JO	2	P2 Urgent	23:36:16	23:36:08	23:45:34	0:01:19	
03/18/10 14:13	DPD-10-0128099	Arson	2	P2 Urgent	14:15:25	14:15:16	14:28:31	16:20:30	D Dispatcher Cancellation
03/30/10 12:14	DPD-10-0148264	Burglary IP-JO	2	P2 Urgent	12:14:39	12:15:27	12:19:44	12:20:03	
03/30/10 21:25	DPD-10-0149238	FIRE	99	P99 File Only	21:25:58			21:26:28	FO For File Only

**FIELD OBSERVATIONS**

<b>FACTs project name: Dayton</b>		<b>Form # ML5</b>
<b>Date: April 15, 2010</b>		
<b>Reporting IH:</b>	<b>Caoimhin P. Connell, Forensic IH</b>	

Indicator	Functional Space	Indicator	Functional Space
Acids	1①	Hydrogen peroxide	No Comment
Aerosol cans	1①	Iodine	No Comment
Alcohols (MeOH, EtOH)	1①	Kitty litter	No Comment
Ammonia	1①	Lead	No Comment
Ammunition	No Comment	Lithium	No Comment
Artistic expressions	1,2,3,4,6	Match components	No Comment
Bases	No Comment	Mercury	No Comment
Basters/Pipettes	1	Methamphetamine	1,2,3,4,5,6,7,8
Batteries	2①, 3①	Modified coolers	No Comment
Bi-phasic wastes	No Comment	Needles/Syringes	No Comment
Booby traps	No Comment	Other OTC	No Comment
Bullet holes	No Comment	pH papers/indicators	No Comment
Burn marks	No Comment	Phenyl-2-propanone	No Comment
Chemical storage	1①, 2, 5①, 7①,8	Pornography, Sex toys	No Comment
Colored wastes	No Comment	Prescription drugs	7
Corrosion on surfaces	No Comment	Presence of cats	No Comment
Delaminating paint	No Comment	Pseudoephedrine	No Comment
Drug paraphernalia	No Comment	Red P	No Comment
Empty OTC Containers	1	Red Staining	1
Ephedrine	No Comment	Salt	1
Electrical modifications	5,7	Smoke detectors disabled	No Comment
Faeces	No Comment	Solvents - ketones, etc	No Comment
Filters	No Comment	Solvents -aromatics	No Comment
Forced entry marks	No Comment	Squalor	1,2,3,4,5,6,7,8,9
Gang markings	6	Staining on floors	1
Gas cylinders	No Comment	Staining on walls or ceiling	1,3,6
Gerry cans	No Comment	Staining on floors	3,4,6
Glassware	1	Structural damage/modifications	5,8
Graffiti	No Comment	Urine containers	No Comment
Heating mantle	No Comment	Weapons	No Comment
Heet or similar (MeOH)	No Comment	Window block material	1,3,6
		Yellow staining	1,2,3,5,6

**Notes**

- 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



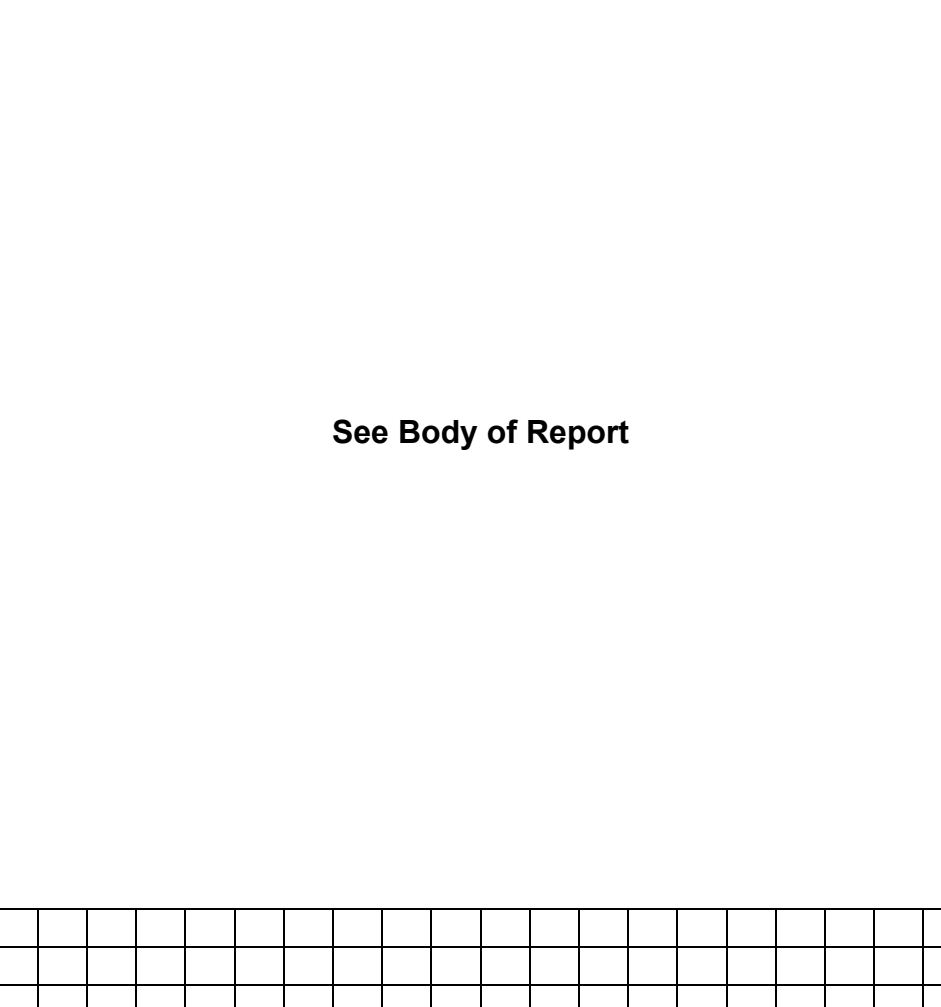
**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**



## CONTAMINANT MIGRATION OBSERVATIONS

FACTs project name: Dayton		Form # ML6
Date: April 15, 2010		
Reporting IH:	Caoimhín P. Connell, Forensic IH	

Describe/identify adjacent areas where contaminants may have migrated.



**See Body of Report**

Each grid equals approximately \_\_\_\_\_ (Approximate lay-out; Not to scale)

Describe the area: \_\_\_\_\_

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**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

# INDIVIDUAL SEWAGE DISPOSAL SYSTEM FIELD FORM

<b>FACTs project name: Dayton</b>		<b>Form # ML7</b>
<b>Date: April 15, 2010</b>		
<b>Reporting IH:</b>	<b>Caoimhin P. Connell, Forensic IH</b>	

	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
<del>Was the septic tank lid(s) accessible</del>			
<del>Was the leach field line accessible</del>			
<del>Was the septic tank or leach field lines opened</del>			
<del>Are solvent odors present from the leach field lines (if "yes" see below)</del>			
<del>Are solvent odors present from the septic tank (if "yes" see below)</del>			
<del>Is "slick" present in the septic tank</del>			
<del>Are biphasic (aqueous-organic) layers present in the septic tank</del>			
<del>Was pH measured in the septic tank (pH =7 to 8)</del>			
<del>Were organic vapors measured in the septic tank (if "yes" see below)</del>			
<del>Is sampling of the ISDS warranted</del>			
<del>Were calawasi/drum thief samples collected from the septic tank</del>			

\*NC = Not checked

## Qualitative Organic Vapor Monitoring

Hydrocarbon detector model	EnMet Target Series, MOS detector

Location	MOS*	PID*	FID*
Bathroom sink	<1ppm		
Kitchen sink	<1ppm		

\*Units of measurement are in parts per million equivalents compared to the calibration vapor.

## Notes

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**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

**PRE-REMEDIATION PHOTOGRAPH LOG SHEET**

<b>FACTs project name: Dayton</b>		<b>Form # ML8</b>
<b>Date: April 15, 2010</b>		
<b>Reporting IH:</b>	<b>Caoimhin P. Connell, Forensic IH</b>	

Name ^	Date taken	Name ^	Date taken
Back Hall	4/15/2010 11:58	Exterior (2)	4/15/2010 11:47
Back Hall (2)	4/15/2010 11:58	Exterior (3)	4/15/2010 11:47
Back Hall (3)	4/15/2010 12:06	Exterior (4)	4/15/2010 11:48
Back Hall (4)	4/15/2010 12:07	Exterior (5)	4/15/2010 11:48
Back Hall (5)	4/15/2010 12:07	Exterior (6)	4/15/2010 12:55
Back Hall (6)	4/15/2010 12:07	Exterior (7)	4/15/2010 12:55
Back Hall (7)	4/15/2010 12:08	Exterior (8)	4/15/2010 13:00
Back Hall (8)	4/15/2010 12:09	Exterior (9)	4/15/2010 13:00
Back Hall (9)	4/15/2010 12:09	Exterior (10)	4/15/2010 13:00
Bath Laundry	4/15/2010 11:58	Exterior (11)	4/15/2010 13:00
Bath Laundry (2)	4/15/2010 11:58	Exterior (12)	4/15/2010 13:00
Bath Laundry (3)	4/15/2010 11:59	Foyer	4/15/2010 11:48
Bath Laundry (4)	4/15/2010 11:59	Foyer (2)	4/15/2010 11:48
Bath Laundry (5)	4/15/2010 11:59	Foyer (3)	4/15/2010 11:50
Bath Laundry (6)	4/15/2010 11:59	Foyer (4)	4/15/2010 11:51
Bath Laundry (7)	4/15/2010 11:59	Foyer (5)	4/15/2010 11:51
Bath Laundry (8)	4/15/2010 12:05	Foyer (6)	4/15/2010 11:52
Bath Laundry (9)	4/15/2010 12:05	Foyer (7)	4/15/2010 11:53
Bath Laundry (10)	4/15/2010 12:05	Foyer (8)	4/15/2010 11:54
Bath Laundry (11)	4/15/2010 12:05	Foyer (9)	4/15/2010 11:54
Bath Laundry (12)	4/15/2010 12:05	Foyer (10)	4/15/2010 11:55
Bath Laundry (13)	4/15/2010 12:05	Foyer (11)	4/15/2010 11:55
Bath Laundry (14)	4/15/2010 12:05	Foyer (12)	4/15/2010 11:56
Bath Laundry (15)	4/15/2010 12:05	Foyer (13)	4/15/2010 11:56
Exterior	4/15/2010 11:47	Foyer (14)	4/15/2010 12:13

**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

# PRE-REMEDIATION PHOTOGRAPH LOG SHEET

<b>FACTs project name: Dayton</b>		<b>Form # ML8</b>
<b>Date: April 15, 2010</b>		
<b>Reporting IH:</b>	<b>Caoimhin P. Connell, Forensic IH</b>	

Name ^	Date taken	Name ^	Date taken
Foyer (15)	4/15/2010 12:14	NE Bedroom (6)	4/15/2010 11:57
Foyer (16)	4/15/2010 12:15	NW Bedroom	4/15/2010 11:58
Foyer (17)	4/15/2010 12:15	NW Bedroom (2)	4/15/2010 11:58
Foyer (18)	4/15/2010 12:15	NW Bedroom (3)	4/15/2010 11:58
Foyer (19)	4/15/2010 12:15	NW Bedroom (4)	4/15/2010 11:58
Foyer (20)	4/15/2010 12:28	NW Bedroom (5)	4/15/2010 11:58
Foyer (21)	4/15/2010 12:28	NW Bedroom (6)	4/15/2010 11:59
Kitchen	4/15/2010 11:49	NW Bedroom (7)	4/15/2010 12:00
Kitchen (2)	4/15/2010 11:50	NW Bedroom (8)	4/15/2010 12:30
Kitchen (3)	4/15/2010 11:50	NW Bedroom (9)	4/15/2010 12:30
Kitchen (4)	4/15/2010 11:50	NW Bedroom (10)	4/15/2010 12:30
Kitchen (5)	4/15/2010 11:50	NW Bedroom (11)	4/15/2010 12:30
Kitchen (6)	4/15/2010 11:50	NW Bedroom (12)	4/15/2010 12:35
Kitchen (7)	4/15/2010 11:50	NW Bedroom (13)	4/15/2010 12:35
Livingroom (2)	4/15/2010 11:48	Patio	4/15/2010 11:49
Livingroom (3)	4/15/2010 11:48	Patio (2)	4/15/2010 11:49
Livingroom (4)	4/15/2010 11:48	Patio (3)	4/15/2010 11:49
Livingroom (5)	4/15/2010 11:49	Patio (4)	4/15/2010 11:49
Livingroom (6)	4/15/2010 11:49	Patio (5)	4/15/2010 11:49
Livingroom (7)	4/15/2010 11:49	Patio (6)	4/15/2010 12:39
NE Bedroom	4/15/2010 11:51	Patio (7)	4/15/2010 12:39
NE Bedroom (2)	4/15/2010 11:51	Patio (8)	4/15/2010 12:40
NE Bedroom (3)	4/15/2010 11:51	Portico	4/15/2010 12:43
NE Bedroom (4)	4/15/2010 11:54	Portico (2)	4/15/2010 12:46
NE Bedroom (5)	4/15/2010 11:54	Portico (3)	4/15/2010 12:46



FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.



**FACTs project name: Dayton**

**Date: April 15, 2010**

### Reporting IH:

See Body of Report

Describe the area: \_\_\_\_\_

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FACTs project name: Dayton		Form # ML12
Date: April 15, 2010		
Reporting IH:	Caoimhín P. Connell, Forensic IH	

Each grid equals approximately \_\_\_\_\_ (Approximate lay-out; Not to scale)

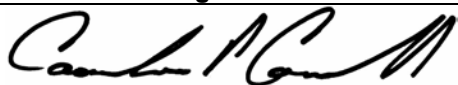

Describe the area: \_\_\_\_\_



**CERTIFICATION, VARIATIONS AND SIGNATURE SHEET**

<b>FACTs project name: Dayton</b>	<b>Form # ML14</b>
<b>Date: May 6, 2010</b>	
<b>Reporting IH:</b>	<b>Caoimhín P. Connell, Forensic IH</b>

## 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.	
<del>I do hereby certify that the property has been decontaminated in accordance with the procedures set forth in 6 CCR 1014-3, § 5.</del>	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
<del>I do hereby certify that I conducted post-decontamination clearance sampling in accordance with 6 CCR 1014-3, § 6.</del>	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
<del>I do hereby certify that the cleanup standards established by 6 CCR 1014-3, § 7 have been met as evidenced by testing I conducted.</del>	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
I do hereby certify that the analytical results reported here are faithfully reproduced.	

In the section below, describe any variations from the standard:  
No deviations.

**Pursuant to the language required in 6 CCR 1014-3, § 8:**

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: May 6, 2010



**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**





## FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

### CONSULTANT STATEMENT OF QUALIFICATIONS

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

<b>FACTs project name:</b>	<b>2525 S Dayton &amp; 3415 E 29<sup>th</sup></b>	<b>Form # ML15</b>
<b>Date May 7, 2010</b>		
<b>Reporting IH:</b>	<b>Caoimhín P. Connell, Forensic IH</b>	

Caoimhín P. Connell, is a private consulting forensic Industrial Hygienist meeting the definition of an "Industrial Hygienist" as that term is defined in the Colorado Revised Statutes §24-30-1402. He has been a practicing Industrial Hygienist in the State of Colorado since 1987; is the contract Industrial Hygienist for the National Center for Atmospheric Research and has been involved in clandestine drug lab (including meth-lab) investigations since 2002.

Mr. Connell is a recognized authority in methlab operations and is a Certified Meth-Lab Safety Instructor through the Colorado Regional Community Policing Institute (Colorado Department of Public Safety, Division of Criminal Justice). Mr. Connell has provided over 200 hours of methlab training for officers of over 25 Colorado Police agencies, 20 Sheriff's Offices, federal agents, and probation and parole officers from the 2<sup>nd</sup>, 7<sup>th</sup> and 9<sup>th</sup> 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, 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 (Certification Number B-10670); he is a member of the Colorado Drug Investigators Association, the American Industrial Hygiene Association, and the Occupational Hygiene Society of Ireland. Mr. Connell is an SME on the Department of Homeland Security IAB Health, Medical, and Responder Safety SubGroup, and will be conducting the AIHA 2010 Clandestine Drug Lab Professional Development Course.

He has received over 120 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 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."

Mr. Connell is also 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 170 assessments in illegal drug labs, and collected over 1,400 samples during assessments (a detailed list of 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. He has provided expert witness testimony in civil cases and testified before the Colorado Board of Health and Colorado Legislature Judicial Committee regarding methlab issues. Mr. Connell has provided private consumers, state officials and Federal Government representatives with forensic arguments against fraudulent industrial hygienists and other unauthorized consultants performing invalid methlab assessments.

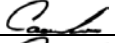
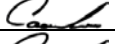
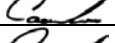
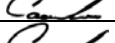
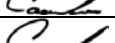
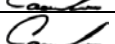


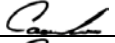
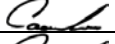

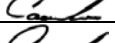



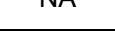
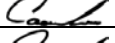

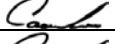
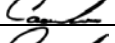

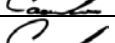
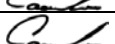

Mr. Connell, who is a committee member of the ASTM International Forensic Sciences Committee, was the sole sponsor of the draft ASTM E50 *Standard Practice for the Assessment of Contamination at Suspected Clandestine Drug Laboratories*, and he is a coauthor of a 2007 AIHA Publication on methlab assessment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

**185 BOUNTY HUNTER'S LANE, BAILEY, COLORADO 80421**

**PHONE: 303-903-7494** [www.forensic-applications.com](http://www.forensic-applications.com)

## FINAL DOCUMENTATION CHECKLIST

<b>FACTs project name: Dayton</b>	<b>Form # ML16</b>
<b>Date: April 15, 2010</b>	
<b>Reporting IH:</b>	<b>Caoimhin P. Connell, Forensic IH</b>

Mandatory Final Documents 6-CCR 1014-3	DOCUMENTATION	Included
§8.1	Property description field form	
§8.2	Description of manufacturing methods and chemicals	
§8.3	Law Enforcement documentation review discussion	
§8.4	Description and Drawing of Storage area(s)	
§8.5	Description and Drawing of Waste area(s)	
§8.6	Description and Drawing of Cook area(s)	
§8.7	Field observations field form	
	FACTs Functional Space inventory field form	
§8.8	Plumbing inspection field form	
	FACTs ISDS field form	
§8.9	Contamination migration field form	
§8.10	Identification of common ventilation systems	
§8.11	Description of the sampling procedures and QA/QC	
§8.12	Analytical Description and Laboratory QA/QC	
§8.13	Location and results of initial sampling with figure	
§8.14	FACTs health and safety procedures in accordance with OSHA	
§8.15	Contractor's description of decontamination procedures and each area that was decontaminated	NA
§8.16	Contractor's description of removal procedures each area where removal was conducted, and the materials removed	NA
§8.17	Contractor's description of encapsulation areas and materials	NA
§8.18	Contractor's description of waste management procedures	NA
§8.19	Drawing, location and results of final verification samples	
§8.20	FACTs Pre-remediation photographs and log	
	FACTs Post-remediation photographs and log	NA
§8.21	FACTs SOQ	
§8.22	Certification of procedures, results, and variations	
§8.23	Mandatory Certification Language	
§8.24	Signature Sheet	
	Analytical Laboratory Reports	
	FACTs Field Sampling Forms	



**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

## **APPENDIX B**

### **ANALYTICAL REPORTS FOR FACTS SAMPLES**

## SAMPLING FIELD FORM

<b>FACTs project name: Dayton</b>	<b>Form # ML17</b>
<b>Date: April 15, 2010</b>	<b>Alcohol Lot#: A0901      Gauze Lot#: G1001</b>
<b>Reporting IH: Caoimhín P. Connell, Forensic IH</b>	<b>Preliminary X   Intermediate ____   Final ____</b>

Sample ID DM041510-	Type	Location	Functional Space	Dimensions	Substrate
-01	W	Furnace return air inline fan housing in foyer hall plenum	2	18X4.5	Metal
-02	W	Furnace supply vent in NW Bedroom above door	6	1.5"X5"*2*6	Metal
-03	W	BX- Reserved		NA	
-04	W	Patio light fixture	8	45"X2"	Metal
-05	W	Portico light fixture	9	See notes	Glass

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

Dome of 9 inch diameter, stem wall zero, and height was 3 inches

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# ANALYTICAL CHEMISTRY INC.

Established in 1979

4611 S. 134th Place, Ste 200  
Tukwila WA 98168-3240

Website: [www.acilabs.com](http://www.acilabs.com)

Phone: 206-622-8353

E-mail: [info@acilabs.com](mailto:info@acilabs.com)

<b>Lab Reference:</b>	10122-05
<b>Date Received:</b>	April 20, 2010
<b>Date Completed:</b>	April 21, 2010

April 22, 2010

CAOIMHIN P CONNELL  
FORENSIC APPLICATIONS INC  
185 BOUNTY HUNTER'S LN  
BAILEY CO 80421

**CLIENT REF:** Dayton Street

**SAMPLES:** wipes/4

**ANALYSIS:** Methamphetamine by Gas Chromatography-Mass Spectrometry.

**RESULTS:** in total micrograms (ug)

<b>Sample</b>	<b>Methamphetamine, ug</b>	<b>% Surrogate Recovery</b>
DM041510 - 01	312	105
DM041510 - 02	143	91
DM041510 - 04	25.1	100
DM041510 - 05	0.818	105
QA/QC Method Blank	< 0.004	
QC 0.100 ug Standard	0.102	
QA 0.020 ug Matrix Spike	0.020	
QA 0.020 ug Matrix Spike Duplicate	0.019	
Method Detection Limit (MDL)	0.004	
Practical Quantitation Limit (PQL)	0.030	

'<': less than, not detected above the PQL

Robert M. Orheim  
Director of Laboratories





ANALYTICAL CHEMISTRY INC.

4611 S 134th Pl, Ste 200 Tukwila WA 98168-3240  
Website: [www.aclabs.com](http://www.aclabs.com)

**Phone: 206-622-8353**  
**FAX: 206-622-4623**

Page 1 of 1

Website: [www.acilabs.com](http://www.acilabs.com)

**FAX: 206-622-4623**

Please do not write in shaded areas

SAMPLING DATE:		April 14, 2010		REPORT TO:		Caoimhin P. Connell						ANALYSIS REQUESTED						
PROJECT Name/No:		Capps		COMPANY:		Forensic Applications, Inc.						1 Methamphetamine 2 Use entire contents 3 Nicotine 4 Amphetamines 5 6 Not Submitted						
eMail:		Fiosrach@aol.com		ADDRESS:		185 Bounty Hunters Lane, Bailey, CO 80421												
SAMPLER NAME:		Caoimhin P. Connell		PHONE		303-903-7494												
LAB Number	Sample Number	SAMPLE MATRIX			ANALYSIS REQUESTS						SAMPLER COMMENTS	LAB COMMENTS	No of Containers					
		Wipe	Vacuum	Other	1	2	3	4	5	6								
	CM041410-01	X			X	X									1			
	CM041410-02	X			X	X									1			
	CM041410-03	X			X	X									1			
	CM041410-04	X			X	X									1			
	CM041410-05	X			X	X									1			
	CM041410-06	X			X	X									6			
	CM041410-07	X			X	X									0			
					X													
					X													
					X													
CHAIN OF CUSTODY RECORD		Wipes Results in:			<input type="checkbox"/> µg/100cm <sup>2</sup>	<input checked="" type="checkbox"/> Total µg						Total Number of Containers (verified by laboratory)			5			
PRINT NAME	Signature	COMPANY	DATE	TIME	Turnaround Time	Custody Seals:	Yes	No	Container:	Broken	Temperature:	Cooled						
Caoimhin P. Connell	[Signature]	FACTS, Inc.	4/15/10	14:10	<input type="checkbox"/> 24 Hours (2X) <input type="checkbox"/> 2 Days (1.75X) <input type="checkbox"/> 3 Days (1.5X)		<input checked="" type="checkbox"/>		Intact		Ambient							
MIA SAZEN	[Signature]	ACT	4/26/10	1500	<input checked="" type="checkbox"/> Routing				MIA SAZEN									
						Lab File No.			10122-04									



# ANALYTICAL CHEMISTRY INC.

Established in 1979

4611 S. 134th Place, Ste 200  
Tukwila WA 98168-3240

Website: [www.acilabs.com](http://www.acilabs.com)

Phone: 206-622-8353

E-mail: [info@acilabs.com](mailto:info@acilabs.com)

<b>Lab Reference:</b>	10122-04
<b>Date Received:</b>	April 20, 2010
<b>Date Completed:</b>	April 21, 2010

April 22, 2010

CAOIMHIN P CONNELL  
FORENSIC APPLICATIONS INC  
185 BOUNTY HUNTER'S LN  
BAILEY CO 80421

**CLIENT REF:** [REDACTED]

**SAMPLES:** wipes/5

**ANALYSIS:** Methamphetamine by Gas Chromatography-Mass Spectrometry.

**RESULTS:** in total micrograms (ug)

Sample	Methamphetamine, ug	% Surrogate Recovery
[REDACTED]	[REDACTED]	[REDACTED]
CM041410 - 04	< 0.030	104
[REDACTED]	[REDACTED]	[REDACTED]
QA/QC Method Blank	< 0.004	
QC 0.100 ug Standard	0.102	
QA 0.020 ug Matrix Spike	0.020	
QA 0.020 ug Matrix Spike Duplicate	0.019	
Method Detection Limit (MDL)	0.004	
Practical Quantitation Limit (PQL)	0.030	

'<': less than, not detected above the PQL

Robert M. Orheim  
Director of Laboratories





## ANALYTICAL CHEMISTRY INC.

## CDL SAMPLING &amp; CUSTODY FORM

4611 S 134th Pl, Ste 200 Tukwila WA 98168-3240  
Website: www.acilabs.comPhone: 206-622-8353  
FAX: 206-622-4623Page 1 of 1  
Please do not write in shaded areas.

SAMPLING DATE:		April 15, 2010		REPORT TO:		Caoimhín P. Connell		ANALYSIS REQUESTED							
PROJECT Name/No:		Dayton Street		COMPANY:		Forensic Applications, Inc.		1 Methamphetamine 2 Use entire contents 3 Nicotine 4 Amphetamines 5 6 Not Submitted							
eMail:		Fiosrach@aol.com		ADDRESS:		185 Bounty Hunters Lane, Bailey, CO 80421									
SAMPLER NAME:		Caoimhín P. Connell		PHONE		303-903-7494									
LAB Number	Sample Number	SAMPLE MATRIX			ANALYSIS REQUESTS						SAMPLER COMMENTS	LAB COMMENTS	No of Containers		
		Wipe	Vacuum	Other	1	2	3	4	5	6					
	DM041510-01	X			X	X									1
	DM041510-02	X			X	X									1
	DM041510-03	X			X	X									0
	DM041510-04	X			X	X									1
	DM041510-05	X			X	X									1
	DM041510-06	X			X	X									0
	DM041510-07	X			X	X									0
					X										
					X										
					X										
CHAIN OF CUSTODY RECORD		Wipes Results in:			<input type="checkbox"/> µg/100cm <sup>2</sup>		<input checked="" type="checkbox"/> Total µg		Total Number of Containers (verified by laboratory)		4				
PRINT NAME	Signature	COMPANY	DATE	TIME	Turnaround Time	Custody Seals:	Yes	No	Container:	Intact	Broken				
Caoimhín P. Connell		FACTS, Inc.	4/15/10	14:10	<input type="checkbox"/> 24 Hours (2X)										
MIA SAZON		ACI	4/20/10	1500	<input type="checkbox"/> 2 Days (1.75X)	Temperature:	Ambient	Cooled	Inspected By:	MIA SAZON					
					<input type="checkbox"/> 3 Days (1.5X)	Lab File No.	10122-05								
					<input checked="" type="checkbox"/> Routine										



## **APPENDIX C**

### **COMPACT DIGITAL DISK (PHOTOGRAPHS AND ADDITIONAL DOCUMENTATION)**

