

**REPORT OF DRINKING WATER SAMPLING FOR  
LEAD CONTENT AT:**

**OAKLAND ELEMENTARY SCHOOL  
310 NORTH TEETER STREET  
OAKLAND, ILLINOIS 61943**

*PREPARED FOR:*

**MR. LANCE LANDECK  
SUPERINTENDENT  
OAKLAND COMMUNITY UNIT SCHOOL DISTRICT #5  
310 NORTH TEETER STREET  
OAKLAND, ILLINOIS 61943**

*PREPARED BY:*

**ENVIRONMENTAL CONSULTANTS, LLC  
#6 MEADOW HEIGHTS PROFESSIONAL PARK  
COLLINSVILLE, ILLINOIS 62234  
(618) 343-3590**

**OCTOBER 3, 2017**

**DOCUMENT TO BE RETAINED INDEFINITELY**

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Oakland Community Unit School District #5  
Oakland Elementary School  
310 North Teeter Street  
Oakland, Illinois 61943

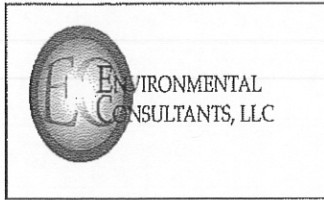
EXECUTIVE SUMMARY

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APPENDIX B ..... Laboratory Analysis

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# EXECUTIVE SUMMARY



## ENVIRONMENTAL CONSULTANTS, LLC

### *Illinois Office*

#6 Meadow Heights Professional Park Drive  
Oakland, Illinois 62234  
Phone (618) 343-3590  
Fax: (618) 343-3597

October 3, 2017

Mr. Lance Landeck Superintendent  
Oakland Community Unit School District #5  
310 North Teeter Street  
Oakland, Illinois 61943

**Subject: Results of Drinking Water Testing for Lead Content**

**Site(s): Oakland Elementary School  
310 North Teeter Street  
Oakland, Illinois 61943**

Dear Mr. Landeck,

On the morning of September 26, 2017, Environmental Consultants, LLC (EC) performed lead testing of multiple water sources at the Oakland Elementary School located at 310 North Teeter Street in Oakland, Illinois. Sampling was performed by trained and licensed personnel in accordance with USEPA, HUD and State of Illinois Regulations and Guidelines.

All inspectors involved with sampling activities had EPA approved training in Lead. Certifications for our firm and the inspector collecting the samples is included as Appendix C to this document.

All samples were collected on a "first draw" basis. "First draw" is achieved by allowing the water system to rest for at least eight hours prior to sampling in order to collect any existing debris or settlement within the sample. The intent of this sampling is to replicate "worst case scenario" conditions. As such, EC inspectors met at the school at 6:00 a.m. to collect water samples before the systems were used by staff or students. A second sample from each water source was collected as a "follow up" sample basis. "Follow-up" sampling is achieved by allowing the water system to run for thirty (30) seconds after the first draw sampling. The intent of this sampling is to determine if lead contamination may be in the water lines connected to the water sources and not just at the fixture. Sampling was completed in accordance with the Illinois Senate Bill 550 requirements. The Illinois Department of Public Health (IDPH) and other regulatory agencies recommend that water sources run for at least thirty seconds and as long as two minutes prior to use to avoid settling within the water system.



Drinking water samples were collected from twenty-seven (27) different locations throughout Oakland Elementary School during the sampling event. Several water sources were non-functional and not sampled during this site visit. These non-functional sources were the sink in Room 123, the hallway and gymnasium porcelain drinking fountains. The water samples were collected from drinking fountains and sinks potentially utilized for cooking or drinking activities at the campus. After sample collection, samples were immediately iced down and delivered to Teklab, Inc. located in Collinsville, Illinois following strict chain of custody procedures. Teklab is a NELAP accredited and State of Illinois licensed laboratory specializing in drinking water analysis. Detailed sampling locations and sample results are located in Appendix A of this report.

The analytical sensitivity utilized for the analysis of the water samples submitted identified a reporting limit (RL) of 1.0 micrograms per liter ( $\mu\text{g/L}$ ). The analytical sensitivity utilized for the analysis of the water samples submitted identified a reporting limit (RL) of 1.0 microgram of lead per liter ( $\mu\text{g/L}$ ). This reporting value equates to 1.0 parts per billion (ppb) of lead. The USEPA action level for lead in drinking water is 15.0 ppb for PSW. The USEPA document titled "Lead in Drinking Water at Schools and Child Care Facilities" last updated November 9, 2015 identifies an action level for drinking water collected from a plumbing fixture as 20.0 ppb. **Fifty-four of the fifty-five (55) samples collected from the selected locations at the Oakland Elementary School reported sample results which were less than the USEPA action level.** This information can be found under the National Primary Drinking Water Regulations provided by the EPA, CFR 2010 Title 40. (See Appendix A and B for Sample Results)

**The following results are greater than the action level.**

**"First Draw" Sampling**

**Sample ID 7                      Room 109 – Sink (16.5 ppb)**

At this time, EC recommends all water sources testing at 15 ppb or above should be removed from service. These sources are subject to additional maintenance activities and response actions prior to use. Before being put back in service, EC recommends these sources be re-tested to confirm compliance with acceptable levels. In addition, all sources will be subject to an ongoing maintenance program and re-testing at appropriate intervals. **Any samples reported over 10 ppb should be re-sampled on an annual basis at a minimum.**

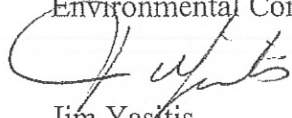
**Although no additional samples were identified above the USEPA action level, EC recommends that all water sources run for at least thirty seconds prior to use as recommended by the USEPA.**

**The following results require written notification per the Illinois Senate Bill 550 for samples reported above 5 ppb.**

Sample 1	Kitchen – Hand Sink	(6.3 ppb)
Sample 4	Dishwashing Room - Sprayer	(9.2 ppb)
Sample 6	Room 111 – Sink	(14.1 ppb)
Sample 7	Room 109 – Sink	(16.5 ppb)
Sample 8	Room 108 – Sink	(9.8 ppb)
Sample 10	Room 106 – Sink	(7.8 ppb)
Sample 27	Room 124 – Sink	(13.8 ppb)

EC is pleased to provide this information to Oakland Community Unit School District #5 and we appreciate the opportunity to provide quality environmental consulting services. Please call us at (618) 343-3590 if you have any questions or to arrange a meeting to discuss.

Sincerely,  
Environmental Consultants, LLC



Jim Yasitis  
Principal

**APPENDIX A**  
**SAMPLE LOCATIONS & RESULTS**

**TABLE 1**

**Drinking Water Sampling for Lead Content  
Oakland Community Unit School District #5  
Oakland Elementary School  
Sampled: September 26, 2017**

<b>Sample ID</b>	<b>Location</b>	<b>Water Source</b>	<b>Results (ppb)</b>
1	Kitchen – Hand Sink	Sink	6.3
1A	Kitchen – Hand Sink	Sink	<1.0
2	Kitchen – 3 Bay (east)	Sink	3.5
2A	Kitchen – 3 Bay (east)	Sink	2.1
3	Kitchen – 3 Bay (middle)	Sink	4.9
3A	Kitchen – 3 Bay (middle)	Sink	1.3
3B	Kitchen – 3 Bay (middle)	Sink	<1.0
4	Dishwashing Room	Sprayer	9.2
4A	Dishwashing Room	Sprayer	1.1
5	Dishwashing Room – Single Bay	Sink	1.0
5A	Dishwashing Room – Single Bay	Sink	1.6
6	Room 111	Sink	14.1
6A	Room 111	Sink	3.0
7	Room 109	Sink	16.5
7A	Room 109	Sink	1.5
8	Room 108	Sink	9.8
8A	Room 108	Sink	2.3
9	Hallway o/s Room 107	Fountain	<1.0
9A	Hallway o/s Room 107	Fountain	<1.0
10	Room 106	Sink	7.8
10A	Room 106	Sink	2.1
11	Hallway o/s Room 105	Fountain	<1.0
11A	Hallway o/s Room 105	Fountain	<1.0
12	Room 105	Sink	<1.0
12A	Room 105	Sink	<1.0
13	Room 104	Sink	<1.0
13A	Room 104	Sink	<1.0
14	Room 103	Sink	<1.0
14A	Room 103	Sink	<1.0
15	Room 102	Sink	1.1
15A	Room 102	Sink	<1.0
16	Hallway o/s Room 101	Fountain	<1.0
16A	Hallway o/s Room 101	Fountain	<1.0
17	Room 101	Sink	1.9
17A	Room 101	Sink	<1.0
18	Nurse’s Office	Sink	<1.0
18A	Nurse’s Office	Sink	<1.0
19	Hallway o/s Main Office	Fountain	1.0
19A	Hallway o/s Main Office	Fountain	<1.0

<b>Sample ID</b>	<b>Location</b>	<b>Water Source</b>	<b>Results (ppb)</b>
20	Room 116	Sink	<1.0
20A	Room 116	Sink	<1.0
21	Room 117	Sink	<1.0
21A	Room 117	Sink	<1.0
22	Room 118	Sink	1.4
22A	Room 118	Sink	1.2
23	Room 119	Sink	<1.0
23A	Room 119	Sink	<1.0
24	Room 120	Sink	<1.0
24A	Room 120	Sink	<1.0
25	Hallway o/s Room 120	Fountain	<1.0
25A	Hallway o/s Room 120	Fountain	<1.0
26	Hallway o/s Room 122	Fountain	<1.0
26A	Hallway o/s Room 122	Fountain	<1.0
27	Room 124	Sink	13.8
27A	Room 124	Sink	1.9

A/B Samples were precautionary samples collected at 30 seconds following the “first draw” samples (A) and 3 minutes following the A sample (B).

#####

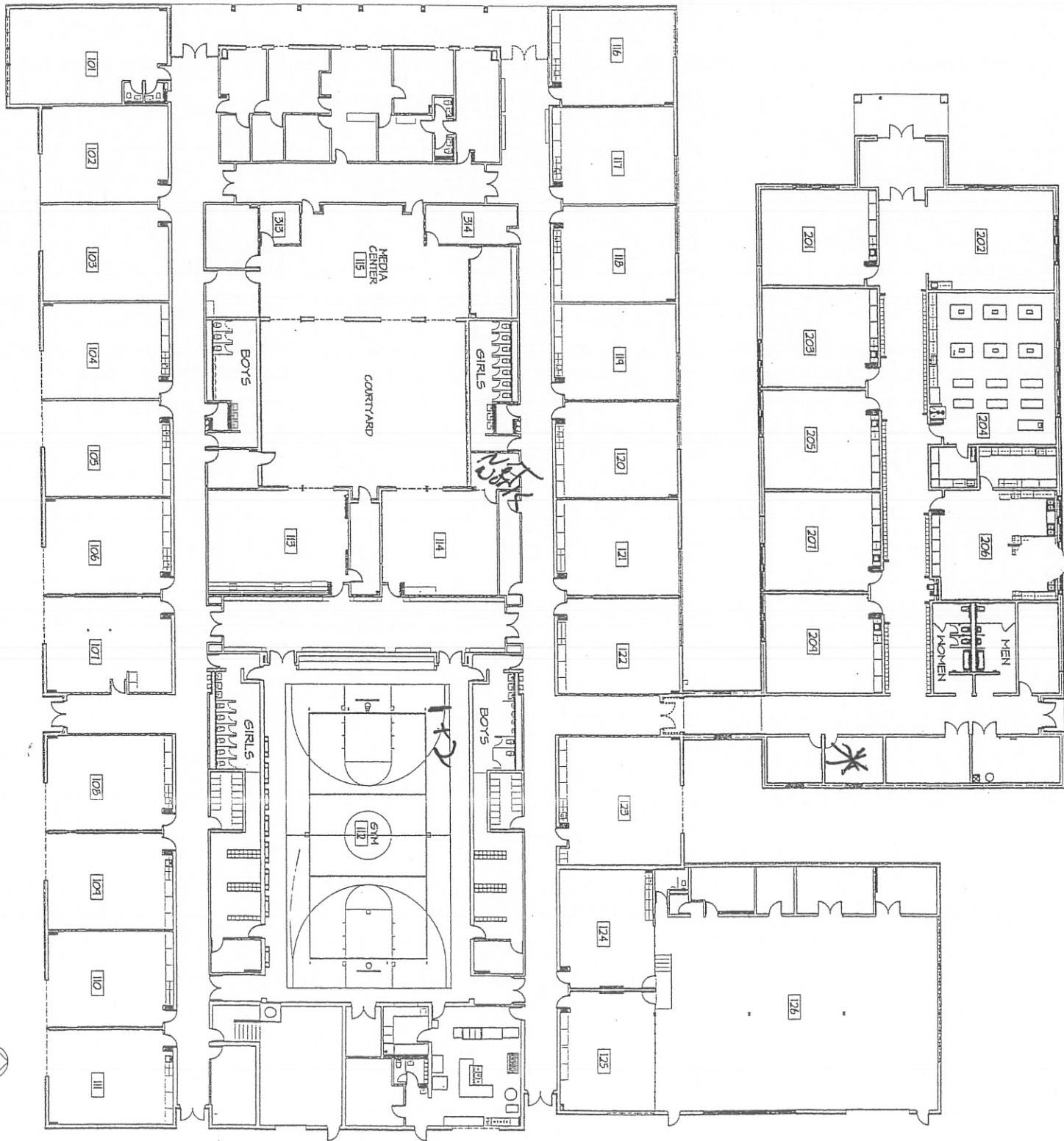
Water sources in excess of 20 ppb. Recommendation is to remove from service immediately. Do not return to service until re-testing confirms mitigation was effective.

#####

Water source is < 20 ppb, but still displays evidence of lead. Recommendation is to re-test source on an annual basis at a minimum



Gym



LAKECREST ELEMENTARY AND OAKLAND HIGH SCHOOL



**APPENDIX B**  
**LABORATORY ANALYSIS**



October 02, 2017

Jeff Faust  
Environmental Consultants, LLC  
#6 Meadow Heights Professional Park  
Collinsville, IL 62234  
TEL: (618) 343-3590  
FAX: (618) 343-3597



**RE:** DW Lead 17-0-420 Oakland Elem.

**WorkOrder:** 17091528

Dear Jeff Faust:

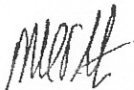
TEKLAB, INC received 55 samples on 9/26/2017 2:14:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Michael L. Austin  
Project Manager  
(618)344-1004 ex 16  
MAustin@teklabinc.com



## Report Contents

<http://www.teklabinc.com/>

**Client:** Environmental Consultants, LLC

**Work Order:** 17091528

**Client Project:** DW Lead 17-0-420 Oakland Elem.

**Report Date:** 02-Oct-17

This reporting package includes the following:

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Chain of Custody	Appended

Client: Environmental Consultants, LLC

Work Order: 17091528

Client Project: DW Lead 17-0-420 Oakland Elem.

Report Date: 02-Oct-17

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                                      | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range                           | H - Holding times exceeded                             |
| I - Associated internal standard was outside method criteria | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit                     | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits                   | T - TIC(Tentatively identified compound)               |
| X - Value exceeds Maximum Contaminant Level                  |  |



## Case Narrative

<http://www.teklabinc.com/>

Client: Environmental Consultants, LLC  
Client Project: DW Lead 17-0-420 Oakland Elem.

Work Order: 17091528  
Report Date: 02-Oct-17

Cooler Receipt Temp: N/A °C

Samples were collected in 250mL containers.

Date/time of last use: 9/25/17 21:00

### Locations

#### Collinsville

Address 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
Phone (618) 344-1004  
Fax (618) 344-1005  
Email [jhriley@teklabinc.com](mailto:jhriley@teklabinc.com)

#### Collinsville Air

Address 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
Phone (618) 344-1004  
Fax (618) 344-1005  
Email [EHurley@teklabinc.com](mailto:EHurley@teklabinc.com)

#### Springfield

Address 3920 Pintail Dr  
Springfield, IL 62711-9415  
Phone (217) 698-1004  
Fax (217) 698-1005  
Email [KKlostermann@teklabinc.com](mailto:KKlostermann@teklabinc.com)

#### Chicago

Address 1319 Butterfield Rd.  
Downers Grove, IL 60515  
Phone (630) 324-6855  
Fax  
Email [jhriley@teklabinc.com](mailto:jhriley@teklabinc.com)

#### Kansas City

Address 8421 Nieman Road  
Lenexa, KS 66214  
Phone (913) 541-1998  
Fax (913) 541-1998  
Email [jhriley@teklabinc.com](mailto:jhriley@teklabinc.com)



## Accreditations

<http://www.teklabinc.com/>

Client: Environmental Consultants, LLC

Work Order: 17091528

Client Project: DW Lead 17-0-420 Oakland Elem.

Report Date: 02-Oct-17

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2018	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2018	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2018	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2018	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2018	Collinsville
Arkansas	ADEQ	88-0966		3/14/2018	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		1/31/2018	Collinsville
Kentucky	KDEP	98006		12/31/2017	Collinsville
Kentucky	UST	0073		1/31/2018	Collinsville
Louisiana	LDPH	LA170027		12/31/2017	Collinsville
Missouri	MDNR	930		1/31/2018	Collinsville
Missouri	MDNR	00930		5/31/2017	Collinsville
Oklahoma	ODEQ	9978		8/31/2018	Collinsville
Tennessee	TDEC	04905		1/31/2018	Collinsville





# Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Consultants, LLC

Work Order: 17091528

Client Project: DW Lead 17-0-420 Oakland Elem.

Report Date: 02-Oct-17

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>									
<b>Lead</b>									
17091528-001A	1	NELAP		1.0	6.3	µg/L	1	09/27/2017 12:04	09/26/2017 6:00
17091528-002A	1A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 11:42	09/26/2017 6:00
17091528-003A	2	NELAP		1.0	3.5	µg/L	1	09/27/2017 11:48	09/26/2017 6:00
17091528-004A	2A	NELAP		1.0	2.1	µg/L	5	10/02/2017 11:34	09/26/2017 6:00
17091528-005A	3	NELAP		1.0	4.9	µg/L	1	09/27/2017 11:53	09/26/2017 6:00
17091528-006A	3A	NELAP		1.0	1.3	µg/L	1	09/27/2017 11:59	09/26/2017 6:00
17091528-007A	3B	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 15:22	09/26/2017 6:00
17091528-008A	4	NELAP		1.0	9.2	µg/L	5	10/02/2017 11:39	09/26/2017 6:00
17091528-009A	4A	NELAP		1.0	1.1	µg/L	1	09/27/2017 15:27	09/26/2017 6:00
17091528-010A	5	NELAP		1.0	1.0	µg/L	1	09/27/2017 15:33	09/26/2017 6:00
17091528-011A	5A	NELAP		1.0	1.6	µg/L	1	09/27/2017 15:38	09/26/2017 6:00
17091528-012A	6	NELAP		1.0	14.1	µg/L	1	09/27/2017 15:44	09/26/2017 6:00
17091528-013A	6A	NELAP		1.0	3.0	µg/L	1	09/27/2017 15:49	09/26/2017 6:00
17091528-014A	7	NELAP		1.0	16.5	µg/L	5	10/02/2017 11:45	09/26/2017 6:00
17091528-015A	7A	NELAP		1.0	1.5	µg/L	1	09/27/2017 15:55	09/26/2017 6:00
17091528-016A	8	NELAP		1.0	9.8	µg/L	1	09/27/2017 16:01	09/26/2017 6:00
17091528-017A	8A	NELAP		1.0	2.3	µg/L	1	09/27/2017 16:06	09/26/2017 6:00
17091528-018A	9	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 16:12	09/26/2017 6:00
17091528-019A	9A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 16:34	09/26/2017 6:00
17091528-020A	10	NELAP		1.0	7.8	µg/L	1	09/27/2017 12:10	09/26/2017 6:00
17091528-021A	10A	NELAP		1.0	2.1	µg/L	1	09/27/2017 16:56	09/26/2017 6:00
17091528-022A	11	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 16:39	09/26/2017 6:00
17091528-023A	11A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 16:45	09/26/2017 6:00
17091528-024A	12	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 16:50	09/26/2017 6:00
17091528-025A	12A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 17:46	09/26/2017 6:00
17091528-026A	13	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 17:51	09/26/2017 6:00
17091528-027A	13A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 17:57	09/26/2017 6:00
17091528-028A	14	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 18:02	09/26/2017 6:00
17091528-029A	14A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 18:08	09/26/2017 6:00
17091528-030A	15	NELAP		1.0	1.1	µg/L	1	09/27/2017 18:13	09/26/2017 6:00
17091528-031A	15A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 18:19	09/26/2017 6:00
17091528-032A	16	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 18:24	09/26/2017 6:00
17091528-033A	16A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 18:30	09/26/2017 6:00
17091528-034A	17	NELAP		1.0	1.9	µg/L	1	09/27/2017 18:36	09/26/2017 6:00
17091528-035A	17A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 18:58	09/26/2017 6:00
17091528-036A	18	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 19:03	09/26/2017 6:00
17091528-037A	18A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 19:09	09/26/2017 6:00
17091528-038A	19	NELAP		1.0	1.0	µg/L	1	09/27/2017 19:14	09/26/2017 6:00
17091528-039A	19A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 19:20	09/26/2017 6:00
17091528-040A	20	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 17:01	09/26/2017 6:00
17091528-041A	20A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 20:32	09/26/2017 6:00
17091528-042A	21	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 19:25	09/26/2017 6:00
17091528-043A	21A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 19:31	09/26/2017 6:00
17091528-044A	22	NELAP		1.0	1.4	µg/L	1	09/27/2017 19:37	09/26/2017 6:00
17091528-045A	22A	NELAP		1.0	1.2	µg/L	1	09/27/2017 19:42	09/26/2017 6:00
17091528-046A	23	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 19:48	09/26/2017 6:00
17091528-047A	23A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 20:10	09/26/2017 6:00
17091528-048A	24	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 20:15	09/26/2017 6:00



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Consultants, LLC

Work Order: 17091528

Client Project: DW Lead 17-0-420 Oakland Elem.

Report Date: 02-Oct-17

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>									
<b>Lead</b>									
17091528-049A	24A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 20:21	09/26/2017 6:00
17091528-050A	25	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 20:26	09/26/2017 6:00
17091528-051A	25A	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 21:22	09/26/2017 6:00
17091528-052A	26	NELAP		1.0	< 1.0	µg/L	1	09/27/2017 21:27	09/26/2017 6:00
17091528-053A	26A	NELAP		1.0	< 1.0	µg/L	5	10/02/2017 11:56	09/26/2017 6:00
17091528-054A	27	NELAP		1.0	13.8	µg/L	1	09/27/2017 21:33	09/26/2017 6:00
17091528-055A	27A	NELAP		1.0	1.9	µg/L	1	09/27/2017 20:38	09/26/2017 6:00





# Receiving Check List

<http://www.teklabinc.com/>

Client: Environmental Consultants, LLC

Work Order: 17091528

Client Project: DW Lead 17-0-420 Oakland Elem.

Report Date: 02-Oct-17

Carrier: Darrell M. Bough

Received By: AMD

Completed by:

*Amber M. Dilallo*

Reviewed by:

*Elizabeth A. Hurley*

On:

26-Sep-17

On:

26-Sep-17

Amber M. Dilallo

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition? Yes  No

Type of thermal preservation? None  Ice

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Reported field parameters measured: Field  Lab

Container/Temp Blank temperature in compliance? Yes  No

Not Present

Temp °C N/A

Blue Ice

Dry Ice

NA

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

Water - at least one vial per sample has zero headspace? Yes  No

No VOA vials

Water - TOX containers have zero headspace? Yes  No

No TOX containers

Water - pH acceptable upon receipt? Yes  No

NA

NPDES/CWA TCN interferences checked/treated in the field? Yes  No

NA

Any No responses must be detailed below or on the COC.

Samples were checked for turbidity then preserved with nitric acid upon arrival at the laboratory.

# CHAIN OF CUSTODY

pg. 1 of 6 Work order # 1701528

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client: Environmental Consultants, LLC  
 Address: #6 Meadow Heights Professional Park  
 Collinsville, IL 62234  
 Contact: Jeff Faust Phone: (618) 343-3590  
 E-Mail: jeff@environmentalconsultantsllc.com Fax: (618) 343-3597

Samples on:  ICE  BLUE ICE  NO ICE NA °C  
 Preserved in:  LAB  FIELD FOR LAB USE ONLY  
 Lab Notes

Client Comments: *Results in ppb  
 School shut down 9:00 PM 9-25-17*

Are these samples known to be involved in litigation? If yes, a surcharge will apply  Yes  No  
 Are these samples known to be hazardous?  Yes  No  
 Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section.  Yes  No

Project Name/Number <i>17-0-420 Oakland Elem.</i>	Sample Collector's Name <i>D. Bough / D. Lawrence</i>	Billing Instructions	Date/Time Sampled	INDICATE ANALYSIS REQUESTED																	
				Drinking Water	Soil	Sludge	Special Waste	Groundwater	Lead (DW)												
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)				<input checked="" type="checkbox"/>																	
Lab Use Only																					
<i>1701528-001</i>			<i>06:00 9-26-17</i>																		
<i>002 1A</i>																					
<i>003 2A</i>																					
<i>004 2A</i>																					
<i>005 3</i>																					
<i>006 3A</i>																					
<i>007 3B</i>																					
<i>008 4</i>																					
<i>009 4A</i>																					
<i>010 5</i>																					
<i>David M Bough</i>			<i>9-26-17 1414</i>																		

# CHAIN OF CUSTODY

pg. 2 of 6 Work order # 1091528

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client: Environmental Consultants, LLC  
 Address: #6 Meadow Heights Professional Park  
 Collinsville, IL 62234  
 Contact: Jeff Faust Phone: (618) 343-3590  
 E-Mail: jeff@environmentalconsultantsllc.com Fax: (618) 343-3597

Samples on:  ICE  BLUE ICE  NO ICE \_\_\_\_\_ °C  
 Preserved in:  LAB  FIELD FOR LAB USE ONLY  
 Lab Notes

Client Comments: Results in ppb  
 School shut down 9:00 PM 9-25-17

Are these samples known to be involved in litigation? If yes, a surcharge will apply  Yes  No  
 Are these samples known to be hazardous?  Yes  No  
 Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section.  Yes  No

Project Name/Number: 17-0-420  
 DW Lead: Oakland Elem.  
 Sample Collector's Name: D. Bough / D. Lawrence  
 Billing Instructions: [Blank]  
 # and Type of Containers: OTHER, NaHSO4, MeOH, HCL, H2SO4, NaOH, HNO3, UNPRES

MATRIX	INDICATE ANALYSIS REQUESTED
Aqueous	
Drinking Water	<input checked="" type="checkbox"/>
Soil	
Sludge	
Special Waste	
Groundwater	
Lead (DW)	<input checked="" type="checkbox"/>

Lab Use Only	Sample Identification	Date/Time Sampled	Relinquished By	Date/Time
1091528	5A	06:00 9-26-17	Jeff Faust	9-26-17 1414
012	6			
013	6A			
014	7			
015	7A			
016	8			
017	8A			
018	9			
019	9A			
020	10			

Relinquished By: [Signature]  
 Date/Time: 9-26-17 1414  
 Received By: [Signature]  
 Date/Time: 9-26-17 1414



Client: Environmental Consultants, LLC  
 Address: #6 Meadow Heights Professional Park  
 City / State / Zip: Collinsville, IL 62234  
 Contact: Jeff Faust Phone: (618) 343-3590  
 E-Mail: jeff@environmentalconsultantsllc.com Fax: (618) 343-3597

Samples on:  ICE  BLUE ICE  NO ICE \_\_\_\_\_ °C  
 Preserved in:  LAB  FIELD FOR LAB USE ONLY  
 Lab Notes  
 Client Comments: Results in ppb  
 School shut down 9:00 PM 9-25-17

Are these samples known to be involved in litigation? If yes, a surcharge will apply  Yes  No  
 Are these samples known to be hazardous?  Yes  No  
 Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section.  Yes  No

Project Name/Number: 17-0-420  
 Sample Collector's Name: D. Bough / D. Lawrence  
 Billing Instructions: OTHER, NaHSO4, MeOH, HCL, H2SO4, NaOH, HNO3, UNPRES

Lab Use Only	Sample Identification	Date/Time Sampled	INDICATE ANALYSIS REQUESTED
021	10A	06:00 9-26-17	Drinking Water <input checked="" type="checkbox"/>
022	11		
023	11A		
024	12		
025	12A		
026	13		
027	13A		
028	14		
029	14A		
030	15		

Relinquished By: *[Signature]* Date/Time: 9-26-17 1414  
 Received By: *[Signature]* Date/Time: 9/26/17 1414

# CHAIN OF CUSTODY

pg. 4 of 6 Work order # 17091528

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client: Environmental Consultants, LLC  
 Address: #6 Meadow Heights Professional Park  
 Collinsville, IL 62234  
 City / State / Zip: Collinsville, IL 62234  
 Contact: Jeff Faust Phone: (618) 343-3590  
 E-Mail: jeff@environmentalconsultantsllc.com Fax: (618) 343-3597

Samples on:  ICE  BLUE ICE  NO ICE \_\_\_\_\_ °C  
 Preserved in:  LAB  FIELD FOR LAB USE ONLY  
 Lab Notes

Client Comments: *Results in ppb  
 School shut down 9:00 PM 9-25-17*

Are these samples known to be involved in litigation? If yes, a surcharge will apply  Yes  No  
 Are these samples known to be hazardous?  Yes  No  
 Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section.  Yes  No

Project Name/Number: DW Lead 17-0-420  
 Sample Collector's Name: D. Bough / D. Lawrence  
 Billing Instructions: Oakland Elem.

MATRIX	INDICATE ANALYSIS REQUESTED										
Aqueous											
Drinking Water	<input checked="" type="checkbox"/>										
Soil											
Sludge											
Special Waste											
Groundwater											
Lead (DW)	<input checked="" type="checkbox"/>										

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers
17091528	15A	06:00 9-26-17	<input checked="" type="checkbox"/> OTHER
032	16		<input type="checkbox"/> NaHSO4
033	16A		<input type="checkbox"/> MeOH
034	17		<input type="checkbox"/> HCL
035	17A		<input type="checkbox"/> H2SO4
036	18		<input type="checkbox"/> NaOH
037	18A		<input type="checkbox"/> HNO3
038	19		<input type="checkbox"/> UNPRES
039	19A		
040	20		

Requisitioned By: Wendy Bough Date/Time: 9-26-17 1414  
 Received By: Emory Ollano Date/Time: 9/27/17 1414

# CHAIN OF CUSTODY

pg. 5 of 6 Work order # 17091528

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client: Environmental Consultants, LLC  
 Address: #6 Meadow Heights Professional Park  
 Collinsville, IL 62234  
 Contact: Jeff Faust Phone: (618) 343-3590  
 E-Mail: jeff@environmentalconsultantsllc.com Fax: (618) 343-3597

Samples on:  ICE  BLUE ICE  NO ICE \_\_\_\_\_ °C  
 Preserved in:  LAB  FIELD FOR LAB USE ONLY  
 Lab Notes

Client Comments: *Results in ppb  
 School shut down 9:00 PM 9-25-17*

Are these samples known to be involved in litigation? If yes, a surcharge will apply  Yes  No  
 Are these samples known to be hazardous?  Yes  No  
 Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section.  Yes  No

Project Name/Number: DW Lead 17-0-420  
 Sample Collector's Name: D. Bough / D. Lawrence

Matrix	INDICATE ANALYSIS REQUESTED											
	Drinking Water	Soil	Sludge	Special Waste	Groundwater	Lead (DW)						
Aqueous	<input checked="" type="checkbox"/>											
Drinking Water	<input checked="" type="checkbox"/>											
Soil												
Sludge												
Special Waste												
Groundwater												
Lead (DW)												

Billing Instructions:  Standard  1-2 Day (100% Surcharge)  Other  3 Day (50% Surcharge)

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers	OTHER	NaHSO4	MeOH	HCL	H2SO4	NaOH	HNO3	UNPRES
17091528	20A	06:00 9-26-17	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	
042	21										
045	21A										
044	22										
045	22A										
046	23										
047	23A										
048	24										
049	24A										
050	25		<input checked="" type="checkbox"/>								

Relinquished By: Wendell M Bough Date/Time: 9-26-17 1414  
 Received By: Emilio Delgado Date/Time: 9/26/17 1414







TABLE 1

Drinking Water Sampling for Lead Content  
 Oakland Community Unit School District #5  
 Oakland Elementary School  
 Sampled: September 26, 2017

Sample ID	Location	Water Source	Results (ppb)
1	Kitchen – Hand Sink	Sink	
1A	Kitchen – Hand Sink	Sink	
2	Kitchen – 3 Bay (east)	Sink	
2A	Kitchen – 3 Bay (east)	Sink	
3	Kitchen – 3 Bay (middle)	Sink	
3A	Kitchen – 3 Bay (middle)	Sink	
3B	Kitchen – 3 Bay (middle)	Sink	
4	Dishwashing Room	Sprayer	
4A	Dishwashing Room	Sprayer	
5	Dishwashing Room – Single Bay	Sink	
5A	Dishwashing Room – Single Bay	Sink	
6	Room 111	Sink	
6A	Room 111	Sink	
7	Room 109	Sink	
7A	Room 109	Sink	
8	Room 108	Sink	
8A	Room 108	Sink	
9	Hallway o/s Room 107	Fountain	
9A	Hallway o/s Room 107	Fountain	
10	Room 106	Sink	
10A	Room 106	Sink	
11	Hallway o/s Room 105	Fountain	
11A	Hallway o/s Room 105	Fountain	
12	Room 105	Sink	
12A	Room 105	Sink	
13	Room 104	Sink	
13A	Room 104	Sink	
14	Room 103	Sink	
14A	Room 103	Sink	
15	Room 102	Sink	
15A	Room 102	Sink	
16	Hallway o/s Room 101	Fountain	
16A	Hallway o/s Room 101	Fountain	
17	Room 101	Sink	
17A	Room 101	Sink	
18	Nurse’s Office	Sink	
18A	Nurse’s Office	Sink	
19	Hallway o/s Main Office	Fountain	
19A	Hallway o/s Main Office	Fountain	

Sample ID	Location	Water Source	Results (ppb)
20	Room 116	Sink	
20A	Room 116	Sink	
21	Room 117	Sink	
21A	Room 117	Sink	
22	Room 118	Sink	
22A	Room 118	Sink	
23	Room 119	Sink	
23A	Room 119	Sink	
24	Room 120	Sink	
24A	Room 120	Sink	
25	Hallway o/s Room 120	Fountain	
25A	Hallway o/s Room 120	Fountain	
26	Hallway o/s Room 122	Fountain	
26A	Hallway o/s Room 122	Fountain	
27	Room 124	Sink	
27A	Room 124	Sink	

A/B Samples were precautionary samples collected at 30 seconds following the "first draw" samples (A) and 3 minutes following the A sample (B).

■ Water sources in excess of 20 ppb. Recommendation is to remove from service immediately. Do not return to service until re-testing confirms mitigation was effective.

##### Water source is < 20 ppb, but still displays evidence of lead. Recommendation is to re-test source on an annual basis at a minimum

**APPENDIX C  
CREDENTIALS**



525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • [www.idph.illinois.gov](http://www.idph.illinois.gov)

1/6/2017

LICENSE NUMBER: 001222

David J Lawrence  
6 Meadow Heights Prof Park  
Collinsville, IL 62234



LICENSE APPROVED

IDPH recently received and reviewed your application for lead licensure. Your qualifications have been reviewed and found that you meet the requirements set forth by the Lead Poisoning Prevention Code, Section 845.125. Therefore, your application for lead licensure is now complete. Enclosed please find your lead license card. Please have this identification card with you at all times while conducting lead abatement activities.

If you have any questions, please call (217) 782-5830 or for the hearing impaired, TTY (800) 547-0466.

Front of License

Back of License

 <b>LEAD RISK ASSESSOR LICENSE</b>		Alteration of this license shall result in legal action <b>RISK ASSESSOR CERTIFICATE EXPIRES</b> 12/5/2019
<b>LEAD ID</b> 001222	<b>ISSUED</b> 1/6/2017	<b>EXPIRES</b> 1/31/2018
David J Lawrence 6 Meadow Heights Prof Park Collinsville, IL 62234		 ILLINOIS LEAD PROGRAM Environmental Health
This license issued under authority of the State of Illinois -Department of Public Health This license is valid only when accompanied by a valid training course certificate If found return to 525 W. Jefferson St Springfield, IL 62761		

IDPH has updated its 7 – Day Notice of Commencement identified by its 9/16 revision date on the bottom left the new form as soon as possible. The revised form is located (<http://www.idph.illinois.gov/sites/default/files/091916.pdf>).

 <b>LEAD RISK ASSESSOR LICENSE</b>		 ILLINOIS LEAD PROGRAM Environmental Health
<b>LEAD ID</b> 001222	<b>ISSUED</b> 1/6/2017	
David J Lawrence 6 Meadow Heights Prof Park Collinsville, IL 62234		<b>EXPIRES</b> 1/31/2018

can be  
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COLLEGE FOR  
**PUBLIC HEALTH & SOCIAL JUSTICE**

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

**Dave Lawrence**

1805 Bowler Rd, O'Fallon, IL 62269

has attended 8 contact hours of training and successfully passed an examination

**Lead Risk Assessor Refresher**

St. Louis, MO

Certificate # CEET 325 - 12/22/2015 - 118941

Examination Date: 12/22/2015

CEUs: 0.8

Certificate expiration is 6 years from examination date for Illinois Dept. of Public Health

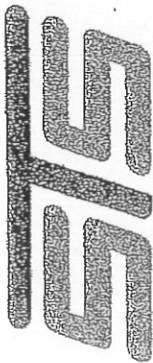
Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104

(314) 977-8256 [slu.edu/ceet](mailto:slu.edu/ceet)

This training course has been accredited by the Illinois Department of Public Health, and by the Missouri Department of Health & Senior Services.

*Christopher C. King*  
Christopher C. King PhD  
Director, Center for Environmental  
Education and Training





**SAFETY TECHNOLOGIES & SOLUTIONS, L.L.C.**  
**"EXCELLENCE IN SAFETY ENGINEERING"**

6520 Manchester Avenue  
 St. Louis, Missouri 63139  
 Phone: (314) 644-3323  
 Fax: (314) 644-3303

Environmental Health and Occupational Safety Consultants

Does hereby certify that

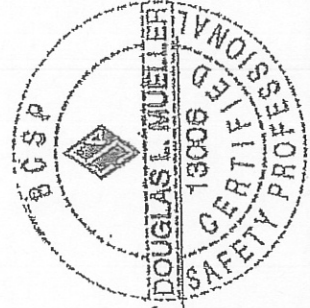
**Darrell Bough**

3767 18th Street, Charleston, IL, 61920

*has successfully completed and passed the course examination  
 with a minimum score of 70 percent for accreditation under  
 Illinois Adm. Code 845, and Missouri 19 CSR 30-70*

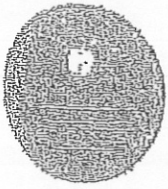
Lead Inspector Initial

Class Date: March 31-April 2, 2008  
 Examination Date: 04/02/2008  
 Certificate Number: STS20080402-0120LII  
 Certificate Expiration: 04/02/2009  
 Student SSN: 359-56-6761



*D. Mueller*

Douglas L. Mueller, MS, CSP  
 Certified Safety Professional  
 OSHA Authorized Instructor



STATE OF ILLINOIS  
 ENVIRONMENTAL PROTECTION AGENCY  
 NELAP - RECOGNIZED  
 ENVIRONMENTAL LABORATORY ACCREDITATION

is hereby granted to

TEKLAB, INCORPORATED  
 5445 HORSESHOE LAKE RD.  
 COLLINSVILLE, IL 62234  
 NELAP ACCREDITED  
 ACCREDITATION NUMBER #100226



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Celeste M. Crowley  
 Supervisor  
 Environmental Laboratory Accreditation Program

John South  
 Accreditation Officer  
 Environmental Laboratory Accreditation Program

Certificate No.: 003772  
 Expiration Date: 01/31/2017  
 Issued On: 12/16/2015



State of Illinois  
 Environmental Protection Agency  
 Awards the Certificate of Approval to:

Teklab, Incorporated  
 5445 Horseshoe Lake Rd.  
 Collinsville, IL 62234

According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

FOT Name: Drinking Water, Inorganic

Method: SM212DB,18Ed

Matrix Type: Potable Water

Color

Method: SM2130B,18Ed

Matrix Type: Potable Water

Turbidity

Method: SM2320B,18Ed

Matrix Type: Potable Water

Alkalinity

Method: SM2340B,18Ed

Matrix Type: Potable Water

Hardness

Method: SM2340C,18Ed

Matrix Type: Potable Water

Hardness

Method: SM2510B,21Ed

Matrix Type: Potable Water

Conductivity

Method: SM2540C,18Ed

Matrix Type: Potable Water

Total dissolved solids

Method: SM2350,18Ed

Matrix Type: Potable Water

Temperature

Method: SM3112B,18Ed

Matrix Type: Potable Water

Mercury

Method: SM4500Cl-G,18Ed

Matrix Type: Potable Water

State of Illinois  
 Environmental Protection Agency  
 Awards the Certificate of Approval

Teklab, Incorporated  
 5445 Horseshoe Lake Rd.  
 Collinsville, IL 62234

FOI Name: Drinking Water, Inorganic

Method: SM4500Cl-G, 18Ed

Matrix Type: Potable Water

Chlorine (free, combined, total)

Method: SM4500CN-E, 18Ed

Matrix Type: Potable Water

Cyanide

Method: SM4500F-C, 18Ed

Matrix Type: Potable Water

Fluoride

Method: SM4500H-B, 18Ed

Matrix Type: Potable Water

Hydrogen Ion (pH)

Method: SM4500NO2-B, 18Ed

Matrix Type: Potable Water

Nitrite

Method: SM4500P-E, 18Ed

Matrix Type: Potable Water

Orthophosphate

Method: SM4500Si-E, 18Ed

Matrix Type: Potable Water

Silica

Method: SM5310C, 19Ed

Matrix Type: Potable Water

Dissolved Organic Carbon

Total Organic Carbon (TOC)

Method: USEPA180.4

Matrix Type: Potable Water

Turbidity

Method: USEPA200.7R4.4

Matrix Type: Potable Water

Aluminum

Barium

Beryllium

Cadmium

Calcium

Chromium

Copper

Iron

Magnesium

Manganese

Nickel

Silver

Sodium

Zinc

State of Illinois  
 Environmental Protection Agency  
 Awards the Certificate of Approval

Teklab, Incorporated  
 5445 Horseshoe Lake Rd.  
 Collinsville, IL 62234

FOT Name: Drinking Water, Inorganic	Method: USEPA200.8R5.4
Matrix Type: Potable Water	
Aluminum	Antimony
Arsenic	Barium
Beryllium	Cadmium
Chromium	Copper
Lead	Manganese
Molybdenum	Nickel
Selenium	Silver
Thallium	Zinc
Method: USEPA248.1R3.0	
Matrix Type: Potable Water	
Mercury	
Method: USEPA353.2R2.0	
Matrix Type: Potable Water	
Nitrate	Nitrite
FOT Name: Non Potable Water, Inorganic	
Method: OIA-4677-09(L.Kahn)	
Matrix Type: NPW	
Cyanide, Available	
Method: SWI 4500 S2-D,2000	
Matrix Type: NPW/SCM	
Sulfide	
Method: SM2120B,2001	
Matrix Type: NPW	
Color	
Method: SM2130B,2001	
Matrix Type: NPW/SCM	
Turbidity	
Method: SM2310B,1997	
Matrix Type: NPW/SCM	
Acidity	
Method: SM2320B,1997	
Matrix Type: NPW/SCM	
Alkalinity	

State of Illinois  
 Environmental Protection Agency  
 Awards the Certificate of Approval

Teklab, Incorporated  
 5445 Horseshoe Lake Rd.  
 Collinsville, IL 62234

FOT Name: Non Potable Water, Inorganic

Method: SM2340B, 1997

Matrix Type: NPW

Hardness

Method: SM2340C, 1997

Matrix Type: NPW

Hardness

Method: SM2510B, 1997

Matrix Type: NPW

Specific conductance

Method: SM2540B, 1997

Matrix Type: NPW

Residue (Total)

Method: SM2540C, 1997

Matrix Type: NPW

Residue (TDS)

Method: SM2540D, 1997

Matrix Type: NPW

Residue (TSS)

Method: SM2540E, 1997

Matrix Type: NPW/SCM

Residue (settleable)

Method: SM2580B, 2000

Matrix Type: NPW/SCM

Temperature

Method: SM3112B, 2009

Matrix Type: NPW/SCM

Mercury

Method: SM3120B, 1999

Matrix Type: NPW/SCM

Aluminum

Arsenic

Beryllium

Cadmium

Chromium

Copper

Antimony

Barium

Boron

Calcium

Cobalt

Iron



State of Illinois  
 Environmental Protection Agency  
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Teklab, Incorporated  
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FOT Name: Non Potable Water, Inorganic

Method: SM3120B, 1999

Matrix Type: NPW/SCM

Magnesium

Molybdenum

Phosphorus

Selenium

Sodium

Vanadium

Lead

Manganese

Nickel

Potassium

Silver

Thallium

Zinc

Method: SM3500Cr-B, 2009

Matrix Type: NPW/SCM

Chromium VI

Method: SM4500CL-G, 1997

Matrix Type: NPW/SCM

Chloride

Method: SM4500CL-E, 1997

Matrix Type: NPW/SCM

Chloride

Method: SM4500CL-G, 2000

Matrix Type: NPW/SCM

Chlorine, Total Residual

Method: SM4500CN-E, 1999

Matrix Type: NPW

Cyanide

Method: SM4500CN-G, 1999

Matrix Type: NPW/SCM

Cyanide, Available

Method: SM4500F-C, 1997

Matrix Type: NPW

Fluoride

Method: SM4500H-B, 2000

Matrix Type: NPW

Hydrogen Ion (pH)

Method: SM4500NH3-H, 1997

Matrix Type: NPW/SCM

Ammonia

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FOI Name: Non Potable Water, Inorganic

Method: SM4500NO2-B,2000

Matrix Type: NPW/SCM

Nitrite

Method: SM4500NO3-F,2000

Matrix Type: NPW/SCM

Nitrate-nitrite (as N)

Method: SM4500O-G,2001

Matrix Type: NPW

Oxygen - Dissolved

Method: SM4500P-E,1999

Matrix Type: NPW/SCM

Orthophosphate (as P)

Phosphorus

Method: SM4500SO3-B,2000

Matrix Type: NPW/SCM

Sulfite

Method: SM5210B,2001

Matrix Type: NPW

Biochemical Oxygen Demand (BOD)

Carbonaceous Biochemical Oxygen Demand (CBOD)

Method: SM5220D,1997

Matrix Type: NPW

Chemical Oxygen Demand (COD)

Method: SM5310C,2000

Matrix Type: NPW

Total organic carbon (TOC)

Method: SM5540G,2000

Matrix Type: NPW

Surfactants

Method: USEPA120.1,1982

Matrix Type: NPW

Specific conductance

Method: USEPA160.4,1971

Matrix Type: NPW/SCM

Residue (Volatile)

Method: USEPA1631E

Matrix Type: NPW

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FOT Name: Non Potable Water, Inorganic

Method: USEPA1631E

Matrix Type: NPW

Mercury

Method: USEPA1664A

Matrix Type: NPW

Oil and Grease

Method: USEPA180.1R2.0,1993

Matrix Type: NPW

Turbidity

Method: USEPA200.7,1994

Matrix Type: NPW/SGM

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

Thallium

Tin

Titanium

Vanadium

Zinc

Method: USEPA200.8,1994

Matrix Type: NPW

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

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FDT Name: Non Potable Water, Inorganic

Method: USEPA200.8,1994

Matrix Type: NPW

Selenium

Silver

Sodium

Thallium

Tin

Titanium

Vanadium

Zinc

Method: USEPA245.1R3.0,1994

Matrix Type: NPW/SCM

Mercury

Method: USEPA335.4R1.0,1993

Matrix Type: NPW

Cyanide

Method: USEPA350.1R2.0,1993

Matrix Type: NPW

Ammonia

Method: USEPA351.2R2.0,1993

Matrix Type: NPW/SCM

Total Kjeldahl Nitrogen

Method: USEPA353.2R2.0,1993

Matrix Type: NPW/SCM

Nitrate

Nitrate-nitrite (as N)

Nitrite (as N)

Method: USEPA365.4,1974

Matrix Type: NPW/SCM

Phosphorus

Method: USEPA375.2R2.0,1993

Matrix Type: NPW

Sulfate

Method: USEPA410.4R2.0,1993

Matrix Type: NPW

Chemical Oxygen Demand (COD)

Method: USEPA420.1,1978

Matrix Type: NPW/SCM

Phenolics

Method: USEPA420.4R1.0,1993



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FOT Name: Non Potable Water, Inorganic

Method: USEPA420.4R1.0,1993

Matrix Type: NPW

Phenolics

FOT Name: Non Potable Water, Organic

Method: USEPA608

Matrix Type: NPW/SCM

4,4'-DDD

4,4'-DDE

4,4'-DDT

Aldrin

alpha-BHC

beta-BHC

Chlordane

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan sulfate

Endrin

Endrin aldehyde

gamma-BHC (Lindane)

Heptachlor

Heptachlor epoxide

Methoxychlor

PCB-1016

PCB-1221

PCB-1232

PCB-1242

PCB-1248

PCB-1254

PCB-1260

Toxaphene

Method: USEPA615

Matrix Type: NPW

2,4,5-T

2,4,5-TP (Sivex)

2,4-D

Dicamba

Method: USEPA624

Matrix Type: NPW/SCM

1,1,1-Trichloroethane

1,1,2,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1-Dichloroethane

1,1-Dichloroethene

1,2-Dichlorobenzene

1,2-Dichloroethane

1,2-Dichloropropane

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2-Chloroethylvinyl ether

Acetonitrile

Acrolein (Propenal)

Acrylonitrile

Benzene

Bromodichloromethane

Bromoform

Bromomethane

Carbon tetrachloride

Chlorobenzene

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FOT Name: Non Potable Water, Organic

Method: USEPA624

Matrix Type: NPW/SCM

Chloroform  
cis-1,3-Dichloropropene  
Dichloromethane (Methylene chloride)  
Methyl tert-butyl ether (MTBE)  
Toluene  
trans-1,3-Dichloropropene  
Trichlorofluoromethane  
Xylenes (total)

Chloroethane  
Chloromethane  
Dibromochloromethane  
Ethylbenzene  
Tetrachloroethene  
trans-1,2-Dichloroethene  
Trichloroethene  
Vinyl chloride

Method: USEPA625

Matrix Type: NPW/SCM

1,2,4-Trichlorobenzene  
1,3-Dichlorobenzene  
2,2-Oxybis (1-chloropropane)  
2,4-Dichlorophenol  
2,4-Dinitrophenol  
2,6-Dinitrotoluene (2,6-DNT)  
2-Chlorophenol  
2-Nitrophenol  
4-Bromophenyl phenyl ether  
4-Chlorophenyl phenyl ether  
Acenaphthene  
Anthracene  
Benzo(a)anthracene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Bis(2-chloroethoxy) methane  
Bis(2-ethylhexyl) phthalate  
Dibenz(a,h)anthracene  
Dinethyl phthalate  
Di-n-octyl phthalate  
Fluorene  
Hexachlorobutadiene  
Hexachloroethane  
Isophorone

1,2-Dichlorobenzene  
1,4-Dichlorobenzene  
2,4,6-Trichlorophenol  
2,4-Dimethylphenol  
2,4-Dinitrotoluene (2,4-DNT)  
2-Chloronaphthalene  
2-Methyl-4,6-dinitrophenol  
3,3'-Dichlorobenzidine  
4-Chloro-3-methylphenol  
4-Nitrophenol  
Acenaphthylene  
Benzidine  
Benzo(a)pyrene  
Benzo(g,h,i)perylene  
Benzyl butyl phthalate  
Bis(2-chloroethyl) ether  
Chrysene  
Diethyl phthalate  
Di-n-butyl phthalate  
Fluoranthene  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Indeno(1,2,3-cd) pyrene  
Naphthalene

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FOT Name: Non Potable Water, Organic

Method: USEPA625

Matrix Type: NPW/SCM

Nitrobenzene

N-Nitrosodimethylamine

N-Nitrosodi-n-propylamine

N-Nitrosodiphenylamine

Pentachlorophenol

Phenanthrene

Phenol

Pyrene

FOT Name: Solid and Chemical Materials, Inorganic

Method: 1010A

Matrix Type: NPW/SCM

Ignitability

Method: 1020B

Matrix Type: NPW/SCM

Ignitability

Method: 1311

Matrix Type: NPW/SCM

TCLP (Organic and Inorganic)

Method: 1312

Matrix Type: NPW/SCM

Synthetic Precipitation Leaching Procedure

Method: 6010B

Matrix Type: NPW/SCM

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

Strontium

Thallium

Tin

Titanium

Vanadium

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FOT Name: Solid and Chemical Materials, Inorganic

Method: 6010B

Matrix Type: NPW/SCM

Zinc

Method: 6020A

Matrix Type: NPW

Calcium

Matrix Type: NPW/SCM

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silver

Sodium

Thallium

Vanadium

Zinc

Method: 7496A

Matrix Type: NPW/SCM

Chromium VI

Method: 7470A

Matrix Type: NPW

Mercury

Method: 7471B

Matrix Type: NPW/SCM

Mercury

Method: 9012A

Matrix Type: NPW

Cyanide

Method: 9014

Matrix Type: NPW/SCM

Cyanide

Method: 9020B

Matrix Type: NPW/SCM



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FOT Name: Solid and Chemical Materials, Inorganic

Method: 9020B

Matrix Type: NPW/SCM

TOX (Total Organic Halides)

Method: 9023

Matrix Type: NPW/SCM

EOX-Extractable Organic Halides

Method: 9034

Matrix Type: NPW/SCM

Sulfides

Method: 9036

Matrix Type: NPW/SCM

Sulfate

Method: 9038

Matrix Type: NPW

Sulfate

Method: 9040B

Matrix Type: NPW

Hydrogen Ion (pH)

Method: 9045C

Matrix Type: SCM

Hydrogen Ion (pH)

Method: 9050A

Matrix Type: NPW

Specific conductance

Method: 9060A

Matrix Type: NPW/SCM

Total Organic Carbon (TOC)

Method: 9065

Matrix Type: NPW/SCM

Phenolics

Method: 9066

Matrix Type: NPW

Phenolics

Method: 9095A

Matrix Type: NPW

Paint Filter

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FOT Name: Solid and Chemical Materials, Inorganic

Method: 9214

Matrix Type: NPW/SGM

Fluoride

Method: 9251

Matrix Type: NPW

Chloride

FOT Name: Solid and Chemical Materials, Organic

Method: 8015B

Matrix Type: NPW/SGM

1,4-Dioxane

1-Butanol (n-Butyl alcohol)

1-Propanol

2-Methyl-1-propanol (Isobutyl alcohol)

2-Propanol (Isopropyl alcohol)

Diesel range organics (DRO)

Ethanol

Ethylene glycol

Methanol

t-Butyl alcohol

Method: 8081B

Matrix Type: NPW/SGM

4,4'-DDD

4,4'-DDE

4,4'-DDT

Alachlor

Aldrin

alpha-BHC

alpha-Chlordane

beta-BHC

Chlordane - not otherwise specified

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan sulfate

Endrin

Endrin aldehyde

Endrin ketone

gamma-BHC (Lindane)

gamma-Chlordane

Hepiachlor

Hepiachlor epoxide

Methoxychlor

Toxaphene

Method: 8082

Matrix Type: NPW/SGM

PCB-1016

PCB-1221

PCB-1232

PCB-1242

PCB-1248

PCB-1254

PCB-1260

Method: 8151A

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FOT Name: Solid and Chemical Materials, Organic

Method: 8151A

Matrix Type: NPW/SCM

2,4,5-T	2,4,5-TP (Silvex)
2,4-D	2,4-DB
3,5-Dichlorobenzoic acid	4-Nitrophenol
Acifluorfen	Bentazon
Chloramben	Dalapon
DCPA diacid	Dicamba
Dichloroprop	Dinoseb
MCPA	MGPP
Pentachlorophenol	Picloram

Method: 8260B

Matrix Type: NPW/SCM

1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane	1,1,2-Trichloroethane
1,1-Dichloroethane	1,1-Dichloroethene
1,1-Dichloropropene	1,2,3-Trichlorobenzene
1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene
1,2-Dichloroethane	1,2-Dichloropropane
1,3,5-Trimethylbenzene	1,3-Dichlorobenzene
1,3-Dichloropropane	1,4-Dichlorobenzene
1-Chlorobutane	2,2-Dichloropropane
2-Butanone (Methyl ethyl ketone, MEK)	2-Chloro-1,3-butadiene (Chloroprene)
2-Chloroethyl vinyl ether	2-Chlorotoluene
2-Hexanone	2-Nitropropane
4-Chlorotoluene	4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)
Acetone	Acetonitrile
Acrolein (Propenal)	Acrylonitrile
Allyl chloride	Benzene
Bromobenzene	Bromochloromethane
Bromodichloromethane	Bromoform
Bromomethane	Carbon disulfide
Carbon tetrachloride	Chlorobenzene
Chlorodibromomethane (Dibromochloromethane)	Chloroethane

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FOT Name: Solid and Chemical Materials, Organic

Method: 8260B

Matrix Type: NPWISCM

Chloroethane	Chloroform
cis-1,2-Dichloroethene	Chloroprene
cis-1,4-Dichloro-2-butene	cis-1,3-Dichloropropene
Dichlorodifluoromethane	Dibromomethane
Diethyl ether	Dichloromethane (Methylene chloride)
Ethyl ether	Ethyl acetate
Ethylbenzene	Ethyl methacrylate
Hexachloroethane	Hexachlorobutadiene
Isopropylbenzene	Isopropyl ether
Methyl acetate	Methacrylonitrile
Methyl iodide (iodomethane)	Methyl ethyl ketone
Methyl methacrylate	Methyl isobutyl ketone
m-Xylene	Methyl-t-butyl ether
n-Butylbenzene	Naphthalene
n-Propylbenzene	Nitrobenzene
Pentachloroethane	o-Xylene
Propionitrile (Ethyl cyanide)	p-Isopropyltoluene
sec-Butylbenzene	p-Xylene
t-Butyl alcohol	Styrene
Tetrachloroethene	tert-Butylbenzene
Toluene	Tetrahydrofuran
trans-1,3-Dichloropropene	trans-1,2-Dichloroethene
Trichloroethene	trans-1,4-Dichloro-2-butene
Trichlorodifluoroethane	Trichlorofluoromethane
Vinyl chloride	Vinyl acetate
Xylenes (Total)	Vinylidene chloride

Method: 8270C

Matrix Type: NPW

1,4-Naphthoquinone	1-Naphthylamine
2-Naphthylamine	3,3'-Dimethylbenzidine
3-Methylcholanthrene	4-Aminobiphenyl
5-Nitro-o-toluidine	7,12-Dimethylbenz(a)anthracene
Acetophenone	Chlorobenzilate
Diallate	Dimethoate



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FOT Name: Solid and Chemical Materials, Organic

Method: 8270G

Matrix Type: NPW

Ethyl methanesulfonate  
 Hexachloropropene  
 Isosafrole  
 Methyl methanesulfonate  
 N-Nitrosopiperidine  
 O,O,O-Triethyl phosphorothioate  
 p-Dimethylaminocazobenzene  
 Pronamide

Diphenylamine  
 Fampaur  
 Isodrin  
 m-Dinitrobenzene  
 N-Nitrosodi-n-butylamine (N-Nitrosodibutylamine)  
 N-Nitrosopyrrolidine  
 Parathion  
 Pentachloronitrobenzene  
 Safrole

Matrix Type: NPW/SGM

1,2,4,5-Tetrachlorobenzene  
 1,2-Dichlorobenzene  
 1,3-Dichlorobenzene  
 1,4-Dioxane  
 2,4,6-Trichlorophenol  
 2,4-Dimethylphenol  
 2,4-Dinitrotoluene (2,4-DNT)  
 2-Chloronaphthalene  
 2-Methylnaphthalene  
 2-Nitrophenol  
 3-Nitroaniline  
 4-Bromophenyl phenyl ether  
 4-Chloroaniline  
 4-Nitroaniline  
 Acenaphthene  
 Aniline  
 Benzidine  
 Benzo(a)pyrene  
 Benzo(g,h,i)perylene  
 Benzoic acid  
 Bis(2-chloroethoxy) methane  
 Bis(2-chloroisopropyl) ether  
 Butyl benzyl phthalate  
 Carbofuran (Furaden)  
 Dibenz(a,h)anthracene

1,2,4-Trichlorobenzene  
 1,2-Diphenylhydrazine  
 1,4-Dichlorobenzene  
 2,4,5-Trichlorophenol  
 2,4-Dichlorophenol  
 2,4-Dinitrophenol  
 2,6-Dinitrotoluene (2,6-DNT)  
 2-Chlorophenol  
 2-Nitroaniline  
 3,3'-Dichlorobenzidine  
 4,6-Dinitro-2-methylphenol  
 4-Chloro-3-methylphenol  
 4-Chlorophenyl phenyl ether  
 4-Nitrophenol  
 Acenaphthylene  
 Anthracene  
 Benzo(a)anthracene  
 Benzo(b)fluoranthene  
 Benzo(k)fluoranthene  
 Benzyl alcohol  
 Bis(2-chloroethyl) ether  
 Bis(2-ethylhexyl) phthalate  
 Carbazole  
 Chrysene  
 Dibenzofuran

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FOI Name: Solid and Chemical Materials, Organic

Method: 8270C

Matrix Type: NPW/SGM

Dimethyl phthalate

Di-n-octylphthalate

Fluorene

Hexachlorobutadiene

Hexachloroethane

Isophthalate

Methylpyrene

Nitrobenzene

N-Nitrosodimethylamine

N-Nitrosodiphenylamine

o-Cresol (2-Methylphenol)

p-Cresol (4-Methylphenol)

Pentachlorophenol

Phenol

Pyridine

Diethyl phthalate

Di-n-butyl phthalate

Fluoranthene

Hexachlorobenzene

Hexachlorocyclopentadiene

Indeno(1,2,3-cd) pyrene

m-Cresol (3-Methylphenol)

Naphthalene

N-Nitrosodethylamine

N-Nitrosodi-n-propylamine

N-Nitrosomethylethylamine

o-Toluidine

Pentachlorobenzene

Phenanthrene

Pyrene

Method: 8270C Mod\_Farm Chemicals

Matrix Type: NPW/SGM

Acetochlor

Atrazine

Cyanazine

Metolachlor

Pendimethalin

Trifluralin

Alachlor

Butylate

EPTC

Metribuzin

Simazine