



June 10, 2008

Mr. Stephen Schop, Esq.  
Maier Management Corporation  
C/O Schop & Pleskow, LLP  
Brisbane Building  
403 Main Street, Suite 605  
Buffalo, NY 14203

Re: Phase II Site Investigation Services  
1655 Main Street, Buffalo NY

Dear Mr. Schop:

In accordance with our May 2, 2008 proposal, Benchmark Environmental Engineering and Science, PLLC (Benchmark) has completed a Phase II Site Investigation for the property located at 1655 Main Street, Buffalo, New York (see Figure 1). A description of our approach to the work and the investigation findings are presented below. Areas investigated and discussed within this report are identified on Figure 1.

#### BACKGROUND

Benchmark met with you in April 2008 to discuss potential environmental concerns that were identified in a Phase I Environmental Site Assessment (ESA) conducted by AFI Environmental Consultants (February 2008) for the subject property, owned by Maier Management Corporation, on behalf of KBH Properties, LLC. The ESA identified several recognized environmental conditions (RECs), most notably concerns related to historic petroleum underground storage tanks (USTs) associated with a former filling station that reportedly operated at the Site until the mid-1940s. You indicated at that time, that you planned on having the USTs removed to facilitate sale of the property.

Based on the findings of the Phase I ESA and Benchmark's review of historical documents (i.e. Sanborn maps, site reconnaissance, etc.), Benchmark recommended a Phase II Site Investigation to evaluate whether impacted soil was present due to historic gasoline station operations.

#### PHASE II SITE INVESTIGATION

The Phase II investigation generally included the following activities:

- Completion of a soil investigation program across the site. The soil investigation included soil borings across the site to determine potential impacts associated with

suspect underground storage tanks (USTs) and to provide general characterization of the property.

- Collection and analyses of soil samples to determine if petroleum impacts, if identified, were present above current New York State Department of Environmental Conservation (NYSDEC) recommended soil cleanup objectives (RSCOs).

## METHODS

The soil investigation involved completion of a soil boring investigation program under the direction of Benchmark's environmental scientist, Mr. Nathan Munley. On May 14, 2008, Benchmark's designated subcontractor, TREC Environmental, mobilized a track-mounted Geoprobe® rig, and completed seven soil borings, identified as SB-1 through SB-7, at various locations across the Site. Soil samples were collected with an approximate 1.5-inch diameter, approximate 48 inch long macro-core sampler. Soil samples were generally collected within each borehole continuously from the ground surface until approximately 12 to 14 feet below the ground surface (fbgs) (i.e., the target depth) to assess the unsaturated soils. Any down hole equipment was decontaminated with an Alconox and water wash and tap water rinse between boreholes. The cutting shoes were decontaminated in a similar manner between the collection of each sample. Soil boring locations are shown on Figure 1.

The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method). Field screening of soil borings for total VOC concentrations was completed using a photoionization detector (PID). PID measurements were recorded in the project field book and described below.

## FIELD OBSERVATIONS

As indicated on Figure 1, six soil borings (SB-1 through SB-6) were completed in the portion of the property adjacent to Main Street. These locations were selected to investigate and characterize the portion of the site related to the former filling station (fuel dispensing islands and USTs). The surficial layer consisted of approximately 6-inches of asphalt overlying 6-inches of concrete. According to the property owner, this portion of the site had a heating system installed in the 1940's for snow removal. The concrete layer was encountered at all soil boring locations, with the exception of SB-5.

Soil across this portion of the site was described as a dense, brown silty-clay that was observed from approximately 1 to 13 fbgs. Groundwater was generally encountered at approximately 11 fbgs. No visual evidence of impacts were noted, however olfactory observations and elevated PID readings suggested potential soil impacts. PID readings ranged from 0 parts per million (ppm) to 1,111 ppm. Elevated PID readings were typically encountered at depths greater than 6 fbgs, with the highest readings being encountered

between approximately 8 to 12 fbg (see Table 1). Soil samples were collected from each soil boring location for analysis.

An additional soil boring (SB-7) was advanced to investigate potential impacts associated with the 8,000 gallon fuel oil UST in the garage area along E. Balcom Street (eastern portion of the site). The concrete slab was approximately 8" thick, with 4" of sub-base fill material. Soils were described as dense brown silty-clay from approximately 1 to 11 fbg. A silty fine sand was encountered at approximately 11 to 12 fbg. Elevated PID readings were encountered from approximately 4 to 12 fbg (see Table 1).

### **SAMPLING AND ANALYSIS**

Seven representative soil samples were collected for analysis. Specifically, samples were collected and placed in pre-cleaned, laboratory provided sample bottles using dedicated stainless steel sampling tools, and cooled to 4°C in the field. The samples were transported under chain-of-custody command to TestAmerica of Amherst, New York for analysis of NYSDEC Spill Technology and Remediation Series (STARS) List volatile organic compounds (VOCs). Additionally, SB-7 was analyzed for STARS List semi-volatile compounds (SVOCs).

Analytical results are summarized on Table 2, attached. The data package is presented in Attachment 1. For comparison, Table 2 includes Recommended Soil Cleanup Objectives (RSCOs) per NYSDEC Technical Assistance and Guidance Memorandum (TAGM) HWR-94-4046. As indicated on Table 2, the data indicates exceedances of RSCOs for total xylenes in SB-1, SB-2, and SB-3; and for MTBE in SB-2. The presence of MTBE appears to be an anomaly as the Site has not been utilized as a filling station since the 1940s and use of MTBE did not start until the 1970s.

One additional composite soil sample was collected from the impacted soil borings for waste characterization purposes. The results of this sample confirm that if impacted soil is removed, it can be handled, transported and disposed of as a non-hazardous waste.

### **SUMMARY AND CONCLUSIONS**

- Analytical results and field evidence of contamination in the soil/fill suggest historic releases from previous gas station filling operations. The areas of the Site that will require remediation include the southwest portion of the parking lot that encompasses SB-1, SB-2 and SB-3, and the area of the fuel oil UST beneath the garage on the northeast portion of the Site.
- Based on the analytical results, the NYSDEC was notified and NYSDEC Spill No. 0802415 was assigned to the Site. Ms. Francine Gallego of the NYSDEC Spills Department has been assigned as the NYSDEC representative.

- The historic tanks should be removed in accordance with NYSDEC regulations. During the planned UST removals, impacted soils should be excavated and transported off-Site to a permitted solid waste landfill.
- We recommend providing this report to the NYSDEC for their review. Prior to the UST removals, we recommend apprising the NYSDEC of the planned work.

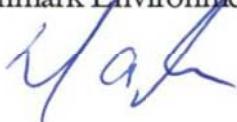
#### LIMITATIONS

Benchmark personnel monitored all activities during investigation at the Site according to generally accepted practices. Based on the field observations made by Benchmark personnel, as well as field and laboratory test data, the investigation performed at the Site complied with the scope of work provided to Maier Management Corporation by Benchmark.

This report has been prepared for the exclusive use of Maier Management Corporation. The contents of this report are limited to information available at the time of the site investigation activities and to data referenced herein, and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of Maier Management Corporation. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering & Science, PLLC.

Thank you for allowing Benchmark to provide environmental consulting services to Schop & Pleskow, LLP and Maier Management Corporation. Please contact us if you have any questions or require additional information.

Sincerely,  
Benchmark Environmental Engineering & Science, PLLC



Michael Lesakowski  
Project Manager

Att.

C: File 0164-001-100

## TABLES



TABLE 1  
SOIL BORING PID READINGS  
1655 Main Street Site  
Buffalo, New York

Depth (ft bgs)	SOIL BORING LOCATIONS					
	SB-1 (ppm)	SB-2 (ppm)	SB-3 (ppm)	SB-4 (ppm)	SB-5 (ppm)	SB-6 (ppm)
(0 - 2)	0.0	0.1	0.1	0.1	0.0	0.0
(2 - 4)	0.2	0.7	30.2	5.6	0.0	0.0
(4 - 6)	22.6	32.8	582.0	10.8	1.2	21.2
(6 - 8)	967.0	679.0	1011.0	62.1	19.2	201
(8 - 10)	25.2	2.6	252.0	1111	42.6	368
(10-12)			118.0	452	NA	NA
(12-14)	2.1	2.6	NA	1.3	NA	NA
(14-15)	NA	NA	NA	NA	NA	NA

Note:

1. Highest recorded PID readings within a given depth range shown

NA - Not Applicable

**19.5** PID readings above 5 ppm

TABLE 2

SUMMARY OF SOIL ANALYTICAL RESULTS

1655 Main Street  
Buffalo, New York

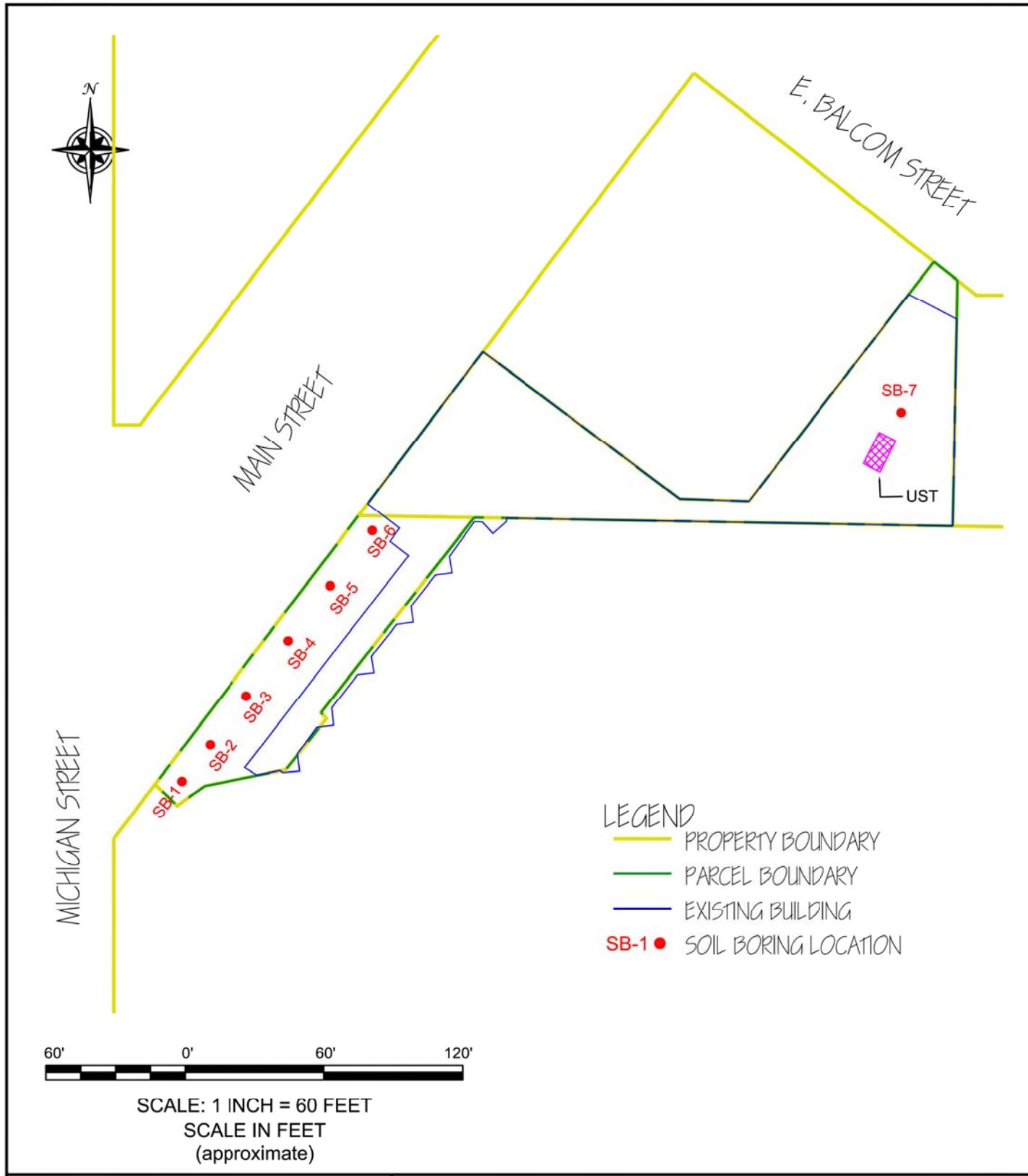
Parameter	Sample Location					Recommended Soil Cleanup Objectives
	SB-1 (7-10)	SB-2 (8-10)	SB-3 (7-12)	SB-4 (10-12)	SB-5 (10-12)	
<b>NYSDEC STARS List Volatile Organic Compounds (VOCs) -ug/kg</b>						
Benzene	ND	ND	ND	ND	0.48 J	0.18 J
Ethylbenzene	ND	ND	770	19	10	ND
Toluene	420	940	1500	24	1.1	19
Total Xylene	1400	2000	6600	130	9.4	190
Isopropylbenzene	2100	1800	250	38	11	70
n-Propylbenzene	1500	950	1200	ND	ND	130
p-Cymene	640	670	910	15	28	130
1,2,4-Trimethylbenzene	1200	4800	5700	320	15	220
1,3,5-Trimethylbenzene	230	1700	2400	110	5.1	90
n-Butylbenzene	660 B	2100	6300	220	33 B	230 B
sec-Butylbenzene	1000	700	940	26	22	290
tert-Butylbenzene	ND	ND	ND	ND	6	120
Methyl-Tert-Butyl-Ether (MTBE)	ND	190	ND	ND	ND	ND
<b>NYSDEC STARS List Semi Volatile Organic Compounds (SVOCs) -mg/kg</b>						
Acenaphthylene	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	NA	NA	NA	NA	NA	NA
Benz(b)fluoranthene	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA

Notes:

1. The recommended soil cleanup objectives are taken from NYSDEC TAGM #4046
2. Shaded yellow values indicate an exceedance of the regulatory limit.
3. ND= not detected above laboratory detection limits.
4. J = Indicates an estimated value that is below the reporting limit.
5. B = Found in associated blank, as well as in the sample .
6. NA = Not analyzed for

## **FIGURES**

**FIGURE 1**



 <b>BENCHMARK</b> ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC	726 EXCHANGE STREET SUITE 624 BUFFALO, NEW YORK 14210 (716) 656-0599
PROJECT NO.: 0164-001-100	
DATE: JUNE 2008	
DRAFTED BY: NTM	

**SITE PLAN**  
PHASE II SITE INVESTIGATION  
1655 MAIN STREET SITE  
NYSDEC SPILL NO. 0802415  
BUFFALO, NEW YORK  
PREPARED FOR  
MAIER MANAGEMENT CORPORATION

---

---

## ATTACHMENT 1

---

### Laboratory Analytical Results



## ANALYTICAL REPORT

Job#: A08-5425

Project#: NY4A9217  
Site Name: Benchmark  
Task: 1655 Main St.

Mr. Nate Munley  
Benchmark Environmental  
726 Exchange St. Ste 624  
Buffalo, NY 14210

TestAmerica Laboratories Inc.

A handwritten signature in black ink, appearing to read "Brian Fischer".

Brian Fischer  
Project Manager

05/30/2008



## TestAmerica Buffalo Current Certifications

As of 6/15/2007

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	<b>SDWA, CWA, RCRA, SOIL</b>	<b>88-0686</b>
<b>California*</b>	<b>NELAP CWA, RCRA</b>	<b>01169CA</b>
<b>Connecticut</b>	<b>SDWA, CWA, RCRA, SOIL</b>	<b>PH-0568</b>
<b>Florida*</b>	<b>NELAP CWA, RCRA</b>	<b>E87672</b>
<b>Georgia*</b>	<b>SDWA, NELAP CWA, RCRA</b>	<b>956</b>
<b>Illinois*</b>	<b>NELAP SDWA, CWA, RCRA</b>	<b>200003</b>
<b>Iowa</b>	<b>SW/CS</b>	<b>374</b>
<b>Kansas*</b>	<b>NELAP SDWA, CWA, RCRA</b>	<b>E-10187</b>
<b>Kentucky</b>	<b>SDWA</b>	<b>90029</b>
<b>Kentucky UST</b>	<b>UST</b>	<b>30</b>
<b>Louisiana*</b>	<b>NELAP CWA, RCRA</b>	<b>2031</b>
<b>Maine</b>	<b>SDWA, CWA</b>	<b>NY0044</b>
<b>Maryland</b>	<b>SDWA</b>	<b>294</b>
<b>Massachusetts</b>	<b>SDWA, CWA</b>	<b>M-NY044</b>
<b>Michigan</b>	<b>SDWA</b>	<b>9937</b>
<b>Minnesota</b>	<b>SDWA, CWA, RCRA</b>	<b>036-999-337</b>
<b>New Hampshire*</b>	<b>NELAP SDWA, CWA</b>	<b>233701</b>
<b>New Jersey*</b>	<b>NELAP, SDWA, CWA, RCRA,</b>	<b>NY455</b>
<b>New York*</b>	<b>NELAP, AIR, SDWA, CWA, RCRA, CLP</b>	<b>10026</b>
<b>Oklahoma</b>	<b>CWA, RCRA</b>	<b>9421</b>
<b>Pennsylvania*</b>	<b>Registration, NELAP CWA, RCRA</b>	<b>68-00281</b>
<b>Tennessee</b>	<b>SDWA</b>	<b>02970</b>
<b>USDA</b>	<b>FOREIGN SOIL PERMIT</b>	<b>S-41579</b>
<b>USDOE</b>	<b>Department of Energy</b>	<b>DOECAP-STB</b>
<b>Virginia</b>	<b>SDWA</b>	<b>278</b>
<b>Washington</b>	<b>CWA, RCRA</b>	<b>C1677</b>
<b>West Virginia</b>	<b>CWA, RCRA</b>	<b>252</b>
<b>Wisconsin</b>	<b>CWA, RCRA</b>	<b>998310390</b>

\*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A8542501	SB-1	SOIL	05/13/2008	09:20	05/14/2008	12:30
A8542502	SB-2	SOIL	05/13/2008	09:00	05/14/2008	12:30
A8542503	SB-3	SOIL	05/13/2008	09:50	05/14/2008	12:30
A8542504	SB-4	SOIL	05/13/2008	13:00	05/14/2008	12:30
A8542505	SB-5	SOIL	05/13/2008	13:45	05/14/2008	12:30
A8542506	SB-6	SOIL	05/13/2008	14:40	05/14/2008	12:30
A8542507	SB-7	SOIL	05/13/2008	16:30	05/14/2008	12:30

## METHODS SUMMARY

Job#: A08-5425Project#: NY4A9217  
Site Name: Benchmark

PARAMETER	ANALYTICAL METHOD
METHOD 8021 - VOLATILE ORGANICS (STARS)	SW8463 8021
SOIL SW8463 8270 - STARS LIST	SW8463 8270

References:

- SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

## SDG NARRATIVE

Job#: A08-5425Project#: NY4A9217  
Site Name: BenchmarkGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-5425

Sample Cooler(s) were received at the following temperature(s); 3.0 °C  
All samples were received in good condition.

GC Volatile Data

For method 8021, the Matrix Spike Blank recovery for MTBE (55%) was slightly below the laboratory limit of 61-130% for the medium level soil extraction batch. The results for this compound for samples SB-1, SB-2, SB-3, SB-4, and SB-7 is to be considered biased slightly low.

For Method 8021, the surrogate recovery in many samples is outside of established quality control limits due to sample matrix interferences. The recovery of all other surrogates in the laboratory QC within this batch are within quality control limits; no corrective action is required.

For method 8021, the recoveries and the relative percent difference for sample SB-7 Matrix Spike and the Matrix Spike duplicate are outside quality control limits for several compounds, though the Matrix Spike Blank recoveries are compliant, no action necessary.

GC/MS Semivolatile Data

The analytes 3-Methylphenol and 4-Methylphenol coelute and can not be analytically separated. The reported concentrations for these analytes are a total number, rather than individual quantitated values.

Metals Data

The analyte Lead was detected in the TCLP Extractor Blank (A8B1534901) at a level above the project established reporting limit. However, the sample had a level of Lead greater than ten times that of the TCLP Extractor Blank value, therefore, no corrective action was necessary.

Wet Chemistry Data

The U.S. EPA has determined the applicability of the Reactive Cyanide and Sulfide tests to be limited in part due to the poor recoveries obtainable with their procedures. The April 1998 memorandum entitled 'Withdrawal of Cyanide and Sulfide Reactivity Guidance' details the justification for this determination. Therefore, in conjunction with these test results, the U.S. EPA recommends the data user apply process or waste knowledge to determine if their waste exhibits the characteristic of reactivity.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
SB-2	A8542502	8021	5.00	008
SB-3	A8542503	8021	2.00	008
SB-7	A8542507	8021	5.00	008
SB-7	A8542507MS	8021	5.00	008
SB-7	A8542507SD	8021	5.00	008

---

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other



## **DATA QUALIFIER PAGE**

***These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.***

### **ORGANIC DATA QUALIFIERS**

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### **INORGANIC DATA QUALIFIERS**

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 05/30/2008  
Time: 16:02:58

Benchmark  
1655 Main St.

METHOD 8021 - VOLATILE ORGANICS (STARS)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	SB-1 A08-5425 05/13/2008	A8542501	SB-2 A08-5425 05/13/2008	A8542502	SB-3 A08-5425 05/13/2008	A8542503	SB-4 A08-5425 05/13/2008	A8542504
Analyte	Units	Sample Value	Reporting Limit						
Benzene	UG/KG	ND	12	ND	58	ND	23	ND	12
Ethylbenzene	UG/KG	ND	12	ND	58	770	23	19	12
Toluene	UG/KG	420	12	940	58	1500	23	24	12
o-Xylene	UG/KG	1400	12	1200	58	2100	23	56	12
m-Xylene	UG/KG	ND	12	800	1	4600	1	75	1
p-Xylene	UG/KG	ND	12	ND	1	ND	1	ND	1
Total Xylenes	UG/KG	1400	36	2000	58	6600	69	130	35
Isopropylbenzene	UG/KG	2100	12	1800	58	250	23	38	12
n-Propylbenzene	UG/KG	1500	12	950	58	1200	23	ND	12
p-Cymene	UG/KG	640	12	670	58	910	23	15	12
1,2,4-Trimethylbenzene	UG/KG	1200	12	4800	58	5700	23	320	12
1,3,5-Trimethylbenzene	UG/KG	230	12	1700	58	2400	23	110	12
n-Butylbenzene	UG/KG	660	B	2100	58	6300	23	220	12
sec-Butylbenzene	UG/KG	1000	12	700	58	940	23	26	12
tert-Butylbenzene	UG/KG	ND	12	ND	58	ND	23	ND	12
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	12	190	58	ND	23	ND	12
<u>SURROGATE(S)</u>									
p-Bromofluorobenzene	%	120	22 *	66-138	54 *	66-138	93	66-138	66-141
a,a,a-Trifluorotoluene	%	133	45 *	66-141	153 *	66-141	87	66-141	66-141

NA = Not Applicable

ND = Not Detected

TestAmerica Lab

Date: 05/30/2008  
Time: 16:02:58

Benchmark  
1655 Main St.  
METHOD 8021 - VOLATILE ORGANICS (STARS)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	SB-5 A08-5425 05/13/2008	A8542505	SB-6 A08-5425 05/13/2008	A8542506	SB-7 A08-5425 05/13/2008	A8542507
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/KG	0.48 J	1.1	0.18 J	1.2	ND	57
Ethylbenzene	UG/KG	10	1.1	ND	1.2	ND	NA
Toluene	UG/KG	1.1	1.1	19	1.2	130	NA
o-Xylene	UG/KG	5.1	1.1	150	1.2	860	NA
m-Xylene	UG/KG	4.4	1.1	38	1.2	200	1
p-Xylene	UG/KG	ND	1.1	ND	1.2	ND	NA
Total Xylenes	UG/KG	9.4	3.4	190	3.5	1000	170
Isopropylbenzene	UG/KG	11	1.1	70	1.2	810	57
n-Propylbenzene	UG/KG	ND	1.1	130	1.2	1600	57
p-Cymene	UG/KG	28	1.1	130	1.2	1400	57
1,2,4-Trimethylbenzene	UG/KG	15	1.1	220	1.2	3600	57
1,3,5-Trimethylbenzene	UG/KG	5.1	1.1	90	1.2	940	57
n-Butylbenzene	UG/KG	33 B	1.1	230 B	1.2	5800	57
sec-Butylbenzene	UG/KG	22	1.1	290	1.2	850	57
tert-Butylbenzene	UG/KG	6.0	1.1	120	1.2	ND	57
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	1.1	ND	1.2	ND	NA
SURROGATE(S)	%	108	66-138	147 *	66-138	25 *	66-138
p-Bromofluorobenzene	%	95	66-141	100	66-141	22 *	66-141
a,a,a-Trifluorotoluene	%						

NA = Not Applicable      ND = Not Detected

TestAmerica Lab

Date: 05/30/2008  
Time: 16:03:03

Benchmark  
1655 Main St.  
SOIL SW8463 8270 - STARS LIST

Rept: AN0326

Client ID Job No Sample Date	Lab ID	SB-7 A08-5425 05/13/2008	A8542507	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte	Units								
Acenaphthylene	MG/KG	0.14 J	0.19	NA	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	0.41	0.19	NA	NA	NA	NA	NA	NA
Anthracene	MG/KG	0.24	0.19	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	MG/KG	0.022 J	0.19	NA	NA	NA	NA	NA	NA
Benz(b)fluoranthene	MG/KG	0.011 J	0.19	NA	NA	NA	NA	NA	NA
Benz(k)fluoranthene	MG/KG	ND	0.19	NA	NA	NA	NA	NA	NA
Benz(ghi)perylene	MG/KG	ND	0.19	NA	NA	NA	NA	NA	NA
Benz(a)pyrene	MG/KG	ND	0.19	NA	NA	NA	NA	NA	NA
Chrysene	MG/KG	0.025 J	0.19	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	ND	0.19	NA	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	0.060 J	0.19	NA	NA	NA	NA	NA	NA
Fluorene	MG/KG	0.60	0.19	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	ND	0.19	NA	NA	NA	NA	NA	NA
Naphthalene	MG/KG	1.1	0.19	NA	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	2.2	0.19	NA	NA	NA	NA	NA	NA
Pyrene	MG/KG	0.090 J	0.19	NA	NA	NA	NA	NA	NA
<hr/> <u>IS/SURROGATE(S)</u>									
1,4-Dichlorobenzene-d4	%	107	50-200	NA	NA	NA	NA	NA	NA
Naphthalene-d8	%	104	50-200	NA	NA	NA	NA	NA	NA
Acenaphthene-d10	%	97	50-200	NA	NA	NA	NA	NA	NA
Phenanthrene-d10	%	84	50-200	NA	NA	NA	NA	NA	NA
Chrysene-d12	%	88	50-200	NA	NA	NA	NA	NA	NA
Perylene-d12	%	96	50-200	NA	NA	NA	NA	NA	NA
Nitrobenzene-d5	%	86	35-120	NA	NA	NA	NA	NA	NA
2-Fluorobiphenyl	%	85	43-120	NA	NA	NA	NA	NA	NA
p-Terphenyl-d14	%	86	51-125	NA	NA	NA	NA	NA	NA
Phenol-d5	%	74	36-120	NA	NA	NA	NA	NA	NA
2-Fluorophenol	%	68	30-120	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	%	106	46-129	NA	NA	NA	NA	NA	NA

NA = Not Applicable      ND = Not Detected

TestAmerica Lab

# Chronology and QC Summary Package

Date: 05/30/2008  
Time: 16:03:15Benchmark  
1655 Main St.  
METHOD 8021 - VOLATILE ORGANICS (STARS)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Method Blank(vBLK_) A08-5425			Method Blank(vBLK_) A08-5425		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/KG	ND	1.0	ND	10	NA	NA
Ethy lbenzene	UG/KG	ND	1.0	ND	10	NA	NA
Toluene	UG/KG	ND	1.0	ND	10	NA	NA
o-Xylene	UG/KG	ND	1.0	ND	10	NA	NA
m-Xylene	UG/KG	ND	1.0	ND	10	NA	NA
p-Xy lene	UG/KG	ND	1.0	ND	10	NA	NA
Total Xylenes	UG/KG	ND	3.0	ND	30	NA	NA
Isopropylbenzene	UG/KG	ND	1.0	ND	10	NA	NA
n-Propylbenzene	UG/KG	ND	1.0	ND	10	NA	NA
p-Cymene	UG/KG	ND	1.0	ND	10	NA	NA
1,2,4-Trimethylbenzene	UG/KG	ND	1.0	ND	10	NA	NA
1,3,5-Trimethylbenzene	UG/KG	ND	0.25 J	ND	1.0	NA	NA
n-Butylbenzene	UG/KG	ND	1.0	ND	10	NA	NA
sec-Butylbenzene	UG/KG	ND	1.0	ND	10	NA	NA
tert-Butylbenzene	UG/KG	ND	1.0	ND	10	NA	NA
Methyl-t-Butyl Ether (MTBE)	UG/KG	0.87 J	1.0	ND	10	NA	NA
SURROGATE(S)	%	102 100	66-138 66-141	100 92	66-138 66-141	NA	NA
p-Bromofluorobenzene	%					NA	NA
a,a,a-Trifluorotoluene	%					NA	NA

NA = Not Applicable      ND = Not Detected

TestAmerica Lab

Date: 05/30/2008  
Time: 16:03:15

Benchmark  
1655 Main St.  
METHOD 8021 - VOLATILE ORGANICS (STARS)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-5425 A8B1554401		Matrix Spike Blank A08-5425 A8B1609602		SB-7 A08-5425 05/13/2008		SB-7 A08-5425 05/13/2008	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	ug/kg	100	1.0	180	10	200	57	190	57
Ethylbenzene	ug/kg	100	1.0	190	10	380	57	370	57
Toluene	ug/kg	99	1.0	190	10	360	57	340	57
o-Xylene	ug/kg	100	1.0	190	10	1300	57	1200	57
m-Xylene	ug/kg	200	1	390	1	680	1	640	1
p-Xylene	ug/kg	ND	1	ND	1	ND	1	ND	1
Total Xylenes	ug/kg	300	3.0	590	30	1900	170	1900	170
Isopropylbenzene	ug/kg	110	1.0	210	10	1100	57	1100	57
n-Propylbenzene	ug/kg	99	1.0	190	10	2300	57	2600	57
p-Cymene	ug/kg	100	1.0	190	10	660	57	1500	57
1,2,4-Trimethylbenzene	ug/kg	97	1.0	190	10	4400	57	4700	57
1,3,5-Trimethylbenzene	ug/kg	98	1.0	190	10	1800	57	1800	57
n-Butylbenzene	ug/kg	98	B	180	10	8200	57	8200	57
sec-Butylbenzene	ug/kg	98	1.0	190	10	830	57	1100	57
tert-Butylbenzene	ug/kg	99	1.0	190	10	ND	57	ND	57
Methyl-t-Butyl Ether (MTBE)	ug/kg	89	B	110	10	200	57	170	57
SURROGATE(S)	%	102	66-138 66-141	101	66-138 66-141	22 *	66-138 66-141	24 *	66-138 66-141
p-Bromofluorobenzene	%	101		90		16 *		15 *	
a,a,a-Trifluorotoluene	%								

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Client ID Job No Sample Date	Lab ID	Method Blank(SBLK_ ) A08-5425 A8B1536102						Reporting Limit	Sample Value	Reporting Limit
		Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit			
Acenaphthylene	MG/KG	ND		0.16	NA			NA	NA	NA
Acenaphthene	MG/KG	ND		0.16	NA			NA	NA	NA
Anthracene	MG/KG	ND		0.16	NA			NA	NA	NA
Benz(a)anthracene	MG/KG	ND		0.16	NA			NA	NA	NA
Benz(b)fluoranthene	MG/KG	ND		0.16	NA			NA	NA	NA
Benz(k)fluoranthene	MG/KG	ND		0.16	NA			NA	NA	NA
Benz(ghi)perylene	MG/KG	ND		0.16	NA			NA	NA	NA
Benz(a)pyrene	MG/KG	ND		0.16	NA			NA	NA	NA
Chrysene	MG/KG	ND		0.16	NA			NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	ND		0.16	NA			NA	NA	NA
Fluoranthene	MG/KG	ND		0.16	NA			NA	NA	NA
Fluorene	MG/KG	ND		0.16	NA			NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	ND		0.16	NA			NA	NA	NA
Naphthalene	MG/KG	ND		0.16	NA			NA	NA	NA
Phenanthrene	MG/KG	ND		0.16	NA			NA	NA	NA
Pyrene	MG/KG	ND		0.16	NA			NA	NA	NA
<u>IS/SURROGATE(S)</u>										
1,4-Dichlorobenzene-d4	%	112		50-200	NA			NA	NA	NA
Naphthalene-d8	%	108		50-200	NA			NA	NA	NA
Acenaphthene-d10	%	93		50-200	NA			NA	NA	NA
Phenanthrene-d10	%	91		50-200	NA			NA	NA	NA
Chrysene-d12	%	97		50-200	NA			NA	NA	NA
Perylene-d12	%	100		50-200	NA			NA	NA	NA
Nitrobenzene-d5	%	60		35-120	NA			NA	NA	NA
2-Fluorobiphenyl	%	71		43-120	NA			NA	NA	NA
p-Terphenyl-d14	%	81		51-125	NA			NA	NA	NA
Phenol-d5	%	57		36-120	NA			NA	NA	NA
2-Fluorophenol	%	51		30-120	NA			NA	NA	NA
2,4,6-Tribromophenol	%	92		46-129	NA			NA	NA	NA

Date: 05/30/2008  
Time: 16:03:21

Benchmark  
1655 Main St.  
SOIL SW8463 8270 - STARS LIST

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-5425 A8B1536101		
Analyte	Units	Sample Value	Reporting Limit	Sample Value
Acenaphthylene	MG/KG	ND	0.17	NA
Acenaphthene	MG/KG	3.0	0.17	NA
Anthracene	MG/KG	ND	0.17	NA
Benz(a)anthracene	MG/KG	ND	0.17	NA
Benz(b)fluoranthene	MG/KG	ND	0.17	NA
Benz(k)fluoranthene	MG/KG	ND	0.17	NA
Benz(ghi)perylene	MG/KG	ND	0.17	NA
Benz(a)pyrene	MG/KG	ND	0.17	NA
Chrysene	MG/KG	ND	0.17	NA
Dibenz(a,h)anthracene	MG/KG	ND	0.17	NA
Fluoranthene	MG/KG	ND	0.17	NA
Fluorene	MG/KG	ND	0.17	NA
Indeno(1,2,3-cd)pyrene	MG/KG	ND	0.17	NA
Naphthalene	MG/KG	ND	0.17	NA
Phenanthrene	MG/KG	ND	0.17	NA
Pyrene	MG/KG	3.0	0.17	NA
<u>IS/SURROGATE(S)</u>				
1,4-Dichlorobenzene-d4	%	112	50-200	NA
Naphthalene-d8	%	109	50-200	NA
Acenaphthene-d10	%	95	50-200	NA
Phenanthrene-d10	%	90	50-200	NA
Chrysene-d12	%	95	50-200	NA
Perylene-d12	%	97	50-200	NA
Nitrobenzene-d5	%	68	35-120	NA
2-Fluorobiphenyl	%	78	43-120	NA
p-Terphenyl-d14	%	86	51-125	NA
Phenol-d5	%	62	36-120	NA
2-Fluorophenol	%	54	30-120	NA
2,4,6-Tribromophenol	%	101	46-129	NA

NA = Not Applicable      ND = Not Detected

TestAmerica Lab

Date : 05/30/2008 16:03:34

SAMPLE DATE 05/13/2008

Rept: AN0364

Client Sample ID: SB-7  
Lab Sample ID: A8542507SB-7  
A8542507MSSB-7  
A8542507SD

Analyte	Units of Measure	Sample	Concentration		MS	Spike Amount	MSD	% Recovery		% RPD	QC LIMITS RPD	REC.
			Matrix Spike	Spike Duplicate				MS	MSD			
<b>METHOD 8021 - VOLATILE ORGANICS (STARS)</b>												
Benzene	UG/KG	0	195	189	1146	1146	1146	17 *	16 *	17	6	35.0
n-Butylbenzene	UG/KG	5822	8234	8229	1146	1146	1146	210 *	210 *	210	0	35.0
sec-Butylbenzene	UG/KG	846	829	1142	1146	1146	1146	-1 *	26 *	13	216 *	35.0
tert-Butylbenzene	UG/KG	0	0	0	1146	1146	1146	0 *	0 *	0	0	35.0
Ethylbenzene	UG/KG	0	381	374	1146	1146	1146	33 *	33 *	33	0	35.0
Isopropylbenzene	UG/KG	814	1146	1063	1146	1146	1146	29 *	22 *	26	27	35.0
p-Cymene	UG/KG	1381	664	1545	1146	1146	1146	-62 *	14 *	-24	317 *	35.0
n-Propylbenzene	UG/KG	1612	2279	2641	1146	1146	1146	58 *	90	74	43 *	30.0
Toluene	UG/KG	127	362	343	1146	1146	1146	20 *	19 *	20	5	30.0
1,2,4-Trimethylbenzene	UG/KG	3582	4449	4711	1146	1146	1146	76	98	87	25	30.0
1,3,5-Trimethylbenzene	UG/KG	938	1782	1798	1146	1146	1146	74 *	75	75	1	30.0
Total Xylenes	UG/KG	1056	1945	1941	3438	3438	3438	26 *	26	26	0	30.0
Methyl-t-Butyl Ether (MTBE)	UG/KG	0	204	166	1146	1146	1146	18 *	14 *	16	25	30.0

17/28

Date : 05/30/2008 16:03:34

Rept: AN0364

Client Sample ID: Method Blank(vBLK\_)  
 Lab Sample ID: A8B1554402

Analyte	Units of Measure	Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
					Matrix Spike Blank A8B1554401
<b>METHOD 8021 - VOLATILE ORGANICS (STARS)</b>					
Benzene	UG/KG	100	100	101	75-125
n-Butylbenzene	UG/KG	98.1	100	98	70-125
sec-Butylbenzene	UG/KG	97.7	100	98	75-125
tert-Butylbenzene	UG/KG	99.2	100	99	75-125
Ethylbenzene	UG/KG	101	100	102	75-125
Isopropylbenzene	UG/KG	108	100	108	75-125
p-Cymene	UG/KG	101	100	101	75-125
n-Propylbenzene	UG/KG	99.1	100	99	75-127
Toluene	UG/KG	99.3	100	99	60-140
1,2,4-Trimethylbenzene	UG/KG	97.0	100	97	75-125
1,3,5-Trimethylbenzene	UG/KG	98.4	100	98	75-125
o-Xylene	UG/KG	99.7	100	100	75-125
m-Xylene	UG/KG	203	200	102	75-125
Total Xylenes	UG/KG	303	300	101	75-125
Methyl-t-Butyl Ether (MTBE)	UG/KG	88.6	100	88	61-130

\* Indicates Result is outside QC Limits  
 NC = Not Calculated ND = Not Detected

Date : 05/30/2008 16:03:34

Rept: AN0364

Client Sample ID: Method Blank(vBLK\_)  
Lab Sample ID: A8B1609601

Analyte	Units of Measure	Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
					Matrix Spike Blank A8B1609602
<b>METHOD 8021 - VOLATILE ORGANICS (STARS)</b>					
Benzene	UG/KG	185	200	93	75-125
n-Butylbenzene	UG/KG	178	200	89	70-125
sec-Butylbenzene	UG/KG	187	200	94	75-125
tert-Butylbenzene	UG/KG	188	200	94	75-125
Ethylbenzene	UG/KG	194	200	97	75-125
Isopropylbenzene	UG/KG	206	200	103	75-125
p-Cymene	UG/KG	191	200	96	75-125
n-Propylbenzene	UG/KG	187	200	94	75-127
Toluene	UG/KG	191	200	96	60-140
1,2,4-Trimethylbenzene	UG/KG	188	200	94	75-125
1,3,5-Trimethylbenzene	UG/KG	192	200	96	75-125
Total Xylenes	UG/KG	588	600	98	75-125
Methyl-t-Butyl Ether (MTBE)	UG/KG	109	200	55 *	61-130

\* Indicates Result is outside QC Limits  
 NC = Not Calculated ND = Not Detected

Date : 05/30/2008 16:03:37

Rept: AN0364

Client Sample ID: Method Blank(SBLK\_)  
 Lab Sample ID: A8B1536102

		Matrix Spike Blank	
Analyte	Units of Measure	Concentration Blank Spike	% Recovery Blank Spike
SOIL SW8463 8270 - STARS LIST			
Aceraphthene	MG/KG	2.95	3.29
Pyrene	MG/KG	2.99	3.29

\* Indicates Result is outside QC Limits  
 NC = Not Calculated ND = Not Detected

Date: 05/30/2008  
Time: 16:03:52

BENCHMARK ENVIRONMENTAL & ENGINEERING SCIENCE  
SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 1

METHOD 8021 - VOLATILE ORGANICS (STARS)

Client Sample ID	Sample ID	SB-1	SB-2	SB-3	SB-4	SB-5
Job No & Lab Sample ID	A08-5425 A8542501	A08-5425 A8542502	A08-5425 A8542503	A08-5425 A8542504	A08-5425 A8542505	
Sample Date	05/13/2008 09:20	05/13/2008 09:00	05/13/2008 09:50	05/13/2008 13:00	05/13/2008 13:45	
Received Date	05/14/2008 12:30	05/14/2008 12:30	05/14/2008 12:30	05/14/2008 12:30	05/14/2008 12:30	
Extraction Date						
Analysis Date	05/22/2008 16:24	05/22/2008 16:57	05/22/2008 17:29	05/22/2008 18:02	05/17/2008 01:31	
Extraction HT Met?	-	-	-	-	-	
Analytical HT Met?	YES	YES	YES	YES	YES	
Sample Matrix	SOIL MED					
Dilution Factor	1.0	5.0	2.0	1.0	1.0	
Sample wt/vol	5.0 GRAMS	5.0 GRAMS	5.0 GRAMS	5.0 GRAMS	1.0 GRAMS	
% Dry	83.67	86.70	86.52	85.36	87.33	

Date: 05/30/2008  
Time: 16:03:52

BENCHMARK ENVIRONMENTAL & ENGINEERING SCIENCE  
SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 2

METHOD 8021 - VOLATILE ORGANICS (STARS)

Client Sample ID	Sample ID	SB-6	SB-7
Job No & Lab Sample ID	A08-5425	A8542506	A08-5425 A8542507
Sample Date	05/13/2008	14:40	05/13/2008 16:30
Received Date	05/14/2008	12:30	05/14/2008 12:30
Extraction Date			
Analysis Date	05/17/2008	02:10	05/22/2008 18:35
Extraction HT Met?	-		-
Analytical HT Met?	YES		YES
Sample Matrix	SOIL	LOW	SOIL
Dilution Factor	1.0	1.0	MED
Sample wt/vol	GRAMS	5.0	GRAMS
% Dry	85.76	87.25	

Date: 05/30/2008  
Time: 16:03:52

BENCHMARK ENVIRONMENTAL & ENGINEERING SCIENCE  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 3

## METHOD 8021 - VOLATILE ORGANICS (STARS)

Client Sample ID		Matrix Spike Blank		Matrix Spike Blank		SB-7	
Job No & Lab Sample ID	A08-5425 A8B1554401	A08-5425 A8B1609602	A08-5425 A8B1609602	A08-5425 A8542507MS	A08-5425 A8542507SD	SB-7 A08-5425 A8542507SD	
Sample Date				05/13/2008 16:30	05/13/2008 16:30		
Received Date				05/14/2008 12:30	05/14/2008 12:30		
Extraction Date						05/13/2008 16:30	
Analysis Date	05/16/2008 18:55	05/22/2008 14:45		05/22/2008 19:08	05/14/2008 12:30	05/14/2008 12:30	
Extraction HT Met?	-	-		-	-	05/13/2008 16:30	
Analytical HT Met?	-	-		YES	-	05/13/2008 16:30	
Sample Matrix	SOIL LOW	SOIL MED	SOIL MED	YES	YES	05/13/2008 16:30	
Dilution Factor	1.0	1.0	5.0	SOIL	SOIL	05/13/2008 16:30	
Sample wt/vol	GRAMS	GRAMS	GRAMS	MED	MED	05/13/2008 16:30	
% Dry	100.00	100.00	100.00	5.0	5.0	05/13/2008 16:30	
				GRAMS	GRAMS	05/13/2008 16:30	
				87.25	87.25	05/13/2008 16:30	

Date: 05/30/2008  
Time: 16:03:52

BENCHMARK ENVIRONMENTAL & ENGINEERING SCIENCE  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 4

METHOD 8021 - VOLATILE ORGANICS (STARS)

Client Sample ID	Method Blank(VBLK ) A08-5425 A8B1554402	Method Blank(VBLK ) A08-5425 A8B1609601
Sample Date		
Received Date	05/16/2008 18:16	05/22/2008 14:12
Extraction Date	-	-
Analysis Date	-	-
Extraction HT Met?	-	-
Analytical HT Met?	-	-
Sample Matrix	SOIL	SOIL
Dilution Factor	1.0	1.0
Sample wt/vol	1.0	5.0
% Dry	100.00	100.00
	GRAMS	GRAMS

Date: 05/30/2008  
Time: 16:03:55

BENCHMARK ENVIRONMENTAL & ENGINEERING SCIENCE  
SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 1

SOIL SW8463 8270 - STARS LIST

Client Job No & Lab	Sample ID	SB-7	A08-5425	A8542507
Sample Date		05/13/2008	16:30	
Received Date		05/14/2008	12:30	
Extraction Date		05/16/2008	08:00	
Analysis Date		05/17/2008	15:22	
Extraction HT Met?		YES		
Analytical HT Met?		YES		
Sample Matrix		SOIL	LOW	
Dilution Factor		1.0		
Sample wt/vol		30.83	GRAMS	
% Dry		87.32		

NA = Not Applicable

Date: 05/30/2008  
Time: 16:03:55

BENCHMARK ENVIRONMENTAL & ENGINEERING SCIENCE  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 2

SOIL SW8463 8270 - STARS LIST

Client Sample ID	Matrix Spike Blank
Job No & Lab Sample ID	A08-5425 A8B1536101
Sample Date	
Received Date	05/16/2008 08:00
Extraction Date	05/17/2008 15:45
Analysis Date	-
Extraction HT Met?	-
Analytical HT Met?	-
Sample Matrix	S01L LOW
Dilution Factor	1.0
Sample wt/vol	30.33 GRAMS
% Dry	100.00

NA = Not Applicable

Date: 05/30/2008  
Time: 16:03:55

BENCHMARK ENVIRONMENTAL & ENGINEERING SCIENCE  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 3

SOIL SW8463 8270 - STARS LIST

Client Sample ID	Method Blank(SBLLK ) A08-5425 A8B1536102
Received Date	05/16/2008 08:00
Extraction Date	05/17/2008 16:08
Analysis Date	-
Extraction HT Met?	-
Analytical HT Met?	-
Sample Matrix	SOIL
Dilution Factor	1.0
Sample wt/vol	30.86
% Dry	100.00

27/28

# Chain of Custody Record

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0907)

Client Name Address	Project Manager Telephone Number (Area Code)/Fax Number	Date Lab Number	Chain of Custody Number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Bennettsburg 126 Buffalo St	J. L. Johnson 856-957-1010	13 May 08 1	390438 1 of 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Project Name and Location (State) Contract/Purchase Order/Quote No.	Site Contact Carrier/Waybill Number	Lab Contact Carrier/Waybill Number	Analysis (Attach list if more space is needed)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Buffalo NY 1655 Main St.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
<table border="1"> <thead> <tr> <th colspan="2">Sample I.D. No. and Description (Containers for each sample may be combined on one line)</th> <th>Date</th> <th>Time</th> <th>Matrix</th> <th>Containers &amp; Preservatives</th> </tr> </thead> <tbody> <tr> <td>SB-1</td> <td>13 May</td> <td>9:20</td> <td></td> <td>X</td> <td>Uptacs</td> </tr> <tr> <td>SB-2</td> <td></td> <td>9:00</td> <td></td> <td>X</td> <td>Seal.</td> </tr> <tr> <td>SB-3</td> <td></td> <td>9:50</td> <td></td> <td>X</td> <td>Soil</td> </tr> <tr> <td>SB-4</td> <td></td> <td>13:00</td> <td></td> <td>X</td> <td>NaOH</td> </tr> <tr> <td>SB-5</td> <td></td> <td>13:45</td> <td></td> <td>X</td> <td>ZnAc</td> </tr> <tr> <td>SB-6</td> <td></td> <td>14:40</td> <td></td> <td>X</td> <td>NaO3</td> </tr> <tr> <td>SB-7</td> <td></td> <td>16:30</td> <td></td> <td>X</td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H2SO4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Uptacs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Seal.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Soil</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaOH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZnAc</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NaO3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HCl</td> </tr> <tr> <td></td> &lt;td</tr></tbody></table>				Sample I.D. No. and Description (Containers for each sample may be combined on one line)		Date	Time	Matrix	Containers & Preservatives	SB-1	13 May	9:20		X	Uptacs	SB-2		9:00		X	Seal.	SB-3		9:50		X	Soil	SB-4		13:00		X	NaOH	SB-5		13:45		X	ZnAc	SB-6		14:40		X	NaO3	SB-7		16:30		X	HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl						H2SO4						Uptacs						Seal.						Soil						NaOH						ZnAc						NaO3						HCl	
Sample I.D. No. and Description (Containers for each sample may be combined on one line)		Date	Time	Matrix	Containers & Preservatives																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
SB-1	13 May	9:20		X	Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
SB-2		9:00		X	Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
SB-3		9:50		X	Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
SB-4		13:00		X	NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
SB-5		13:45		X	ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
SB-6		14:40		X	NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
SB-7		16:30		X	HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Uptacs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Seal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Soil																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaOH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					NaO3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					HCl																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

# Remedial Action Report

*1655 Main Street  
Buffalo, New York*

January 2010

0164-001-100

Prepared For:

*Maier Management*

Prepared By:



---

# **REMEDIAL ACTION REPORT**

**1655 MAIN STREET SITE  
BUFFALO, NEW YORK**

---

January 2010

0164-001-100

Prepared for:

**Maier Management**