0971900037 / Lake
Waukegan Abandoned Town G.P.
S.F. Tech Reports

Randolph & Associates, Inc.
8901 NORTH INDUSTRIAL ROAD PEORIA ILLINOIS 61615-1589
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EPA Region 5 Records Ctr.
247768

September 30, 1988

Ms. Sue Doubet
Division of Land Pollution Control
Illinois EPA
2200 Churchill Road
Springfield, IL 62706

Dear Sue:

The results with data package for one soil/waste (tar) sample from Waukegan Abandoned Town Gas Plant, Site Inventory #0971900037, are enclosed. The sample was to be analyzed for total metals, volatile and semi-volatile organics, and flashpoint. The flashpoint results were requested within 24 hours with the remainder due in 30 calendar days.

If you have any questions, please give me a call.

Sincerely,

RANDOLPH & ASSOCIATES, INC.

Melvin D. Rozeboom

Melvin D. Rozeboom, Ph.D.
IEPA Project Manager

MDR/jmt

Enclosure

RECEIVED
OCT 4 1988
IEPA-DLPC

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

RANDOLPH & ASSOCIATES, INC.
8901 N. INDUSTRIAL RD.
PEORIA, ILLINOIS 61615

Lab Name: _____ IEPA Sample No.: [illegible]

Matrix (soil/water): [illegible] Lab Sample ID: [illegible]

Level (low/Med): _____ Date Received: [illegible]

Solids: 57.6

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No. | Analyte | Concentration | C | M | Q |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 26.4 | | P | N |
| 7440-36-0 | Antimony | 17.2 | U | P | |
| 7440-38-2 | Arsenic | 3.4 | U | F | |
| 7440-39-3 | Barium | 3.4 | U | P | |
| 7440-41-7 | Beryllium | 1.7 | U | P | |
| 7440-43-9 | Cadmium | 1.7 | U | P | |
| 7440-70-2 | Calcium | 1360 | B | P | |
| 7440-47-3 | Chromium | 3.4 | U | P | |
| 7440-48-4 | Cobalt | 3.4 | U | P | |
| 7440-50-8 | Copper | 19.9 | | P | * E |
| 7439-89-6 | Iron | 537 | | P | * |
| 7439-92-1 | Lead | 5.5 | | F | * |
| 7439-95-4 | Magnesium | 17.2 | U | P | |
| 7439-96-5 | Manganese | 3.6 | | P | |
| 7439-97-6 | Mercury | 0.090 | | CV | * |
| 7440-02-0 | Nickel | 6.9 | U | P | |
| 7440-09-7 | Potassium | 172 | U | P | |
| 7782-49-2 | Selenium | 1.7 | U | F | N |
| 7440-22-4 | Silver | 5.2 | | P | N |
| 7440-23-5 | Sodium | 324 | B | P | |
| 7440-28-0 | Thallium | 3.4 | U | F | N |
| 7440-62-2 | Vanadium | 3.4 | U | P | |
| 7440-66-6 | Zinc | 53.7 | | P | * E |
| | | | | | |

RECEIVED
OCT 4 1988
IEPA-DLPC

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

RANDOLPH & ASSOCIATES, INC.
8901 N. INDUSTRIAL RD.
PEORIA, ILLINOIS 61615

Lab Name: _____ IEPA Sample No.: X 101

Matrix (soil/water): tar Lab Sample ID: 880901-01

Level (low/Med): _____ Date Received: 9-1-88

% Solids: 87.6

Concentration Units (ug/L or mg/kg dry weight): °C

| CAS No. | Analyte | Concentration | C | M | Q |
|---|---|---|---|---|---|
| | Cyanide | | | | |
| | Flashpoint | 60 | | | |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

X101

Lab Name: Randolph & Assoc., Inc. Contract: WAUKEGAN

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 880901-01

Sample wt/vol: 1 (g/mL) g Lab File ID: V0854

Level: (low/med) MED Date Received: 09/01/88

% Moisture: not dec.---- Date Analyzed: 9/15/88

Column: (pack/cap) CAP Dilution Factor: 0.005

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10000. | U |
| 74-83-9 | Bromomethane | 10000. | U |
| 75-01-4 | Vinyl Chloride | 10000. | U |
| 75-00-3 | Chloroethane | 10000. | U |
| 75-09-2 | Methylene Chloride | 5000. | U |
| 67-64-1 | Acetone | 21000. | B |
| 75-15-0 | Carbon Disulfide | 5000. | U |
| 75-35-4 | 1,1-Dichloroethene | 5000. | U |
| 75-34-3 | 1,1-Dichloroethane | 5000. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5000. | U |
| 67-66-3 | Chloroform | 5000. | U |
| 107-02-2 | 1,2-Dichloroethane | 5000. | U |
| 78-93-3 | 2-Butanone | 82000. | B |
| 71-55-6 | 1,1,1-Trichloroethane | 5000. | U |
| 56-23-5 | Carbon Tetrachloride | 5000. | U |
| 108-05-4 | Vinyl Acetate | 10000. | U |
| 75-27-4 | Bromodichloromethane | 5000. | U |
| 78-87-5 | 1,2-Dichloropropane | 5000. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5000. | U |
| 79-01-6 | Trichloroethene | 5000. | U |
| 124-48-1 | Dibromochloromethane | 5000. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5000. | U |
| 71-43-2 | Benzene | 170000. | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5000. | U |
| 75-25-2 | Bromoform | 5000. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10000. | U |
| 591-78-6 | 2-Hexanone | 10000. | U |
| 127-18-4 | Tetrachloroethene | 5000. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5000. | U |
| 108-88-3 | Toluene | 270000. | E |
| 108-90-7 | Chlorobenzene | 5000. | U |
| 100-41-4 | Ethylbenzene | 160000. | |
| 100-42-5 | Styrene | 240000. | E |
| 133-02-7 | Xylene (total) | 250000. | E |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

Lab Name: Randolph & Assoc., Inc. Contract: WAUKEGAN

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 880901-01

Sample wt/vol: 1 (g/mL) g Lab File ID: >V0903

Level: (low/med) MED Date Received: 09/01/88

% Moisture: not dec.---- Date Analyzed: 9/25/88

Column: (pack/cap) CAP Dilution Factor: 0.00250

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 20000. | U |
| 74-83-9 | Bromomethane | 20000. | U |
| 75-01-4 | Vinyl Chloride | 20000. | U |
| 75-00-3 | Chloroethane | 20000. | U |
| 75-09-2 | Methylene Chloride | 10000. | U |
| 67-64-1 | Acetone | 30000. | BD |
| 75-15-0 | Carbon Disulfide | 10000. | U |
| 75-35-4 | 1,1-Dichloroethene | 10000. | U |
| 75-34-3 | 1,1-Dichloroethane | 10000. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10000. | U |
| 67-66-3 | Chloroform | 10000. | U |
| 107-02-2 | 1,2-Dichloroethane | 10000. | U |
| 78-93-3 | 2-Butanone | 100000. | BD |
| 71-55-6 | 1,1,1-Trichloroethane | 10000. | U |
| 56-23-5 | Carbon Tetrachloride | 10000. | U |
| 108-05-4 | Vinyl Acetate | 20000. | U |
| 75-27-4 | Bromodichloromethane | 10000. | U |
| 78-87-5 | 1,2-Dichloropropane | 10000. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10000. | U |
| 79-01-6 | Trichloroethene | 10000. | U |
| 124-48-1 | Dibromochloromethane | 10000. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10000. | U |
| 71-43-2 | Benzene | 540000. | ED |
| 10061-02-6 | trans-1,3-Dichloropropene | 10000. | U |
| 75-25-2 | Bromoform | 10000. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 20000. | U |
| 591-78-6 | 2-Hexanone | 20000. | U |
| 127-18-4 | Tetrachloroethene | 10000. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10000. | U |
| 108-88-3 | Toluene | 820000. | ED |
| 108-90-7 | Chlorobenzene | 10000. | U |
| 100-41-4 | Ethylbenzene | 490000. | ED |
| 100-42-5 | Styrene | 650000. | ED |
| 133-02-7 | Xylene (total) | 950000. | ED |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101DL

Lab Name: Randolph & Assoc., Inc. Contract: WAUKEGAN

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 880901-01

Sample wt/vol: 1 (g/mL) g Lab File ID: >V0903

Level: (low/med) MED Date Received: 09/01/88

% Moisture: not dec.---- Date Analyzed: 9/25/88

Column: CAP Dilution Factor: 0.0025

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 95636 | Benzene, 1,2,4-trimethyl- (8 | 20.68 | 60000. | J |
| 2. | 611154 | Benzene, 1-ethenyl-2-methyl- | 20.87 | 100000. | J |
| 3. | 611154 | Benzene, 1-ethenyl-2-methyl- | 20.97 | 36000. | J |
| 4. | 673325 | Benzene, 1-propynyl- (9CI) | 22.56 | 220000. | J |
| 5. | 65051834 | Benzene, (1-methyl-2-cyclopr | 25.55 | 110000. | J |
| 6. | 65051834 | Benzene, (1-methyl-2-cyclopr | 25.78 | 96000. | J |
| 7. | 91203 | Naphthalene (ACN)(DOT)(8CI9C | 26.80 | 370000. | J |
| 8. | 91203 | Naphthalene (ACN)(DOT)(8CI9C | 26.96 | 100000. | J |
| 9. | 95158 | Benzo[b]thiophene (8CI9CI) | 27.10 | 40000. | J |
| 10. | 90120 | Naphthalene, 1-methyl- (8CI9 | 29.69 | 240000 | J |
| 11. | | | | | |
| 12. | | | | | |
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1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X101DL

Lab Name: Randolph & Assoc., Inc. Contract: WAUKEGAN

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 880901-01

Sample wt/vol: 1 (g/mL) g Lab File ID: >V0932

Level: (low/med) MED Date Received: 09/01/88

% Moisture: not dec.---- Date Analyzed: 9/28/88

Column: (pack/cap) CAP Dilution Factor: 0.001

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 50000. | U |
| 74-83-9 | Bromomethane | 50000. | U |
| 75-01-4 | Vinyl Chloride | 50000. | U |
| 75-00-3 | Chloroethane | 50000. | U |
| 75-09-2 | Methylene Chloride | 25000. | U |
| 67-64-1 | Acetone | 51000. | BD |
| 75-15-0 | Carbon Disulfide | 25000. | U |
| 75-35-4 | 1,1-Dichloroethene | 25000. | U |
| 75-34-3 | 1,1-Dichloroethane | 25000. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 25000. | U |
| 67-66-3 | Chloroform | 25000. | U |
| 107-02-2 | 1,2-Dichloroethane | 25000. | U |
| 78-93-3 | 2-Butanone | 160000. | BD |
| 71-55-6 | 1,1,1-Trichloroethane | 25000. | U |
| 56-23-5 | Carbon Tetrachloride | 25000. | U |
| 108-05-4 | Vinyl Acetate | 50000. | U |
| 75-27-4 | Bromodichloromethane | 25000. | U |
| 78-87-5 | 1,2-Dichloropropane | 25000. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 25000. | U |
| 79-01-6 | Trichloroethene | 25000. | U |
| 124-48-1 | Dibromochloromethane | 25000. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 25000. | U |
| 71-43-2 | Benzene | 640000. | D |
| 10061-02-6 | trans-1,3-Dichloropropene | 25000. | U |
| 75-25-2 | Bromoform | 25000. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 50000. | U |
| 591-78-6 | 2-Hexanone | 50000. | U |
| 127-18-4 | Tetrachloroethene | 25000. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 25000. | U |
| 108-88-3 | Toluene | 1000000. | D |
| 108-90-7 | Chlorobenzene | 25000. | U |
| 100-41-4 | Ethylbenzene | 560000. | D |
| 100-42-5 | Styrene | 830000. | D |
| 133-02-7 | Xylene (total) | 1100000. | D |

X101

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

.b Name: Randolph and Assoc. Inc

:trix: (soil/water) SOil

:mple wt/vol: 31.60 (g/mL) g

:vel: (low/med) low

Moisture: not dec. _____ dec. _____

:traction: (SepF/Cont/Sonc) Sonc

-C Cleanup: (Y/N) N pH: _____

Contract: Waukegan

Lab Sample ID: 880901-01

Lab File ID: YB0603

Date Received: 09/01/88

Date Extracted: 09/07/88

Date Analyzed: 09/29/88

Dilution Factor: 0.0002

CONCENTRATION UNITS: (ug/L or ug/Kg) ~~mg/kg~~ ug/kg

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2---- | Phenol | 1600 | U |
| 111-44-4---- | bis(2-Chloroethyl)ether | 1600 | U |
| 95-57-8----- | 2-Chlorophenol | 1600 | U |
| 541-73-1---- | 1,3-Dichlorobenzene | 1600 | U |
| 106-46-7---- | 1,4-Dichlorobenzene | 1600 | U |
| 100-51-6---- | Benzyl alcohol | 1600 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 1600 | U |
| 95-48-7----- | 2-Methylphenol | 1600 | U |
| 108-60-1---- | bis(2-Chloroisopropyl)ether | 1600 | U |
| 106-44-5---- | 4-Methylphenol | 1600 | U |
| 621-64-7---- | N-Nitroso-di-n-propylamine | 1600 | U |
| 67-72-1----- | Hexachloroethane | 1600 | U |
| 98-95-3----- | Nitrobenzene | 1600 | U |
| 78-59-1----- | Isophorone | 1600 | U |
| 88-75-5----- | 2-Nitrophenol | 1600 | U |
| 105-67-9---- | 2,4-Dimethylphenol | 1600 | U |
| 65-85-0----- | Benzoic acid | 8000 | U |
| 111-91-1---- | bis(2-Chloroethoxy)methane | 1600 | U |
| 120-83-2---- | 2,4-Dichlorophenol | 1600 | U |
| 120-82-1---- | 1,2,4-Trichlorobenzene | 1600 | U |
| 91-20-3----- | Naphthalene | 18,000 | |
| 106-47-8---- | 4-Chloroaniline | 1600 | U |
| 87-68-3----- | Hexachlorobutadiene | 1600 | U |
| 59-50-7----- | 4-Chloro-3-methylphenol | 1600 | U |
| 91-57-6----- | 2-Methylnaphthalene | 10,000 | |
| 77-47-4----- | Hexachlorocyclopentadiene | 1600 | U |
| 88-06-2----- | 2,4,6-Trichlorophenol | 1600 | U |
| 95-95-4----- | 2,4,5-Trichlorophenol | 8000 | U |
| 91-58-7----- | 2-Chloronaphthalene | 1600 | U |
| 88-74-4----- | 2-Nitroaniline | 1600 | U |
| 131-11-3---- | Dimethylphthalate | 1600 | U |
| 208-96-8---- | Acenaphthylene | 5500 | |
| 606-20-2---- | 2,6-Dinitrotoluene | 1600 | U |

X:01

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Randolph and Assoc. Inc.
Matrix: (soil/water) Soil
Sample wt/vol: 31.60 (g/mL) g
Level: (low/med)
Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) Sonc
GPC Cleanup: (Y/N) N pH: _____

Contract: Waukegan
Lab Sample ID: 880901-01
Lab File ID: >B0603
Date Received: 09/01/88
Date Extracted: 09/07/88
Date Analyzed: 09/29/88
Dilution Factor: 0.0002

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) mg/Kg | Q |
|---|---|---|---|
| 99-09-2----- | 3-Nitroaniline | 8000 | U |
| 83-32-9----- | Acenaphthene | 1600 | U |
| 51-28-5----- | 2,4-Dinitrophenol | 8000 | U |
| 100-02-7---- | 4-Nitrophenol | 8000 | U |
| 132-64-9---- | Dibenzofuran | 1600 | U |
| 121-14-2---- | 2,4-Dinitrotoluene | 1600 | U |
| 84-66-2----- | Diethylphthalate | 1600 | U |
| 7005-72-3--- | 4-Chlorophenyl-phenylether | 1600 | U |
| 86-73-7----- | Fluorene | 2800 | |
| 100-01-6---- | 4-Nitroaniline | 8000 | U |
| 534-52-1---- | 4,6-Dinitro-2-methylphenol | 8000 | U |
| 86-30-6----- | N-Nitrosodiphenylamine (1) | 1600 | U |
| 101-55-3---- | 4-Bromophenyl-phenylether | 1600 | U |
| 118-74-1---- | Hexachlorobenzene | 1600 | U |
| 87-86-5----- | Pentachlorophenol | 8000 | U |
| 85-01-8----- | Phenanthrene | 15,000 | |
| 120-12-7---- | Anthracene | 2,700 | |
| 84-74-2----- | Di-n-butylphthalate | 1600 | U |
| 206-44-0---- | Fluoranthene | 2,700 | |
| 129-00-0---- | Pyrene | 5,600 | |
| 85-68-7----- | Butylbenzylphthalate | 1600 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 3300 | U |
| 56-55-3----- | Benzo(a)anthracene | 2,100 | |
| 218-01-9---- | Chrysene | 2,300 | |
| 117-81-7---- | bis(2-Ethylhexyl)phthalate | 1600 | U |
| 117-84-0---- | Di-n-octylphthalate | 1600 | U |
| 205-99-2---- | Benzo(b)fluoranthene | 1800 | |
| 207-08-9---- | Benzo(k)fluoranthene | 1100 | J |
| 50-32-8----- | Benzo(a)pyrene | 2300 | |
| 193-39-5---- | Indeno(1,2,3-cd)pyrene | 1600 | U |
| 53-70-3----- | Dibenz(a,h)anthracene | 1600 | U |
| 191-24-2---- | Benzo(g,h,i)perylene | 1100 | J |

(1) - Cannot be separated from Diphenylamine

X101

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Rudolph and Assoc, Inc
Matrix: (soil/water) Soil
Sample wt/vol: 31.60 (g/mL) g
Level: (low/med) Low
Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) Sonc
GPC Cleanup: (Y/N) N pH: _____

Contract: Waukegan
Lab Sample ID: 888901-01
Lab File ID: YBD603
Date Received: 09/01/88
Date Extracted: 09/07/88
Date Analyzed: 09/20/88
Dilution Factor: 0.0002

Number TICs found _____

CONCENTRATION UNITS: (ug/L or ug/Kg) ~~ug/L~~ ug/g

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | unknown | 12.77 | 1600 | J |
| 2. 766972 | Benzene, 1-ethynyl-4-methyl | 13.83 | 4600 | J |
| 3. 767599 | 1H-Indene, 1-methyl- | 15.78 | 1600 | J |
| 4. 65051834 | Benzene (1-methyl-2-cyclopropen-1-yl-) | 15.89 | 1600 | J |
| 5. 90120 | 1-methyl naphthalene | 18.57 | 7600 | J |
| 6. | unknown | 19.51 | 1400 | J |
| 7. 569415 | Naphthalene, 1,8-dimethyl | 19.95 | 1700 | J |
| 8. 573988 | Naphthalene, 1,2-dimethyl | 20.18 | 3000 | J |
| 9. 575371 | Naphthalene, 1,7-dimethyl | 20.23 | 1300 | J |
| 10. 827543 | Naphthalene, 2-ethenyl | 20.31 | 1600 | J |
| 11. 573988 | Naphthalene, 1,2-dimethyl | 20.48 | 1300 | J |
| 12. | unknown | 23.11 | 2100 | J |
| 13. 1730376 | 9H-Fluorene | 24.01 | 1900 | J |
| 14. 132650 | Dibenzothiophene | 24.78 | 1600 | J |
| 15. | unknown | 26.73 | 4400 | J |
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8/29/88 AWU

T

X101 8/30/88 12:20 p.m.

Sample Appearance black viscous liquid
resembles tar
Brian H. Martin FEPA/DLPC

Flash Point pm

Brian H. Martin Brian H. Martin
8/30/88 1205 p.m. 3771 O

Brian H. Martin ~~8/30/88~~ Brian H. Martin
8/30/88 13:05 3772

Courier Sample Delivery: _____

[illegible] received the sample shipping container from the courier along with the shipping container and seal intact and [illegible] shipping container was intact. After recording in the [illegible] of the official record book, the seal will be [illegible] in all times [illegible] of a seal [illegible]

Opened by (print): Alan R. Hogan Signature: Alan R. Hogan

Date 9-1-88 Time: 9:40 am Seal #: 3772 Intact?: (Y) N

Lab Name: Randolph + Assoc. Comments: 880901-01