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SYRACUSE® CHINA CORPORATION
P.O. BOX 4820, SYRACUSE, N.Y. 13221-4820
(315) 455-5671 • FAX (315) 455-6763

13 December, 1991

Mr. Charles J. Branagh, P.E.
Senior Sanitary Engineer
Division of Environmental Enforcement
New York State Department of
Environmental Conservation
615 Erie Boulevard West
Syracuse, New York 13204-2400

Dear Mr. Branagh:

Enclosed is a copy of the report on the third round of groundwater and surface water sampling that Syracuse China has conducted this year in the vicinity of its on-site landfill.

As noted in our letter dated 6 August, 1991, under cover of which we submitted the report on the second round of sampling, we intend to conduct one more round of sampling before the end of the year.

If you have any questions, please contact me at 455-5671.

Very truly yours,

SYRACUSE CHINA CORPORATION

By: Philip E. Harvard

Philip E. Harvard
Environmental Manager

Enclosure

cc: Richard J. Brickwedde, Esq.
(without enclosure)

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FRIEND LABORATORY I • N • C

Quarterly Monitoring Well Report

446 BROAD STREET • WAVERLY, N.Y. 14892-1445

(607) 565-2893

FAX # (607) 565-4083

NEW YORK LAB # 10252

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Telephone (607) 565-2893 FAX # (607) 565-4083

REPORT

ROUTINE ANALYSIS

OF MONITORING WELLS

AT

SYRACUSE CHINA
SYRACUSE, NEW YORK

SEPTEMBER 1991

Submitted To:
Philip E. Harvard
Syracuse China Corp.
P.O. Box 4820
Syracuse, New York 13221

Stanley C. Criss
Project Manager

Gregory W. Burrows, M.S.
Laboratory Director

Lindsey K. Brown
Quality Assurance Manager

Date: September 1991

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CASE NARRATIVE

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CASE NARRATIVE

INTRODUCTION

The purpose of this report is to present the results of analyses of groundwater and surface water samples taken on September 9, 1991, at the Syracuse China Corporation Landfill in Syracuse, New York.

SAMPLING

Samples of groundwater were taken by taken by personnel from FLI Environmental Services. Pre-cleaned sample containers were prepared and packed in a plastic cooler by FLI Environmental Services. Each cooler contained sufficient bottles for the sampling of two monitoring sites. Frozen ice-packs were supplied in separate coolers. The samples were transported to the laboratory by the FLI Field Services Department at the end of the sampling day. A chain-of-custody accompanied each group of samples and is presented in Section 5 of this report.

NOTE: Surface water site SW-2 was dry at the time of the September 9, 1991 sampling event.

ANALYSES

The individual well reports for the results of the analyses are given in Section 6 of this report. The reports for wet chemistry, metals, TOC, TOX, and organics are grouped together in the same order for the well. Each report contains the following information:

- date sampled
- date sample was received at the laboratory
- laboratory identification number
- sample description (customer identification)
- site location
- analysis performed
- parameter concentration and/or method detection limit
- concentration units
- date analyzed
- method of analysis
- analyst
- notebook reference

QA/QC PROCEDURE

The following QA/QC procedures were followed to insure the reliability of the data:

- A chain-of-custody was prepared for each day of sampling
- Instrument or method blanks were prepared for each analysis, and are noted in the Quality Control Section

- QC analyses were performed on 10% of all analyses
- Matrix spike and matrix spike duplicates were performed on 10% of all samples

Summary spreadsheets are given in Section 2. Detection limits for each analysis are listed at the bottom of each column for comparison purposes.

SUMMARY OF MONITORING RESULTS

An Executive Summary listing analytical parameters with results greater than the New York State Department of Environmental Conservation regulatory limits is given in Section 3 of this report. The following is a listing and discussion of those results which exceeded either regulatory or guidance values:

NOTE: Surface water and leachates, not being groundwater, do not strictly adhere to the DEC regulatory limits, but are listed in this report for comparison purposes only.

- SW-1 contained lead at a concentration of 0.46 mg/L. This value is in excess of the NYS DEC regulatory limit for groundwater. Very little volume of water was available for sampling at SW-1. It was necessary to dig a hole to obtain sufficient volume to sample; consequently, the turbidity of the sample was extreme. All laboratory quality control data for the analysis was found to be acceptable.

SPREADSHEETS

Syracuse China Corp.

GROUNDWATER MONITORING SUMMARY

09/23/91

Aluminum - Mercury

ID #	ORIGIN	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Gold	Iron	Lead	Vanadium	Magnesium	Manganese
															mg/L			
36973	MW-1														0.007			
36974	MW-1 DISSOLVED														0.006			
36975	MW-2														0.006			
36976	MW-2 DISSOLVED														ND<0.005			
36977	MW-3														0.020			
36978	MW-3 DISSOLVED														0.010			
36979	MW-4														ND<0.005			
36980	MW-4 DISSOLVED														ND<0.005			
36981	MW-5														0.008			
36982	MW-5 DISSOLVED														ND<0.005			
36983	SW-1														0.46			
36984	SW-1 DISSOLVED														0.010			
36986	SW-3														ND<0.005			
36987	SW-3 DISSOLVED														ND<0.005			
36988	SW-4														0.007			
36989	SW-4 DISSOLVED														ND<0.005			
99997	NYS DEC STD.	None	0.003	0.025	1.0	0.003	0.01	None	0.5		1.0		0.3	0.025		35.0	0.3	
99998	DET. LIMITS	ND<0.029	ND<0.019	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.015	ND<0.004	ND<0.006	ND<0.002		ND<0.015	ND<0.005		ND<0.034	ND<0.002	

Syracuse China Corp.

GROUNDWATER MONITORING SUMMARY

09/23/91

ID #	ORIGIN	Mercury	Molybdenum	Nickel	Hexachrome	Potassium	Selenium	Silver	Sodium	Tin	Thallium	Zinc
36973	MW-1											
36974	MW-1 DISSOLVED											
36975	MW-2											
36976	MW-2 DISSOLVED											
36977	MW-3											
36978	MW-3 DISSOLVED											
36979	MW-4											
36980	MW-4 DISSOLVED											
36981	MW-5											
36982	MW-5 DISSOLVED											
36983	SW-1											
36984	SW-1 DISSOLVED											
36986	SW-3											
36987	SW-3 DISSOLVED											
36988	SW-4											
36989	SW-4 DISSOLVED											
99997	NYS DEC STD.	0.002		None	0.05	None	0.02	0.05	None	None	0.004	5.0
99998	DET. LIMITS	ND<0.0002		ND<0.010	ND<0.01	ND<0.051	ND<0.002	ND<0.003	ND<0.154	ND<0.8	ND<0.005	ND<0.003

Syracuse China Corp.

GROUNDWATER MONITORING SUMMARY
for in field analyses

Sample ID#	Origin	Cl Residual (total)	Cl Residual (free)	Conductivity uMHOS	Sampling Depth feet	Depth to Groundwater feet	Dissolved Oxygen	Eh	Flow	pH	Sulfite	Temperature degrees C	Depth recovered t feet
36973	MW-1			943	20.38	20.38				7.33		17.2	20.38
36975	MW-2			2180	6.66	6.66				7.18		22.6	6.66
36977	MW-3			1489	4.67	4.41				7.31		22.1	4.67
36979	MW-4			2450	5.91	5.90				7.20		17.2	5.91
36981	MW-5			1020	5.26	5.23				7.44		20.4	5.26
36983	SW-1			3220	N/A	N/A				6.81		20.2	N/A
36986	SW-3			1371	N/A	N/A				7.15		13.8	N/A
36988	SW-4			519	N/A	N/A				7.18		22.2	N/A
36990	SW-A			2630						7.29		14.0	
36991	SW-B			2730						7.17		14.1	
36992	SW-C			2510						7.12		15.4	
99997	NYS DEC STD.			None			None			6.5 - 8.5	None		50
99998	DET. LIMITS			None			None			None	None		

OVER LIMIT

FLI ENVIRONMENTAL SERVICES

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Telephone (607) 565-2893 FAX # (607) 565-4083

EXECUTIVE SUMMARY

SYRACUSE CHINA

PRIORITY POLLUTANT[1] OVERLIMIT PARAMETERS

Sampling Location	Analyte (mg/L)[1] (0.025 mg/L) Lead
SW-1	0.46

[1] Maximum Contaminant Level according to the New York State Department of Environmental Conservation Surface Water and Groundwater Classifications and Standards, Title 6, Part 703.5

FIELD DATA

Groundwater Sampling Field Log

Sample Site SYRACUSE CHINA Well # MW-1 Seq. # 1

Date 9.10.91 Sampling Time 2:24 Purge Time 11:30 Sample Type: Grab X Composite ___

Sampled with : Teflon Bailer X Bladder Pump ___ Other .....

Purged with: Teflon Bailer X Bladder Pump ___ Other .....

pH Meter Calibration Check Actual 7.0 Buffer value 7.0

Conductivity Meter Calibration Check Actual 1413 Standard value 1413

Eh Meter Calibration Check Actual N/A Standard value N/A

WATER TABLE: Well depth from top of standpipe 24.40'

Depth from top of standpipe to water table 20.38' Duplicate .....

Length of water column (LWC) 4.02'

VOLUME OF WATER IN WELL: 2" diameter well = 0.163 x (LWC) = 0.65 gallons

4" diameter well = 0.653 X (LWC) = ... gallons

6" diameter well = 1.469 X (LWC) = ... gallons

PHYSICAL APPEARANCE BEFORE PURGING: Color CL Odor NO Turbidity SLIGHT

Is an Oil film or layer apparent? YES___ NO X IF YES: Top ___ Bottom ___

PREPARATION OF WELL FOR SAMPLING: Pumping Rate = 4 GPM (gal. per minute)

Amount of water removed before sampling (purge volume) 3.0 gallons

Did well go dry? YES___ NO X Proper disposal of purge water? YES X NO___

PHYSICAL APPEARANCE DURING SAMPLING:

Color CLEAR Odor NO Turbidity SLIGHT

Was an oil film or layer apparent? YES___ NO X If yes, TOP ___ BOTTOM ___

Conductivity: Start ..... Finish 943 uMHOS/cm pH (S)..... (F) 7.33

Temperature: Start ..... Finish 17.2 © or F Eh (S)..... (F) N/A mV

Sampling Depth: 20.38' Depth Recovered To At Sampling 20.38

DECONTAMINATION OF EQUIPMENT:

Detergent X .1n-HCL X Hexane ___ Methanol ___ D.I. Water X

Notes: 2 GALS = 3 VOLS

Technicians JE. SC Weather 75° CLOUDY

Groundwater Sampling Field Log

Sample Site SYRACUSE CHINA Well # MW-3 Seq. # 9

Date 9/10/91 Sampling Time 3:15 Purge Time 1:55 Sample Type: Grab X Composite ___

Sampled with : Teflon Bailer X Bladder Pump ___ Other .....

Purged with: Teflon Bailer X Bladder Pump ___ Other .....

pH Meter Calibration Check Actual 7.0 Buffer value 7.0

Conductivity Meter Calibration Check Actual 1413 Standard value 1413

Eh Meter Calibration Check Actual N/A Standard value N/A

WATER TABLE: Well depth from top of standpipe 12.00'

Depth from top of standpipe to water table 4.41' Duplicate .....

Length of water column (LWC) 7.59'

VOLUME OF WATER IN WELL: 2" diameter well = 0.163 x (LWC) = 1.23 gallons

4" diameter well = 0.653 X (LWC) = ... gallons

6" diameter well = 1.469 X (LWC) = ... gallons

PHYSICAL APPEARANCE BEFORE PURGING: Color CL Odor NO Turbidity SLIGHT

Is an Oil film or layer apparent? YES___ NO X IF YES: Top ___ Bottom ___

PREPARATION OF WELL FOR SAMPLING: Pumping Rate = 1 GPM (gal. per minute)

Amount of water removed before sampling (purge volume) 4.0 gallons

Did well go dry? YES___ NO X Proper disposal of purge water? YES X NO___

PHYSICAL APPEARANCE DURING SAMPLING:

Color CLEAR Odor NO Turbidity SLIGHT

Was an oil film or layer apparent? YES___ NO X If yes, TOP ___ BOTTOM ___

Conductivity: Start ..... Finish 1489 uMHOS/cm pH (S)..... (F) 7.31

Temperature: Start ..... Finish 22.1 (C) or F Eh (S)..... (F) N/A mV

Sampling Depth: 4.67' Depth Recovered To At Sampling 4.67

DECONTAMINATION OF EQUIPMENT:

Detergent X .1n-HCL X Hexane ___ Methanol ___ D.I. Water X

Notes: _____

Technicians JE. SC Weather 75° CLOUDS

Groundwater Sampling Field Log

Sample Site SYRACUSE CHINA Well # ~~.....~~ MW-4 Seq. # 4

Date 9.10 Sampling Time 1:18 Purge Time 12:17 12:02 Sample Type: Grab X Composite ___

Sampled with : Teflon Bailer X Bladder Pump ___ Other .....

Purged with: Teflon Bailer X Bladder Pump ___ Other .....

pH Meter Calibration Check Actual 7.0 Buffer value 7.0

Conductivity Meter Calibration Check Actual 1413 Standard value 1413

Eh Meter Calibration Check Actual N/A Standard value N/A

WATER TABLE: Well depth from top of standpipe 13.30'

Depth from top of standpipe to water table 5.90' Duplicate .....

Length of water column (LWC) 7.40'

VOLUME OF WATER IN WELL: 2" diameter well = 0.163 x (LWC) = 1.206 gallons

4" diameter well = 0.653 X (LWC) = ... gallons

6" diameter well = 1.469 X (LWC) = ... gallons

PHYSICAL APPEARANCE BEFORE PURGING: Color BROWN Odor NO Turbidity SLIGHT TO EXTREME (CL TINGE)

Is an Oil film or layer apparent? YES___ NO X IF YES: Top ___ Bottom ___

PREPARATION OF WELL FOR SAMPLING: Pumping Rate = <1 GPM (gal. per minute)

Amount of water removed before sampling (purge volume) 4.0 gallons

Did well go dry? YES___ NO X Proper disposal of purge water? YES X NO___

PHYSICAL APPEARANCE DURING SAMPLING:

Color CLEAR Odor NO Turbidity EXTREME

Was an oil film or layer apparent? YES___ NO___ If yes, TOP ___ BOTTOM ___

Conductivity: Start ..... Finish 2.450 uMHOS/cm pH (S)..... (F) 7.20

Temperature: Start ..... Finish 17.2 (C) or F Eh (S)..... (F) N/A mV

Sampling Depth: 5.91' Depth Recovered To At Sampling 5.91'

DECONTAMINATION OF EQUIPMENT:

Detergent X .1n-HCL X Hexane ___ Methanol ___ D.I. Water X

Notes: _____

_____

_____

Technicians JE. SC Weather 80° SUN

Groundwater Sampling Field Log

Sample Site SYRACUSE CHINA Well # MW-5 Seq. # 2

Date 9/10/91 Sampling Time 2:50 Purge Time 11:40 / 11:55 Sample Type: Grab X Composite ___

Sampled with : Teflon Bailer X Bladder Pump ___ Other .....

Purged with: Teflon Bailer X Bladder Pump ___ Other .....

pH Meter Calibration Check Actual 7.0 Buffer value 7.0

Conductivity Meter Calibration Check Actual 1413 Standard value 1413

Eh Meter Calibration Check Actual N/A Standard value N/A

WATER TABLE: Well depth from top of standpipe 13.35'

Depth from top of standpipe to water table 5.23' Duplicate .....

Length of water column (LWC) 8.12'

VOLUME OF WATER IN WELL: 2" diameter well = 0.163 x (LWC) = 1.323 gallons

4" diameter well = 0.653 X (LWC) = ... gallons

6" diameter well = 1.469 X (LWC) = ... gallons

PHYSICAL APPEARANCE BEFORE PURGING: Color ~~ORANGE~~ CLEAR Odor NO Turbidity SLIGHT

Is an Oil film or layer apparent? YES___ NO___ IF YES: Top ___ Bottom ___

PREPARATION OF WELL FOR SAMPLING: Pumping Rate = ... GPM (gal. per minute)

Amount of water removed before sampling (purge volume) 4.0 gallons

Did well go dry? YES___ NO___ Proper disposal of purge water? YES___ NO___

PHYSICAL APPEARANCE DURING SAMPLING:

Color ~~ORANGE~~ CLEAR (JE) Odor NO Turbidity MODERATE

Was an oil film or layer apparent? YES___ NO___ If yes, TOP ___ BOTTOM ___

Conductivity: Start ..... Finish 1020 uMHOS/cm pH (S)..... (F) 7.44

Temperature: Start ..... Finish 20.4 (C) or F Eh (S)..... (F).....mV

Sampling Depth: 5.26' Depth Recovered To At Sampling 5.26'

DECONTAMINATION OF EQUIPMENT:

Detergent X .1n-HCL X Hexane ___ Methanol ___ D.I. Water X

Notes: _____

Technicians JE. SC Weather 75° SUN

Groundwater Sampling Field Log

Sample Site SYRACUSE CHINA Well # SW-1 Seq. # 10

Date 9.10.91 Sampling Time 2:10 Purge Time N/A Sample Type: Grab X Composite __

Sampled with : Teflon Bailer ___ Bladder Pump ___ Other GRAB

Purged with: Teflon Bailer ___ Bladder Pump ___ Other .....

pH Meter Calibration Check Actual 7.0 Buffer value 7.0

Conductivity Meter Calibration Check Actual 1413 Standard value 1413

Eh Meter Calibration Check Actual N/A Standard value N/A

WATER TABLE: Well depth from top of standpipe N/A

Depth from top of standpipe to water table N/A Duplicate .....

Length of water column (LWC) N/A

VOLUME OF WATER IN WELL: 2" diameter well = 0.163 x (LWC) = ... gallons

4" diameter well = 0.653 X (LWC) = ... gallons

6" diameter well = 1.469 X (LWC) = ... gallons

PHYSICAL APPEARANCE BEFORE PURGING: Color _____ Odor ___ Turbidity _____

Is an Oil film or layer apparent? YES___ NO___ IF YES: Top ___ Bottom ___

PREPARATION OF WELL FOR SAMPLING: Pumping Rate = ... GPM (gal. per minute)

Amount of water removed before sampling (purge volume) ..... gallons

Did well go dry? YES___ NO___ Proper disposal of purge water? YES___ NO___

PHYSICAL APPEARANCE DURING SAMPLING:

Color BLACK Odor YES Turbidity EXTREME

Was an oil film or layer apparent? YES___ NO X If yes, TOP ___ BOTTOM ___

Conductivity: Start ..... Finish 3220 uMHOS/cm pH (S)..... (F) 6.81

Temperature: Start ..... Finish 20.2 (C) or F Eh (S)..... (F).....mV

Sampling Depth: N/A..... Depth Recovered To At Sampling N/A.....

DECONTAMINATION OF EQUIPMENT:

Detergent X .1n-HCL X Hexane ___ Methanol ___ D.I. Water X

Notes: _____

_____

_____

Technicians JE. SC Weather 80° CLOUDS

Groundwater Sampling Field Log

Sample Site SYRACUSE CHINA Well # SW-2 Seq. # .....

Date 7.10.91 Sampling Time 2:20 Purge Time N/A Sample Type: Grab ___ Composite ___

Sampled with : Teflon Bailer ___ Bladder Pump ___ Other .....

Purged with: Teflon Bailer ___ Bladder Pump ___ Other .....

pH Meter Calibration Check Actual ..... Buffer value .....

Conductivity Meter Calibration Check Actual ..... Standard value .....

Eh Meter Calibration Check Actual ..... Standard value .....

WATER TABLE: Well depth from top of standpipe .....

Depth from top of standpipe to water table ..... Duplicate .....

Length of water column (LWC) .....

VOLUME OF WATER IN WELL: 2" diameter well = 0.163 x (LWC) = ... gallons

4" diameter well = 0.653 X (LWC) = ... gallons

6" diameter well = 1.469 X (LWC) = ... gallons

PHYSICAL APPEARANCE BEFORE PURGING: Color _____ Odor ___ Turbidity _____

Is an Oil film or layer apparent? YES___ NO___ IF YES: Top ___ Bottom ___

PREPARATION OF WELL FOR SAMPLING: Pumping Rate = ... GPM (gal. per minute)

Amount of water removed before sampling (purge volume) ..... gallons

Did well go dry? YES___ NO___ Proper disposal of purge water? YES___ NO___

PHYSICAL APPEARANCE DURING SAMPLING:

Color _____ Odor _____ Turbidity _____

Was an oil film or layer apparent? YES___ NO___ If yes, TOP ___ BOTTOM ___

Conductivity: Start ..... Finish ..... uMHOS/cm pH (S)..... (F).....

Temperature: Start ..... Finish ..... C or F Eh (S)..... (F).....mV

Sampling Depth: ..... Depth Recovered To At Sampling .....

DECONTAMINATION OF EQUIPMENT:

Detergent ___ .1n-HCL ___ Hexane ___ Methanol ___ D.I. Water ___

Notes: DRY

Technicians _____ Weather _____

Groundwater Sampling Field Log

Sample Site SYRACUSE CHINA Well # SW-3 Seq. # .5..

Date 9:10:91.. Sampling Time ..12:31 Purge Time ..N/A.. Sample Type: Grab X Composite ___

Sampled with : Teflon Bailer ___ Bladder Pump ___ Other ..GRAB.....

Purged with: Teflon Bailer ___ Bladder Pump ___ Other .....

pH Meter Calibration Check Actual ..7.0.. Buffer value 7.0...

Conductivity Meter Calibration Check Actual .1413. Standard value .1413..

Eh Meter Calibration Check Actual ..N/A. Standard value .N/A..

WATER TABLE: Well depth from top of standpipe ..N/A....

Depth from top of standpipe to water table ..N/A.... Duplicate .....

Length of water column (LWC) ...N/A...

VOLUME OF WATER IN WELL: 2" diameter well = 0.163 x (LWC) = ... gallons

4" diameter well = 0.653 X (LWC) = ... gallons

6" diameter well = 1.469 X (LWC) = ... gallons

PHYSICAL APPEARANCE BEFORE PURGING: Color CL Odor YES Turbidity MOD

Is an Oil film or layer apparent? YES___ NO___ IF YES: Top ___ Bottom ___

PREPARATION OF WELL FOR SAMPLING: Pumping Rate = ... GPM (gal. per minute)

Amount of water removed before sampling (purge volume) ..... gallons

Did well go dry? YES___ NO___ Proper disposal of purge water? YES___ NO___

PHYSICAL APPEARANCE DURING SAMPLING:

Color CL Odor YES Turbidity MOD

Was an oil film or layer apparent? YES___ NO X If yes, TOP ___ BOTTOM ___

Conductivity: Start ..... Finish 1371 uMHOS/cm pH (S)..... (F)7.15...

Temperature: Start ..... Finish 13.8.0 or F Eh (S)..... (F).....mV

Sampling Depth: .....N/A..... Depth Recovered To At Sampling ..N/A.....

DECONTAMINATION OF EQUIPMENT:

Detergent X .1n-HCL X Hexane ___ Methanol ___ D.I. Water X

Notes: _____

_____

_____

Technicians JE·SC Weather 80° CLOUDS

Groundwater Sampling Field Log

Sample Site SYRACUSE CHINA Well # ~~SW-4~~ SW.4 Seq. # 3

Date 9.10.91 Sampling Time 11:45 Purge Time N/A Sample Type: Grab X Composite ___

Sampled with : Teflon Bailer ___ Bladder Pump ___ Other 6.1.AB

Purged with: Teflon Bailer ___ Bladder Pump ___ Other .....

pH Meter Calibration Check Actual 7.0 Buffer value 7.0

Conductivity Meter Calibration Check Actual 1413 Standard value 1413

Eh Meter Calibration Check Actual N/A Standard value N/A

WATER TABLE: Well depth from top of standpipe ~~15.20'~~ N/A

Depth from top of standpipe to water table N/A Duplicate .....

Length of water column (LWC) .....

VOLUME OF WATER IN WELL: 2" diameter well = 0.163 x (LWC) = ... gallons

4" diameter well = 0.653 X (LWC) = ... gallons

6" diameter well = 1.469 X (LWC) = ... gallons

PHYSICAL APPEARANCE BEFORE PURGING: Color _____ Odor ___ Turbidity _____

Is an Oil film or layer apparent? YES___ NO___ IF YES: Top ___ Bottom ___

PREPARATION OF WELL FOR SAMPLING: Pumping Rate = ... GPM (gal. per minute)

Amount of water removed before sampling (purge volume) ..... gallons

Did well go dry? YES___ NO___ Proper disposal of purge water? YES___ NO___

PHYSICAL APPEARANCE DURING SAMPLING:

Color CLEAR Odor SLIGHT Turbidity SLIGHT

Was an oil film or layer apparent? YES___ NO X If yes, TOP ___ BOTTOM ___

Conductivity: Start ..... Finish 519 uMHOS/cm pH (S)..... (F) 7.18

Temperature: Start ..... Finish 22.2 ©or F Eh (S)..... (F) N/A mV

Sampling Depth: N/A Depth Recovered To At Sampling N/A

DECONTAMINATION OF EQUIPMENT:

Detergent X .1n-HCL X Hexane ___ Methanol ___ D.I. Water X

Notes: _____

_____

_____

Technicians JE.SC Weather 80° SUN

Groundwater Sampling Field Log

Sample Site SYRACUSE CHINA Well # SN#A Seq. # 8

Date 9:10-91 Sampling Time 1:08 Purge Time N/A Sample Type: Grab X Composite ___

Sampled with : Teflon Bailer ___ Bladder Pump ___ Other GRAB

Purged with: Teflon Bailer ___ Bladder Pump ___ Other .....

pH Meter Calibration Check Actual 7.0 Buffer value 7.0

Conductivity Meter Calibration Check Actual 1413 Standard value 1413

Eh Meter Calibration Check Actual N/A Standard value N/A

WATER TABLE: Well depth from top of standpipe ...N/A..

Depth from top of standpipe to water table ...N/A... Duplicate .....

Length of water column (LWC) ...N/A...

VOLUME OF WATER IN WELL: 2" diameter well = 0.163 x (LWC) = ... gallons

4" diameter well = 0.653 X (LWC) = ... gallons

6" diameter well = 1.469 X (LWC) = ... gallons

PHYSICAL APPEARANCE BEFORE PURGING: Color _____ Odor ___ Turbidity _____

Is an Oil film or layer apparent? YES___ NO___ IF YES: Top ___ Bottom ___

PREPARATION OF WELL FOR SAMPLING: Pumping Rate = ... GPM (gal. per minute)

Amount of water removed before sampling (purge volume) ..... gallons

Did well go dry? YES___ NO___ Proper disposal of purge water? YES___ NO___

PHYSICAL APPEARANCE DURING SAMPLING:

Color CLEAR Odor YES Turbidity MODERATE

Was an oil film or layer apparent? YES___ NO X If yes, TOP ___ BOTTOM ___

Conductivity: Start ..... Finish 2620 uMHOS/cm pH (S)..... (F)7.29

Temperature: Start ..... Finish 11.0 (C) or F Eh (S)..... (F).....mV

Sampling Depth: .....N/A..... Depth Recovered To At Sampling .....N/A.....

DECONTAMINATION OF EQUIPMENT:

Detergent X .1n-HCL X Hexane ___ Methanol ___ D.I. Water X

Notes: _____

_____

_____

Technicians JF-SC Weather 80° SVN

Groundwater Sampling Field Log

Sample Site SYRACUSE CHINA Well # SW#B Seq. # F

Date 9:10:91 Sampling Time 1104 Purge Time N/A Sample Type: Grab X Composite ___

Sampled with : Teflon Bailer ___ Bladder Pump ___ Other bags

Purged with: Teflon Bailer ___ Bladder Pump ___ Other .....

pH Meter Calibration Check Actual 7.9 Buffer value 7.0

Conductivity Meter Calibration Check Actual 1413 Standard value 1413

Eh Meter Calibration Check Actual N/A Standard value N/A

WATER TABLE: Well depth from top of standpipe N/A

Depth from top of standpipe to water table N/A Duplicate .....

Length of water column (LWC) N/A

VOLUME OF WATER IN WELL: 2" diameter well = 0.163 x (LWC) = ... gallons

4" diameter well = 0.653 X (LWC) = ... gallons

6" diameter well = 1.469 X (LWC) = ... gallons

PHYSICAL APPEARANCE BEFORE PURGING: Color ____ Odor ___ Turbidity ____

Is an Oil film or layer apparent? YES___ NO___ IF YES: Top ___ Bottom ___

PREPARATION OF WELL FOR SAMPLING: Pumping Rate = ... GPM (gal. per minute)

Amount of water removed before sampling (purge volume) ..... gallons

Did well go dry? YES___ NO___ Proper disposal of purge water? YES___ NO___

PHYSICAL APPEARANCE DURING SAMPLING:

Color CLEAR Odor SLIGHT Turbidity MODERATE

Was an oil film or layer apparent? YES___ NO X If yes, TOP ___ BOTTOM ___

Conductivity: Start ..... Finish 2730 uMHOS/cm pH (S)..... (F).7.17..

Temperature: Start ..... Finish 14.1 © or F Eh (S)..... (F).....mV

Sampling Depth: N/A Depth Recovered To At Sampling N/A

DECONTAMINATION OF EQUIPMENT:

Detergent X .1n-HCL X Hexane ___ Methanol ___ D.I. Water X

Notes: _____

_____

_____

Technicians JE-SC Weather 75° CLOUDS

Groundwater Sampling Field Log

Sample Site SYRACUSE CHINA Well # SW#C Seq. # 5

Date 5:10:91 Sampling Time 12:54 Purge Time N/A Sample Type: Grab X Composite ___

Sampled with : Teflon Bailer ___ Bladder Pump ___ Other G.A.B.

Purged with: Teflon Bailer ___ Bladder Pump ___ Other .....

pH Meter Calibration Check Actual 7.0 Buffer value 7.0

Conductivity Meter Calibration Check Actual 1413 Standard value 1413

Eh Meter Calibration Check Actual N/A Standard value N/A

WATER TABLE: Well depth from top of standpipe N/A

Depth from top of standpipe to water table N/A Duplicate .....

Length of water column (LWC) N/A

VOLUME OF WATER IN WELL: 2" diameter well = 0.163 x (LWC) = ... gallons

4" diameter well = 0.653 X (LWC) = ... gallons

6" diameter well = 1.469 X (LWC) = ... gallons

PHYSICAL APPEARANCE BEFORE PURGING: Color ____ Odor ___ Turbidity ____

Is an Oil film or layer apparent? YES___ NO___ IF YES: Top ___ Bottom ___

PREPARATION OF WELL FOR SAMPLING: Pumping Rate = ... GPM (gal. per minute)

Amount of water removed before sampling (purge volume) ..... gallons

Did well go dry? YES___ NO___ Proper disposal of purge water? YES___ NO___

PHYSICAL APPEARANCE DURING SAMPLING:

Color CL Odor SLIGHT Turbidity MODERATE

Was an oil film or layer apparent? YES___ NO X If yes, TOP ___ BOTTOM ___

Conductivity: Start ..... Finish 2510 uMHOS/cm pH (S)..... (F).7.12

Temperature: Start ..... Finish 15.4 (C) or F Eh (S)..... (F).....mV

Sampling Depth: ....N/A..... Depth Recovered To At Sampling N/A.....

DECONTAMINATION OF EQUIPMENT:

Detergent X .1n-HCL X Hexane ___ Methanol ___ D.I. Water X

Notes: _____

_____

_____

Technicians JC | JF Weather 80° RAIN

CHAIN-OF-CUST

Page 1 of 2

CHAIN OF CUSTODY RECORD

PROJECT NO.	CLIENT NAME	# OF CONTAINERS	SAMPLE SITE	SAMPLER'S SIGNATURE
	SYRACUSE CHINA		LANDFILL	James H Edwards

SAMPLE NO.	DATE	TIME	ORIGIN/SOURCE	DESCRIPTION COMP	GRAB	OTHER	ANALYSES/TESTS REQUESTED
MW·1	9·10	2:24	MONITORING WELL		FL 36973	FL 36974	601 + 602 TOTAL + DISSOLVED Pb
MW·2	9·10	3:24	MONITORING WELL		FL 36975	FL 36976	
MW·3	9·10	3:15	MONITORING WELL		FL 36977	FL 36978	
MW·4	9·10	1:18	MONITORING WELL		FL 36979	FL 36980	
MW·5	9·10	2:50	MONITORING WELL		FL 36981	FL 36982	
SW·1	9·10	2:10	SURFACE H_2O		FL 36983	FL 36984	FILTER IN LAB FOR DISS. Pb
SW·2	9·10	2:20	SURFACE H_2O – DRY –		FL 36985		
SW·3	9·10	12:31	SURFACE H_2O		FL 36986	FL 36987	
SW·4	9·10	11:45	SURFACE H_2O		FL 36988	FL 36989	

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME
SIGNATURE James H. Edwards PRINT JAMES H. EDWARDS	9:10 7:00	SIGNATURE PRINT		SIGNATURE PRINT	
RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME	RECEIVED AT LAB BY	DATE/TIME
SIGNATURE PRINT		SIGNATURE PRINT		SIGNATURE Toni Jones PRINT Toni Jones	9/11/91 10:40

REMARKS

FLI ENVIRONMENTAL SERVICES
446 Broad Street * Waverly, NY 14892-1445
Phone (607) 565-2893 * FAX (607) 565-4083

Page 2 of 2

CHAIN OF CUSTODY RECORD

PROJECT NO.	CLIENT NAME	# OF CONTAINERS	SAMPLE SITE	SAMPLER'S SIGNATURE
	SYRACUSE CHINA		LANDFILL	James H. Edwards

SAMPLE NO.	DATE	TIME	ORIGIN/SOURCE	# OF CONTAINERS	DESCRIPTION COMP	GRAB	OTHER	ANALYSES/TESTS REQUESTED
SW·A	9·10	1:08	SURFACE H_2O	FL 36990		X		111 - TRICHLOROETHANE
SW·B	9·10	1:04	SURFACE H_2O	FL 36991		X		111 - TRICHLOROETHANE
SW·C	9·10	12:54	SURFACE H_2O	FL 36992		X		111 - TRICHLOROETHANE

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME
SIGNATURE James H. Edwards PRINT JAMES H. EDWARDS	9:10 7:00	SIGNATURE PRINT		SIGNATURE PRINT	
RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME	RECEIVED AT LAB BY	DATE/TIME
SIGNATURE PRINT		SIGNATURE PRINT		SIGNATURE Lori Jones PRINT Toni Jones	9/11/91 10:40

REMARKS

FLI ENVIRONMENTAL SERVICES

446 Broad Street * Waverly, NY 14892-1445
Phone (607) 565-2893 * FAX (607) 565-4083

WELL RESULTS

FLI
ENVIRONMENTAL
SERVICES

446 BROAD STREET, WAVERLY, NY 14892-1445
TELEPHONE (607) 565-2393 FAX (607) 565-4083

REPORT

DATE : Sep 18, 1991

LAB SAMPLE ID : 36973

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-1
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	0.007	mg/L	09/16/91	EPA 7421	90-56-89

cc :

APPROVED BY: John A. Kenk
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

46 BROAD STREET, WAVERLY, NY 14892-1448
TELEPHONE (607) 565-2853 FAX (607) 565-4067

REPORT

DATE : Sep 22, 1991

LAB SAMPLE ID : 36973

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	SYRACUSE CHINA LANDFILL
ORIGIN	MW-1
DESCRIPTION	GRAB
SAMPLED ON	09/10/91
DATE RECEIVED	09/11/91
PWS ID	

* Key	Method	Analyst	Date Analyzed	Notebook Reference
1	EPA 601/602	PC	09/16/91	91-153-203

Compound Detected	Concentration	Units	Key *
Benzene	ND<1	ug/L	1
Toluene	ND<1	ug/L	1
Chlorobenzene	ND<1	ug/L	1
Ethylbenzene	ND<1	ug/L	1
1,3-Dichlorobenzene	ND<1	ug/L	1
1,4-Dichlorobenzene	ND<1	ug/L	1
1,2-Dichlorobenzene	ND<1	ug/L	1
Dichlorodifluoromethane	ND<1	ug/L	1
Chloromethane	ND<1	ug/L	1
Vinyl Chloride	ND<1	ug/L	1
Bromomethane	ND<1	ug/L	1
Chloroethane	ND<1	ug/L	1
Trichlorofluoromethane	ND<1	ug/L	1
1,1-Dichloroethene	ND<1	ug/L	1
Methylene Chloride	ND<1	ug/L	1
trans-1,2-Dichloroethene	ND<1	ug/L	1
1,1-Dichloroethane	ND<1	ug/L	1
Chloroform	ND<1	ug/L	1
1,1,1-Trichloroethane	ND<1	ug/L	1
Carbon Tetrachloride	ND<1	ug/L	1

APPROVED BY: Patricia A. Saletka
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

[illegible] BROAD STREET, WAVERLY, NY 14892-[illegible]
TELEPHONE (607) 565 2393 FAX (607) 565-4093

LAB SAMPLE ID : 36973

DATE : Sep 22, 1991

Syracuse China Corp.

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: MW-1
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

* Please refer to page 1 for key references.

Compound Detected	Concentration	Units	Key *
1,2-Dichloroethane	ND<1	ug/L	1
Trichloroethene	ND<1	ug/L	1
1,2-Dichloropropane	ND<1	ug/L	1
Bromodichloromethane	ND<1	ug/L	1
2-Chloroethylvinylether	ND<1	ug/L	1
cis-1,3-Dichloropropene	ND<1	ug/L	1
trans-1,3-Dichloropropene	ND<1	ug/L	1
1,1,2-Trichloroethane	ND<1	ug/L	1
Tetrachloroethene	ND<1	ug/L	1
Dibromochloromethane	ND<1	ug/L	1
Bromoform	ND<1	ug/L	1
1,1,2,2-Tetrachloroethane	ND<1	ug/L	1

APPROVED BY: Patricia A. Galetka
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

146 BROAD STREET, WAVERLY, NY 14892-1445
TELEPHONE (607) 565-2393 FAX (607) 565-4083

DRAFT

DATE : Sep 13, 1991

LAB SAMPLE ID : 36973

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	SYRACUSE CHINA LANDFILL
ORIGIN	MW-1
DESCRIPTION	GRAB
SAMPLED ON	09/10/91
DATE RECEIVED	09/11/91
PWS ID	

Analysis Performed	Result	Units	Analysis by	Method
Specific Conductivity	943	uMHOS	JE	EPA 120.1
Sampling Depth	20.38	feet	JE	
Depth to Groundwater	20.38	feet	JE	
pH	7.33		JE	EPA 9040
Temperature	17.2	deg. C	JE	EPA 170.1
Depth recovered to	20.38	feet	JE	

COMMENT :

cc :

APPROVED BY: Randy Hoffman
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

446 BROAD STREET WAVERLY, NY 14892-1445
TELEPHONE (607) 565-2800 FAX (607) 565-4093

REPORT

DATE : Sep 18, 1991

LAB SAMPLE ID : 36974

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-1 DISSOLVED
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	0.006	mg/L	09/16/91	EPA 7421	90-56-69

cc :

APPROVED BY: John A. Kault
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

146 BROAD STREET, WAVERLY, NY 14892-1146
TELEPHONE (607) 565-2893 FAX (607) 565-4063

REPORT

DATE : Sep 18, 1991

LAB SAMPLE ID : 36975

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-2
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	0.006	mg/L	09/16/91	EPA 7421	90-56-89

cc :

APPROVED BY: _____
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

446 ROYAL STREET, WAVERLY, NY 14892
TELEPHONE (607) 565-4393 FAX (607) 565-4390

DATE : Sep 22, 1991

LAB SAMPLE ID : 36975

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: MW-2
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

* Key	Method	Analyst	Date Analyzed	Notebook Reference
1	EPA 601/602	PC	09/16/91	91-153-204

Compound Detected	Concentration	Units	Key *
Benzene	ND<1	ug/L	1
Toluene	ND<1	ug/L	1
Chlorobenzene	ND<1	ug/L	1
Ethylbenzene	ND<1	ug/L	1
1,3-Dichlorobenzene	ND<1	ug/L	1
1,4-Dichlorobenzene	ND<1	ug/L	1
1,2-Dichlorobenzene	ND<1	ug/L	1
Dichlorodifluoromethane	ND<1	ug/L	1
Chloromethane	ND<1	ug/L	1
Vinyl Chloride	ND<1	ug/L	1
Bromomethane	ND<1	ug/L	1
Chloroethane	ND<1	ug/L	1
Trichlorofluoromethane	ND<1	ug/L	1
1,1-Dichloroethene	ND<1	ug/L	1
Methylene Chloride	ND<1	ug/L	1
trans-1,2-Dichloroethene	ND<1	ug/L	1
1,1-Dichloroethane	ND<1	ug/L	1
Chloroform	ND<1	ug/L	1
1,1,1-Trichloroethane	ND<1	ug/L	1
Carbon Tetrachloride	ND<1	ug/L	1

APPROVED BY: Patricia A. Sellers
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

146 BROAD STREET, WAVERLY, NY 14892-1146
TELEPHONE (607) 565-2393 FAX (607) 565-4067

REPORT

DATE : Sep 22, 1991

LAB SAMPLE ID : 36975

Syracuse China Corp.

* Please refer to page 1 for key references.

SAMPLE SOURCE	SYRACUSE CHINA LANDFILL
ORIGIN	MW-2
DESCRIPTION	GRAB
SAMPLED ON	09/10/91
DATE RECEIVED	09/11/91
PWS ID	

Compound Detected	Concentration	Units	Key *
1,2-Dichloroethane	ND<1	ug/L	1
Trichloroethene	ND<1	ug/L	1
1,2-Dichloropropane	ND<1	ug/L	1
Bromodichloromethane	ND<1	ug/L	1
2-Chloroethylvinylether	ND<1	ug/L	1
cis-1,3-Dichloropropene	ND<1	ug/L	1
trans-1,3-Dichloropropene	ND<1	ug/L	1
1,1,2-Trichloroethane	ND<1	ug/L	1
Tetrachloroethene	ND<1	ug/L	1
Dibromochloromethane	ND<1	ug/L	1
Bromoform	ND<1	ug/L	1
1,1,2,2-Tetrachloroethane	ND<1	ug/L	1

APPROVED BY: Patricia A Sabatki
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

408 BROAD STREET, WAVERLY, NY 14892-1441
TELEPHONE (607) 565-2393 FAX (607) 565-4132

DATE : Sep 13, 1991

LAB SAMPLE ID : 36975

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	SYRACUSE CHINA LANDFILL
ORIGIN	MW-2
DESCRIPTION	GRAB
SAMPLED ON	09/10/91
DATE RECEIVED	09/11/91
PWS ID	

Analysis Performed	Result	Units	Analysis by	Method
Specific Conductivity	2180	uMHOS	JE	EPA 120.1
Sampling Depth	6.66	feet	JE	
Depth to Groundwater	6.65	feet	JE	
pH	7.18		JE	EPA 9040
Temperature	22.6	deg. C	JE	EPA 170.1
Depth recovered to	6.66	feet	JE	

COMMENT :

cc :

APPROVED BY: Landy Hoffer
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

146 BROAD STREET, WAVERLY, NY 14892-1345
TELEPHONE (607) 565-2803 FAX (607) 565-4000

DRAFT

DATE : Sep 13, 1991

LAB SAMPLE ID : 36976

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-2 DISSOLVED
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	ND<0.005	mg/L	09/16/91	EPA 7421	90-56-89

cc :

APPROVED BY: _____
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

146 BROAD STREET, WAVERLY, NY 14892
TELEPHONE (607) 565-2803 FAX (607) 565-4163

REPORT

DATE : Sep 18, 1991

LAB SAMPLE ID : 36977

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-3
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	0.020	mg/L	09/17/91	EPA 7421	90-56-90

cc :

APPROVED BY: John A Kent
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

248 BROAD STREET, WAVERLY, NY 14892 14-5
TELEPHONE (607) 565-2593 FAX (607) 565-40[illegible]

REPORT

DATE : Sep 22, 1991

LAB SAMPLE ID : 36977

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	SYRACUSE CHINA LANDFILL
ORIGIN	MW-3
DESCRIPTION	GRAB
SAMPLED ON	09/10/91
DATE RECEIVED	09/11/91
PWS ID	

* Key	Method	Analyst	Date Analyzed	Notebook Reference
1	EPA 601/602	PC	09/16/91	91-153-205

Compound Detected	Concentration	Units	Key *
Benzene	ND<1	ug/L	1
Toluene	ND<1	ug/L	1
Chlorobenzene	ND<1	ug/L	1
Ethylbenzene	ND<1	ug/L	1
1,3-Dichlorobenzene	ND<1	ug/L	1
1,4-Dichlorobenzene	ND<1	ug/L	1
1,2-Dichlorobenzene	ND<1	ug/L	1
Dichlorodifluoromethane	ND<1	ug/L	1
Chloromethane	ND<1	ug/L	1
Vinyl Chloride	ND<1	ug/L	1
Bromomethane	ND<1	ug/L	1
Chloroethane	ND<1	ug/L	1
Trichlorofluoromethane	ND<1	ug/L	1
1,1-Dichloroethene	ND<1	ug/L	1
Methylene Chloride	ND<1	ug/L	1
trans-1,2-Dichloroethene	ND<1	ug/L	1
1,1-Dichloroethane	ND<1	ug/L	1
Chloroform	ND<1	ug/L	1
1,1,1-Trichloroethane	ND<1	ug/L	1
Carbon Tetrachloride	ND<1	ug/L	1

APPROVED BY: Patricia A. Saltka
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

446 BROAD STREET, WAVERLY, NY 14892-1445
TELEPHONE (607) 565-7592 FAX (607) 565-2572

DATE : Sep 22, 1991

LAB SAMPLE ID : 36977

Syracuse China Corp.

* Please refer to page 1 for key references.

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-3
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Compound Detected	Concentration	Units	Key *
1,2-Dichloroethane	ND<1	ug/L	1
Trichloroethene	ND<1	ug/L	1
1,2-Dichloropropane	ND<1	ug/L	1
Bromodichloromethane	ND<1	ug/L	1
2-Chloroethylvinylether	ND<1	ug/L	1
cis-1,3-Dichloropropene	ND<1	ug/L	1
trans-1,3-Dichloropropene	ND<1	ug/L	1
1,1,2-Trichloroethane	ND<1	ug/L	1
Tetrachloroethene	ND<1	ug/L	1
Dibromochloromethane	ND<1	ug/L	1
Bromoform	ND<1	ug/L	1
1,1,2,2-Tetrachloroethane	ND<1	ug/L	1

APPROVED BY: Patricia A. Galetka
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

148 BROAD STREET, WAVERLY, NY 14892-1413
TELEPHONE (607) 565-4132 FAX (607) 565-4067

DATE : Sep 13, 1991

LAB SAMPLE ID : 36977

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-3
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Analysis by	Method
Specific Conductivity	1489	uMHOS	JE	EPA 120.1
Sampling Depth	4.67	feet	JE	
Depth to Groundwater	4.41	feet	JE	
pH	7.31		JE	EPA 9040
Temperature	22.1	deg. C	JE	EPA 170.1
Depth recovered to	4.67	feet	JE	

COMMENT :

cc :

APPROVED BY: Randy Hall
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

443 BROOM STREET, WAVERLY, NY 14892-1445
TELEPHONE (607) 565-2600 FAX (607) 565-4600

DATE : Sep 18, 1991

LAB SAMPLE ID : 36978

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-3 DISSOLVED
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	0.010	mg/L	09/15/91	EPA 7421	90-56-89

cc :

APPROVED BY: John A. Keck
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

[illegible] BROAD STREET WAVERLY, NY 1[illegible]
TELEPHONE (607) 565-2000 FAX (607) 565-4[illegible]

DATE : Sep 20, 1991

LAB SAMPLE ID : 36979

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-4
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	RD<0.005	mg/L	09/19/91	EPA 7421	90-56-91

cc :

APPROVED BY: John D. Kent
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

446 BROAD STREET, WAVERLY, NY 14892-1445
TELEPHONE (607) 565-2893 FAX (607) 565-4083

REPORT

DATE : Sep 25, 1991

LAB SAMPLE ID : 36979

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE :	SYRACUSE CHINA LANDFILL
ORIGIN :	MW-4
DESCRIPTION :	GRAB
SAMPLED ON :	09/10/91
DATE RECEIVED :	09/11/91
PWS ID :	

* Key	Method	Analyst	Date Analyzed	Notebook Reference
1	EPA 601/602	PC	09/16/91	91-153-206

Compound Detected	Concentration	Units	Key *
Benzene	ND<1	ug/L	1
Toluene	ND<1	ug/L	1
Chlorobenzene	ND<1	ug/L	1
Ethylbenzene	ND<1	ug/L	1
1,3-Dichlorobenzene	ND<1	ug/L	1
1,4-Dichlorobenzene	ND<1	ug/L	1
1,2-Dichlorobenzene	ND<1	ug/L	1
Dichlorodifluoromethane	ND<1	ug/L	1
Chloromethane	ND<1	ug/L	1
Vinyl Chloride	ND<1	ug/L	1
Bromomethane	ND<1	ug/L	1
Chloroethane	ND<1	ug/L	1
Trichlorofluoromethane	ND<1	ug/L	1
1,1-Dichloroethene	ND<1	ug/L	1
Methylene Chloride	ND<1	ug/L	1
trans-1,2-Dichloroethene	ND<1	ug/L	1
1,1-Dichloroethane	ND<1	ug/L	1
Chloroform	ND<1	ug/L	1
1,1,1-Trichloroethane	ND<1	ug/L	1
Carbon Tetrachloride	ND<1	ug/L	1

APPROVED BY: Patricia A. Saltzka
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES
446 BROAD STREET, WAVERLY, NY 14892-1445
TELEPHONE (607) 565-2893 FAX (607) 565-4083

REPORT

DATE : Sep 25, 1991

LAB SAMPLE ID : 36979

Syracuse China Corp.

* Please refer to page 1 for key references.

SAMPLE SOURCE	SYRACUSE CHINA LANDFILL
ORIGIN	MW-4
DESCRIPTION	GRAB
SAMPLED ON	09/10/91
DATE RECEIVED	09/11/91
PWS ID	

Compound Detected	Concentration	Units	Key *
1,2-Dichloroethane	ND<1	ug/L	1
Trichloroethene	ND<1	ug/L	1
1,2-Dichloropropane	ND<1	ug/L	1
Bromodichloromethane	ND<1	ug/L	1
2-Chloroethylvinylether	ND<1	ug/L	1
cis-1,3-Dichloropropene	ND<1	ug/L	1
trans-1,3-Dichloropropene	ND<1	ug/L	1
1,1,2-Trichloroethane	ND<1	ug/L	1
Tetrachloroethene	ND<1	ug/L	1
Dibromochloromethane	ND<1	ug/L	1
Bromoform	ND<1	ug/L	1
1,1,2,2-Tetrachloroethane	ND<1	ug/L	1

APPROVED BY: Patricia A Galetka
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

[illegible] BROAD STREET, WAVERLY, NY 14892-[illegible]
TELEPHONE (607) 565-2895 FAX (607) 565-[illegible]

DATE : Sep 13, 1991

LAB SAMPLE ID : 36979

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	SYRACUSE CHINA LANDFILL
ORIGIN	MW-4
DESCRIPTION	GRAB
SAMPLED ON	09/10/91
DATE RECEIVED	09/11/91
PWS ID	

Analysis Performed	Result	Units	Analysis by	Method
Specific Conductivity	2450	uMHOS	JE	EPA 120.1
Sampling Depth	5.91	feet	JE	
Depth to Groundwater	5.90	feet	JE	
pH	7.20		JE	EPA 9040
Temperature	17.2	deg. C	JE	EPA 170.1
Depth recovered to	5.91	feet	JE	

COMMENT :

cc :

APPROVED BY: Randy Hall
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

[illegible] BROAD STREET, WAVERLY, NY 14892-1445
TELEPHONE (607) 565-2893 FAX (607) 565-4083

DATE : Sep 18, 1991

LAB SAMPLE ID : 36980

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-4 DISSOLVED
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	ND<0.005	mg/L	09/17/91	EPA 7421	90-56-90

cc :

APPROVED BY: John A. Kault
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

48 BROAD STREET, WAVERLY, NY [illegible]
TELEPHONE (607) 586-2333 FAX (607) [illegible]

DATE : Sep 18, 1991

LAB SAMPLE ID : 36981

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-5
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	0.008	mg/L	09/16/91	EPA 7421	90-56-89

cc :

APPROVED BY: [signature]
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

56 BROAD STREET, WAVERLY, NY 14892-1440
TELEPHONE (607) 565-2950 FAX (607) 565-4600

DATE : Sep 22, 1991

LAB SAMPLE ID : 36981

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: MW-5
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

* Key	Method	Analyst	Date Analyzed	Notebook Reference
1	EPA 601/602	PC	09/16/91	91-153-207

Compound Detected	Concentration	Units	Key *
Benzene	ND<1	ug/L	1
Toluene	ND<1	ug/L	1
Chlorobenzene	ND<1	ug/L	1
Ethylbenzene	ND<1	ug/L	1
1,3-Dichlorobenzene	ND<1	ug/L	1
1,4-Dichlorobenzene	ND<1	ug/L	1
1,2-Dichlorobenzene	ND<1	ug/L	1
Dichlorodifluoromethane	ND<1	ug/L	1
Chloromethane	ND<1	ug/L	1
Vinyl Chloride	ND<1	ug/L	1
Bromomethane	ND<1	ug/L	1
Chloroethane	ND<1	ug/L	1
Trichlorofluoromethane	ND<1	ug/L	1
1,1-Dichloroethene	ND<1	ug/L	1
Methylene Chloride	ND<1	ug/L	1
trans-1,2-Dichloroethene	ND<1	ug/L	1
1,1-Dichloroethane	ND<1	ug/L	1
Chloroform	ND<1	ug/L	1
1,1,1-Trichloroethane	ND<1	ug/L	1
Carbon Tetrachloride	ND<1	ug/L	1

APPROVED BY: Patricia A. Salotka
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

70 BROAD STREET, WAVERLY, NY 14892-1443
TELEPHONE (607) 565-2899 FAX (607) 565-4032

DATE : Sep 22, 1991

LAB SAMPLE ID : 36981

Syracuse China Corp.

* Please refer to page 1 for key references.

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-5
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Compound Detected	Concentration	Units	Key *
1,2-Dichloroethane	ND<1	ug/L	1
Trichloroethene	ND<1	ug/L	1
1,2-Dichloropropane	ND<1	ug/L	1
Bromodichloromethane	ND<1	ug/L	1
2-Chloroethylvinylether	ND<1	ug/L	1
cis-1,3-Dichloropropene	ND<1	ug/L	1
trans-1,3-Dichloropropene	ND<1	ug/L	1
1,1,2-Trichloroethane	ND<1	ug/L	1
Tetrachloroethene	ND<1	ug/L	1
Dibromochloromethane	ND<1	ug/L	1
Bromoform	ND<1	ug/L	1
1,1,2,2-Tetrachloroethane	ND<1	ug/L	1

APPROVED BY: Patricia A Saletta
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

40 ARNOLD STREET, WAVERLY, NY 14892-1143
TELEPHONE (607) 565-2083 FAX (607) 565-4063

DATE : Sep 13, 1991

LAB SAMPLE ID : 36981

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-5
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Analysis by	Method
Specific Conductivity	1020	uMHOS	JE	EPA 120.1
Sampling Depth	5.26	feet	JE	
Depth to Groundwater	5.23	feet	JE	
pH	7.44		JE	EPA 9040
Temperature	20.4	deg. C	JE	EPA 170.1
Depth recovered to	5.26	feet	JE	

COMMENT :

cc :

APPROVED BY: Randy Shaffer
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

346 BROAD STREET, WAVERLY, NY 14892-1143
TELEPHONE (607) 565 2393 FAX (607) 565-4000

DATE : Sep 18, 1991

LAB SAMPLE ID : 36982

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	MW-5 DISSOLVED
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	ND<0.005	mg/l	09/16/91	EPA 7421	90-56-89

cc :

APPROVED BY: John A. Kent
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

SURFACE WATER

FLI
ENVIRONMENTAL
SERVICES

46 BROAD STREET, WAVERLY, NY 14892 (USA)
TELEPHONE (607) 565 2393 FAX (607) 565-4063

DATE : Sep 18, 1991

LAB SAMPLE ID : 36983

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	SW-1
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	0.46	mg/L	09/17/91	EPA 7421	90-56-90

cc :

APPROVED BY: John A Kent
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

446 BROAD STREET, WAVERLY, NY 14892-1043
TELEPHONE (607) 565-2893 FAX (607) 565-4042

LAB SAMPLE ID : 36983

DATE : Sep 22, 1991

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: SW-1
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

* Key	Method	Analyst	Date Analyzed	Notebook Reference
1	EPA 601/602	PC	09/16/91	91-153-208

Compound Detected	Concentration	Units	Key *
Benzene	<1	ug/L	1
Toluene	2	ug/L	1
Chlorobenzene	ND<1	ug/L	1
Ethylbenzene	ND<1	ug/L	1
1,3-Dichlorobenzene	ND<1	ug/L	1
1,4-Dichlorobenzene	ND<1	ug/L	1
1,2-Dichlorobenzene	ND<1	ug/L	1
Dichlorodifluoromethane	ND<1	ug/L	1
Chloromethane	ND<1	ug/L	1
Vinyl Chloride	ND<1	ug/L	1
Bromomethane	ND<1	ug/L	1
Chloroethane	ND<1	ug/L	1
Trichlorofluoromethane	ND<1	ug/L	1
1,1-Dichloroethene	ND<1	ug/L	1
Methylene Chloride	ND<1	ug/L	1
trans-1,2-Dichloroethene	ND<1	ug/L	1
1,1-Dichloroethane	ND<1	ug/L	1
Chloroform	ND<1	ug/L	1
1,1,1-Trichloroethane	ND<1	ug/L	1
Carbon Tetrachloride	ND<1	ug/L	1

APPROVED BY: Patricia A. Calkins
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

446 BROAD STREET, WAVERLY, NY 14892-1445
TELEPHONE (607) 565-3253 FAX (607) 565-2600

DATE : Sep 22, 1991

LAB SAMPLE ID : 36983

Syracuse China Corp.

* Please refer to page 1 for key references.

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: SW-1
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

Compound Detected	Concentration	Units	Key *
1,2-Dichloroethane	ND<1	ug/L	1
Trichloroethene	ND<1	ug/L	1
1,2-Dichloropropane	ND<1	ug/L	1
Bromodichloromethane	ND<1	ug/L	1
2-Chloroethylvinylether	ND<1	ug/L	1
cis-1,3-Dichloropropene	ND<1	ug/L	1
trans-1,3-Dichloropropene	ND<1	ug/L	1
1,1,2-Trichloroethane	ND<1	ug/L	1
Tetrachloroethene	ND<1	ug/L	1
Dibromochloromethane	ND<1	ug/L	1
Bromoform	ND<1	ug/L	1
1,1,2,2-Tetrachloroethane	ND<1	ug/L	1

APPROVED BY: Patricia A. Salotka
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

DATE : Sep 13, 1991

LAB SAMPLE ID : 36983

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	SW-1
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Analysis by	Method
Specific Conductivity	3220	uMHOS	JE	EPA 120.1
Sampling Depth	N/A			
Depth to Groundwater	N/A			
pH	6.81		JE	EPA 9040
Temperature	20.2	deg. C	JE	EPA 170.1
Depth recovered to	N/A			

COMMENT :

cc :

APPROVED BY: Randy Hoff
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

[illegible] STREET, WAVERLY, NY 14892 [illegible]
TELEPHONE (607) 565-2600 FAX (607) 565-4000

REPORT

DATE : Sep 18, 1991

LAB SAMPLE ID : 36984

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	SW-1 DISSOLVED
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	0.010	mg/L	09/17/91	EPA 7421	90-55-90

cc :

APPROVED BY: [signature]
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

446 BROAD STREET, ... NEPLY, NY 14303 ...
TELEPHONE ... FAX (607) ...

DATE : Sep 18, 1991

LAB SAMPLE ID : 36985

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: SW-2
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

* Key	Method	Analyst	Date Analyzed	Notebook Reference

Compound Detected	Concentration	Units	Key *

The sample site was dry.
No analyses were performed.

APPROVED BY: James M. Edwards
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

[illegible] BROAD STREET, WAVERLY
TELEPHONE (607) 565-2893

DATE : Sep 17, 1991

LAB SAMPLE ID : 30935

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE :	SYRACUSE CHINA LANDFILL
ORIGIN :	SW-3
DESCRIPTION :	GRAB
SAMPLED ON :	09/10/91
DATE RECEIVED :	09/11/91
PWS ID :	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	BD<0.005	mg/L	09/12/91	EPA 7421	90-56-88

APPROVED BY: [signature] MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

DATE : Sep 22, 1991

LAB SAMPLE ID : 36986

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: SW-3
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

* Key	Method	Analyst	Date Analyzed	Notebook Reference
1	EPA 601/602	PC	09/16/91	91-153-201

Compound Detected	Concentration	Units	Key *
Benzene	ND<1	ug/L	1
Toluene	ND<1	ug/L	1
Chlorobenzene	ND<1	ug/L	1
Ethylbenzene	ND<1	ug/L	1
1,3-Dichlorobenzene	ND<1	ug/L	1
1,4-Dichlorobenzene	ND<1	ug/L	1
1,2-Dichlorobenzene	ND<1	ug/L	1
Dichlorodifluoromethane	ND<1	ug/L	1
Chloromethane	ND<1	ug/L	1
Vinyl Chloride	ND<1	ug/L	1
Bromomethane	ND<1	ug/L	1
Chloroethane	ND<1	ug/L	1
Trichlorofluoromethane	ND<1	ug/L	1
1,1-Dichloroethene	ND<1	ug/L	1
Methylene Chloride	ND<1	ug/L	1
trans-1,2-Dichloroethene	ND<1	ug/L	1
1,1-Dichloroethane	6	ug/L	1
Chloroform	ND<1	ug/L	1
1,1,1-Trichloroethane	13	ug/L	1
Carbon Tetrachloride	ND<1	ug/L	1

APPROVED BY: Patricia A. Liliki
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

[illegible] STREET, [illegible]
TELEPHONE (607) [illegible]

LAB SAMPLE ID : 36986

DATE : Sep 22, 1991

Syracuse China Corp.

* Please refer to page 1 for key references.

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: SW-3
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

Compound Detected	Concentration	Units	Key *
1,2-Dichloroethane	ND<1	ug/L	1
Trichloroethene	ND<1	ug/L	1
1,2-Dichloropropane	ND<1	ug/L	1
Bromodichloromethane	ND<1	ug/L	1
2-Chloroethylvinylether	ND<1	ug/L	1
cis-1,3-Dichloropropene	ND<1	ug/L	1
trans-1,3-Dichloropropene	ND<1	ug/L	1
1,1,2-Trichloroethane	ND<1	ug/L	1
Tetrachloroethene	ND<1	ug/L	1
Dibromochloromethane	ND<1	ug/L	1
Bromoform	ND<1	ug/L	1
1,1,2,2-Tetrachloroethane	ND<1	ug/L	1

APPROVED BY: Patricia A. Galetta
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

DATE : Sep 13, 1991

LAB SAMPLE ID : 36986

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: SW-3
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

Analysis Performed	Result	Units	Analysis by	Method
Specific Conductivity	1371	uMHOS	JE	EPA 120.1
Sampling Depth	N/A			
Depth to Groundwater	N/A			
pH	7.15		JE	EPA 9040
Temperature	13.8	deg. C	JE	EPA 170.1
Depth recovered to	N/A			

COMMENT :

cc :

APPROVED BY: Randy Hill
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

146 BROAD STREET [illegible] 202-1445
TELEPHONE (607) 56[illegible] 565-4083

DATE : Sep 20, 1991

LAB SAMPLE ID : 36987

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE :	SYRACUSE CHINA LANDFILL
ORIGIN :	SW-3 DISSOLVED
DESCRIPTION :	GRAB
SAMPLED ON :	09/10/91
DATE RECEIVED :	09/11/91
PWS ID :	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	ND<0.005	mg/L	09/19/91	EPA 7421	90-56-91

APPROVED BY: John A Kouck
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

ENVIRONMENTAL SERVICES

[illegible] BROAD STREET, [illegible] 13092 1445
TELEPHONE (607) 5[illegible] (315) 365-4083

DATE : Sep 18, 1991

LAB SAMPLE ID : 36988

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	SW-4
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	0.007	mg/l	09/17/91	EPA 7421	90-56-90

cc :

APPROVED BY: [signature] MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

ENVIRONMENTAL SERVICES

[illegible] ROAD STREET, WAY[illegible]
TELEPHONE (607) 565-2[illegible]

DATE : Sep 22, 1991

LAB SAMPLE ID : 36988

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: SW-4
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

* Key	Method	Analyst	Date Analyzed	Notebook Reference
1	EPA 601/602	PC	09/16/91	91-153-202

Compound Detected	Concentration	Units	Key *
Benzene	ND<1	ug/L	1
Toluene	ND<1	ug/L	1
Chlorobenzene	ND<1	ug/L	1
Ethylbenzene	ND<1	ug/L	1
1,3-Dichlorobenzene	ND<1	ug/L	1
1,4-Dichlorobenzene	ND<1	ug/L	1
1,2-Dichlorobenzene	ND<1	ug/L	1
Dichlorodifluoromethane	ND<1	ug/L	1
Chloromethane	ND<1	ug/L	1
Vinyl Chloride	ND<1	ug/L	1
Bromomethane	ND<1	ug/L	1
Chloroethane	ND<1	ug/L	1
Trichlorofluoromethane	ND<1	ug/L	1
1,1-Dichloroethene	ND<1	ug/L	1
Methylene Chloride	ND<1	ug/L	1
trans-1,2-Dichloroethene	ND<1	ug/L	1
1,1-Dichloroethane	ND<1	ug/L	1
Chloroform	ND<1	ug/L	1
1,1,1-Trichloroethane	ND<1	ug/L	1
Carbon Tetrachloride			

APPROVED BY: Patricia A. Lilitki
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

[illegible] STREET WAVERLY, NY [illegible]
[illegible] (607) 565-2393 FAX (607) [illegible]

DATE : Sep 22, 1991

LAB SAMPLE ID : 36988

Syracuse China Corp.

* Please refer to page 1 for key references.

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: SW-4
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

Compound Detected	Concentration	Units	Key *
1,2-Dichloroethane	ND<1	ug/L	1
Trichloroethene	ND<1	ug/L	1
1,2-Dichloropropane	ND<1	ug/L	1
Bromodichloromethane	ND<1	ug/L	1
2-Chloroethylvinylether	ND<1	ug/L	1
cis-1,3-Dichloropropene	ND<1	ug/L	1
trans-1,3-Dichloropropene	ND<1	ug/L	1
1,1,2-Trichloroethane	ND<1	ug/L	1
Tetrachloroethene	ND<1	ug/L	1
Dibromochloromethane	ND<1	ug/L	1
Bromoform	ND<1	ug/L	1
1,1,2,2-Tetrachloroethane	ND<1	ug/L	1

APPROVED BY: Patricia A. Sabatka
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

ENVIRONMENTAL SERVICES

46 BROAD STREET, WAVERLY
TELEPHONE (607) 565-2693

DATE : Sep 13, 1991

LAB SAMPLE ID : 36988

SAMPLE SOURCE	SYRACUSE CHINA LANDFILL
ORIGIN	SW-4
DESCRIPTION	GRAB
SAMPLED ON	09/10/91
DATE RECEIVED	09/11/91
PWS ID	

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

Analysis Performed	Result	Units	Analysis by	Method
Specific Conductivity	519	uMHOS	JE	EPA 120.1
Sampling Depth	N/A			
Depth to Groundwater	N/A			
pH	7.18		JE	EPA 9040
Temperature	22.2	deg. C	JE	EPA 170.1
Depth recovered to	N/A			

COMMENT :

cc :

APPROVED BY: Randy Hall
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

418 BROAD STREET WAVERLY, NY 14892-1443
TELEPHONE (607) 565-2213 FAX (607) 565-4000

REPORT

LAB SAMPLE ID : 36989

DATE : Sep 17, 1991

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	SW-4 DISSOLVED
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference
Lead	ED<0.005	mg/L	09/12/91	EPA 7421	90-56-88

cc :

APPROVED BY: John A Kerk
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

LAB SAMPLE ID : 36990

DATE : Sep 22, 1991

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	SYRACUSE CHINA LANDFILL
ORIGIN	SW-A
DESCRIPTION	GRAB
SAMPLED ON	09/10/91
DATE RECEIVED	09/11/91
PWS ID	

* Key	Method	Analyst	Date Analyzed	Notebook Reference
1	EPA 601	PC	09/16/91	91-153-212

Compound Detected	Concentration	Units	Key *
1,1,1-Trichloroethane	17	ug/L	1

APPROVED BY: Patricia A. Sabetka
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

[illegible]

LAB SAMPLE ID : 36990

DATE : Sep 13, 1991

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE :	SYRACUSE CHINA LANDFILL
ORIGIN :	SW-A
DESCRIPTION :	GRAB
SAMPLED ON :	09/10/91
DATE RECEIVED :	09/11/91
PWS ID :	

Analysis Performed	Result	Units	Analysis by	Method
Specific Conductivity	2630	uMHOS	JE	EPA 120.1
pH	7.29		JE	EPA 9040
Temperature	14.0	deg. C	JE	EPA 170.1

COMMENT :

cc :

APPROVED BY: Randy Hoff
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

LAB SAMPLE ID : 36991

DATE : Sep 22, 1991

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	: SYRACUSE CHINA LANDFILL
ORIGIN	: SW-B
DESCRIPTION	: GRAB
SAMPLED ON	: 09/10/91
DATE RECEIVED	: 09/11/91
PWS ID	:

* Key	Method	Analyst	Date Analyzed	Notebook Reference
1	EPA 601	PC	09/16/91	91-153-213

Compound Detected	Concentration	Units	Key *
1,1,1-Trichloroethane	23	ug/L	1

APPROVED BY: Patricia A. Gilbert
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

DATE : Sep 13, 1991

LAB SAMPLE ID : 36991

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	:	SYRACUSE CHINA LANDFILL
ORIGIN	:	SW-B
DESCRIPTION	:	GRAB
SAMPLED ON	:	09/10/91
DATE RECEIVED	:	09/11/91
PWS ID	:	

Analysis Performed	Result	Units	Analysis by	Method
Specific Conductivity	2730	uMHOS	JE	EPA 120.1
pH	7.17		JE	EPA 9040
Temperature	14.1	deg. C	JE	EPA 170.1

COMMENT :

cc :

APPROVED BY: Randy Hall
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

46 WAVERLY STREET, WAVERLY, NY 14892-1436
TELEPHONE (607) 565-2600 FAX (607) 565-2601

DATE : Sep 22, 1991

LAB SAMPLE ID : 36992

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE	SYRACUSE CHINA LANDFILL
ORIGIN	SW-C
DESCRIPTION	GRAB
SAMPLED ON	09/10/91
DATE RECEIVED	09/11/91
PWS ID	

* Key	Method	Analyst	Date Analyzed	Notebook Reference
1	EPA 601	PC	09/16/91	91-153-214

Compound Detected	Concentration	Units	Key *
1,1,1-Trichloroethane	ND<1	ug/L	1

APPROVED BY: Patricia A. Galetka
MANAGER

cc :

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI
ENVIRONMENTAL
SERVICES

46 Bronson Street • Fulton, NY 13069 (315)
Telephone (315) 593-8109 • Telefax 593-3427

DATE : Sep 13, 1991

LAB SAMPLE ID : 36992

Syracuse China Corp.
Phil Harvard
2900 Court Street
P.O. Box 4820
Syracuse, NY 13221

SAMPLE SOURCE :	SYRACUSE CHINA LANDFILL
ORIGIN :	SW-C
DESCRIPTION :	GRAB
SAMPLED ON :	09/10/91
DATE RECEIVED :	09/11/91
PWS ID :	

Analysis Performed	Result	Units	Analysis by	Method
Specific Conductivity	2510	uMHOS	JE	EPA 120.1
pH	7.12		JE	EPA 9040
Temperature	15.4	deg. C	JE	EPA 170.1

COMMENT :

cc :

APPROVED BY: Randy McGrath
MANAGER

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

POST-EXCAVATION AND LANDFILL CAP AS-BUILT SURVEYS

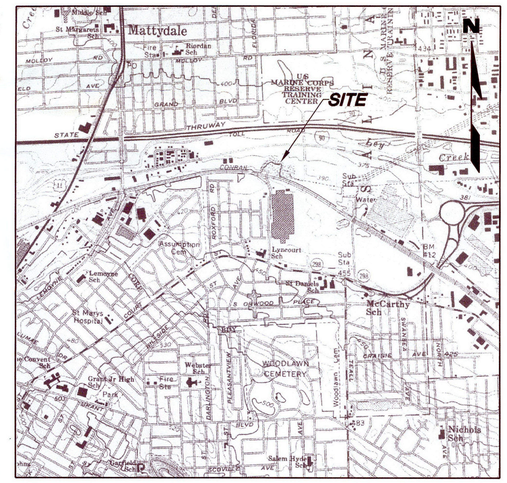
SYRACUSE CHINA LANDFILL
TOWN OF SALINA
ONONDAGA COUNTY, NEW YORK

PREPARED FOR:

PFALTZGRAFF CO.
YORK, PENNSYLVANIA

LIST OF DRAWINGS

SHEET NUMBER	DRAWING TITLE
1	TITLE SHEET
2	PRE-REMEDIATION CONDITIONS/KEY MAP
3	2000 POST-EXCAVATION SURVEYS
4	2000 POST-EXCAVATION AND COMMON FILL SURVEYS
5	AUGUST/SEPTEMBER 2001 WETLANDS POST-EXCAVATION SURVEY
6	OCTOBER 2001 GEOMEMBRANE AS-BUILT SURVEY
7	OCTOBER 2001 LANDFILL CAP SAND LAYER AS-BUILT SURVEY
8	NOVEMBER/DECEMBER 2001 COMMON FILL AS-BUILT SURVEY
9	NOVEMBER/DECEMBER 2001, MARCH 2005 TOPSOIL AS-BUILT SURVEY


Mattydale
SITE
N
U.S. MARINE CORPS RESERVE TRAINING CENTER
Assumption Cem
Lynncourt Sch
Lemoyne Sch
St Marys Parochial
Convent Sch
Great Jr High Sch
Webster Sch
WOODLAWN CEMETERY
McCarthy Sch
Nichols Sch
Salem Hills
Fire Sta
Sub Sta
Water
BM EL 512
Creek
Ley
Park
Ave
Blvd
Pkwy
Rd
St
Dr
Ln
Pl
Cir
Ter
Trl
Hwy
Thruway
Toll
Bay
Grand
State
Molloy
Woodard
Seneca
Onondaga
Lemoyne
Ridge
Pickett
Bellaire
Fairfield
Lakefront
Marshall
Hamilton
Woodlawn
Cemetery
Crest
Cheryl
Lynn
Sunset
Lawrence
Ellis
Elo
Avc
Ko
Ko
Ko



NOTES

LEGEND

- RAILROAD TRACKS
- UTILITY POLE WITH OVERHEAD WIRES
- UNDERGROUND TELEPHONE CABLE MARKER
- GAS MARKER
- SANITARY SEWER LINE
- MONUMENT SET 3-8-1990 (CAPPED IRON ROD SET IN CONCRETE)
- WETLAND BOUNDARY (SEE NOTE 4)
- PRE-REMEDIATION APPROXIMATE LANDFILL LIMIT
- MONITOR WELL
- TP 3 TEST PIT
- PROPERTY BOUNDARY
- 1-FOOT CONTOUR
- 10-FOOT CONTOUR
- 505/347 LOT BOUNDARY AND DEED REFERENCE

NOTES

1. BASIS OF BEARINGS: TRUE NORTH, BASED ON CONTROL ESTABLISHED BY N.Y.S.D.O.T.
2. NORTH & EAST COORDINATES AND BEARINGS IN PARENTHESIS () ARE REFERENCED TO THE CENTRAL ZONE OF THE NEW YORK STATE COORDINATE SYSTEM AS ESTABLISHED BY DIFFERENTIAL GPS METHODS.
3. ELEVATION DATUM IS MEAN SEA LEVEL, BASED ON CONTROL ESTABLISHED BY U.S.G.S. (NGVD 29)
4. WETLAND BOUNDARIES LOCATED AS FLAGGED BY TERRESTRIAL ENVIRONMENTAL SPECIALISTS, INC. (DEC. 1990).

NO.	DATE	REVISION DESCRIPTION	INT.

LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK — CHARLES J. McGRATH — 12/06

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PROJECT ENGINEER:	PROJECT NO.
MMH	57701Y03
DESIGNED BY:	FILE NO.
MMH	57701108
DRAWN BY:	SCALE:
PJT	1" = 80'
CHECKED BY:	DATE:
MMH	12/06/05

REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS
209 Shafter Street
Islandia, New York 11749

PROJECT NAME: SYRACUSE CHINA LANDFILL
SYRACUSE, NEW YORK

PROJECT FOR: PFALTZGRAFF CO.

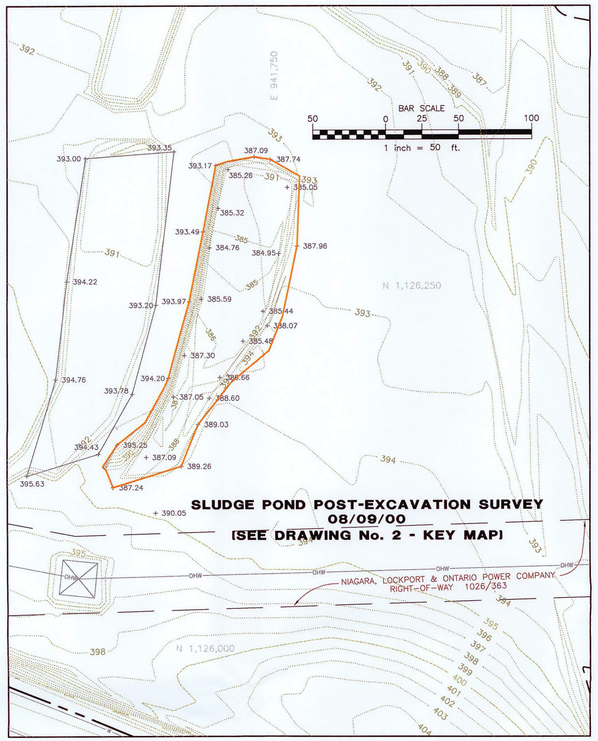
TITLE: PRE-REMEDIATION CONDITIONS/KEY MAP

DRAWING NO. 2

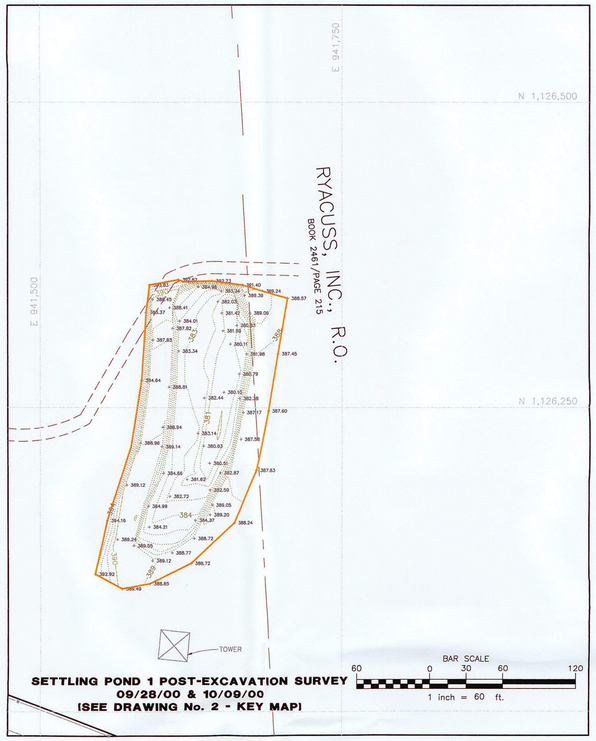
2 of 9

Plot Scale: 1=1 Date: 12/06/05 File Name: 57701108 AS-BUILT SHEET 2

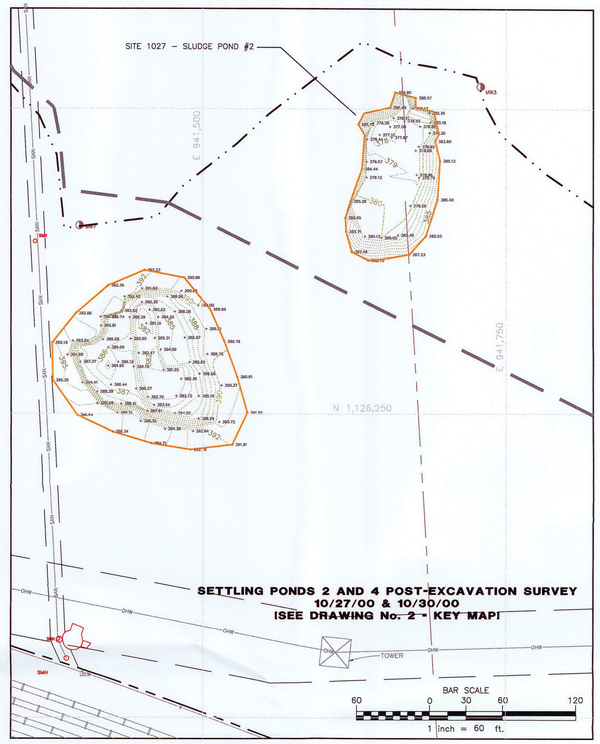
NAD 83 NYS GRID



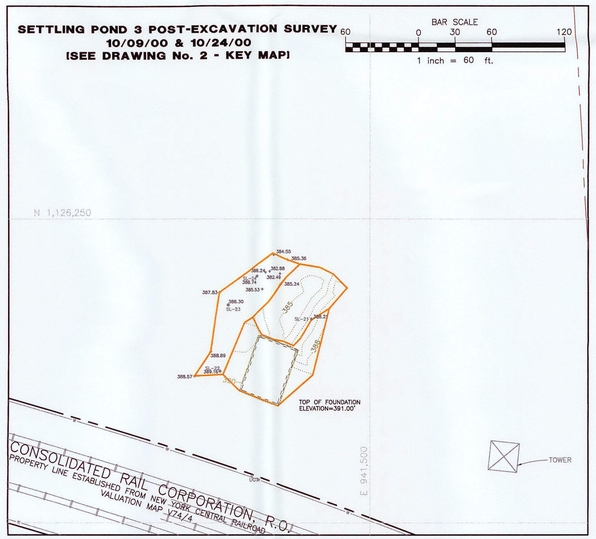
SLUDGE POND POST-EXCAVATION SURVEY
08/09/00
(SEE DRAWING No. 2 - KEY MAP)



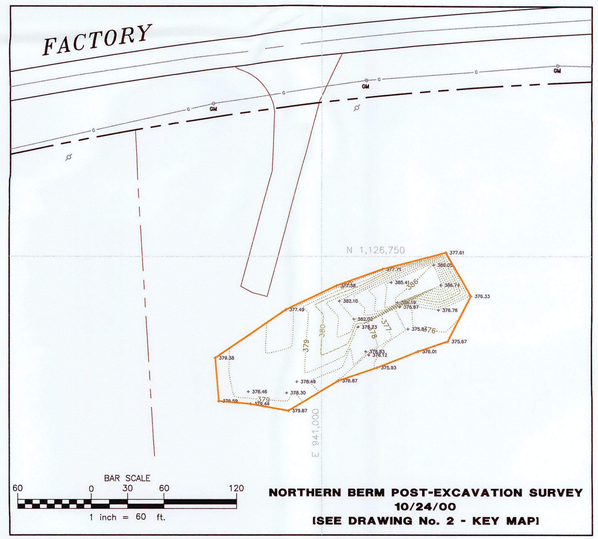
SETTLING POND 1 POST-EXCAVATION SURVEY
09/28/00 & 10/09/00
(SEE DRAWING No. 2 - KEY MAP)



SETTLING PONDS 2 AND 4 POST-EXCAVATION SURVEY
10/27/00 & 10/30/00
(SEE DRAWING No. 2 - KEY MAP)



SETTLING POND 3 POST-EXCAVATION SURVEY
10/09/00 & 10/24/00
(SEE DRAWING No. 2 - KEY MAP)



NORTHERN BERM POST-EXCAVATION SURVEY
10/24/00
(SEE DRAWING No. 2 - KEY MAP)

MAP NOTES

1.) NORTH ORIENTATION BASED ON THE CENTRAL ZONE OF THE NYS PLANE COORDINATE SYSTEM (NAD 83)

2.) ELEVATIONS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)

REFERENCE

ALL DATA PRESENTED ON THIS DRAWING IS TAKEN FROM "RECORD DRAWINGS SYRACUSE CHINA LANDFILL 2000 EXCAVATION SURVEYS", DRAWING NUMBER 05-168 PREPARED BY C.T. MALE ASSOCIATES, P.C. OF SYRACUSE, NEW YORK.

LEGEND

- SPOT ELEVATION
- POST-EXCAVATION CONTOUR
- WETLAND BOUNDARY
- LIMIT OF EXCAVATION
- RAILROAD TRACKS
- UTILITY POLE WITH OVERHEAD WIRES
- PROPERTY BOUNDARY
- WATER LINE
- GAS LINE WITH GAS MAIN
- LOT BOUNDARY AND DEED REFERENCE

Date: 09/22/05 File: Notes: None
Plot Scale: 1=1

NO.	DATE	REVISION DESCRIPTION	INT.

STATE OF NEW YORK · CHARLES J. MACCHIA · NO. 065078 · PROFESSIONAL ENGINEER
1/31/06

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PROJECT ENGINEER: MH
DESIGNED BY: MH
DRAWN BY: PJT
CHECKED BY: MH/CJM

PROJECT NO. 57701Y03
FILE NO. 57701097
SCALE: 1" = 60'
DATE: 09/22/05

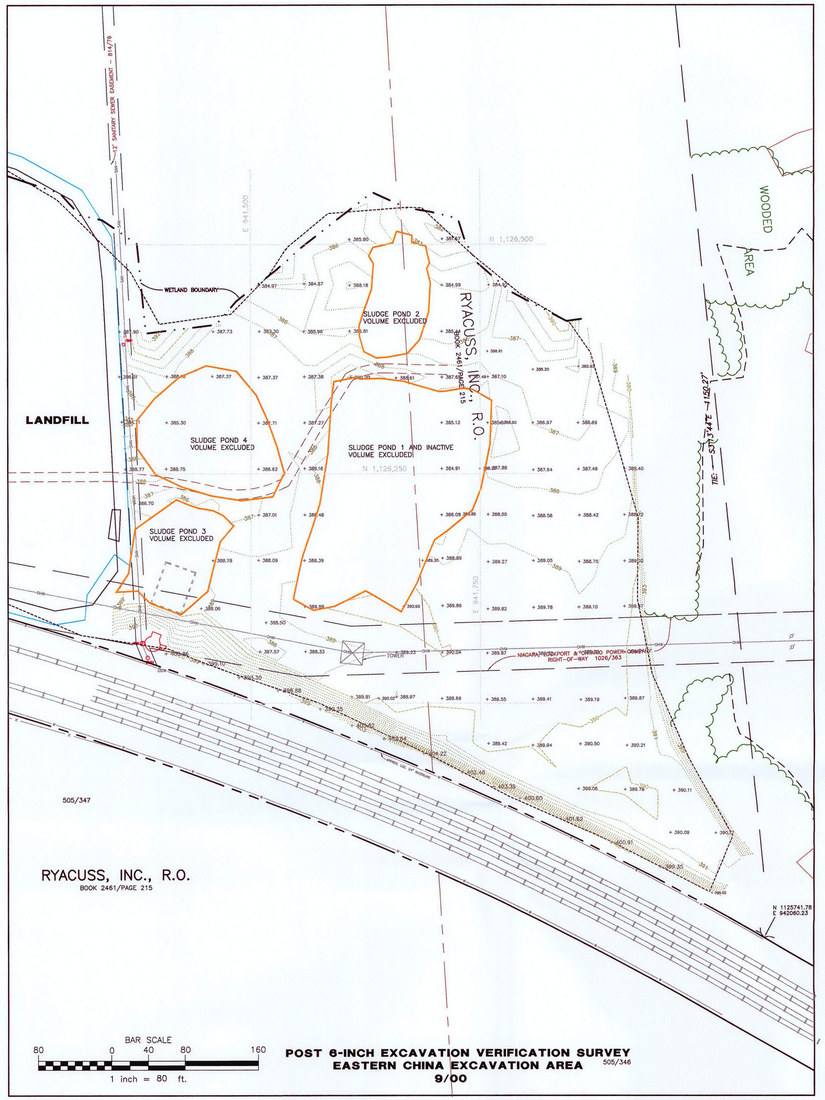
REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS
209 Shafter Street
Islandia, New York 11749

PROJECT NAME: SYRACUSE CHINA LANDFILL
SYRACUSE, NEW YORK

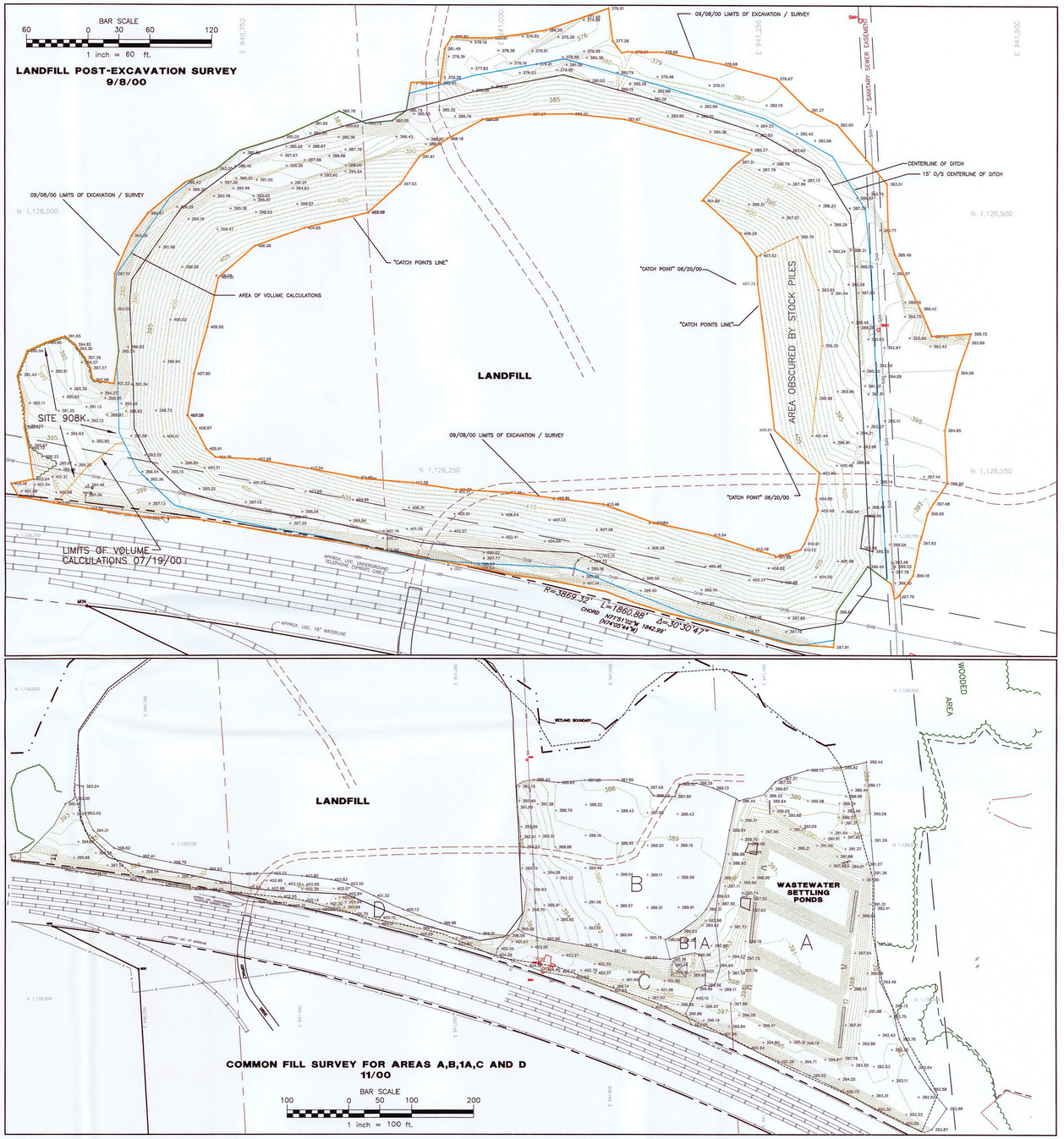
PROJECT FOR: PFALTZGRAFF CO.

TITLE: 2000 POST-EXCAVATION SURVEYS

DRAWING NO. 3



POST 6-INCH EXCAVATION VERIFICATION SURVEY
EASTERN CHINA EXCAVATION AREA 505/346
9/00



MAP NOTES

1.) NORTH ORIENTATION BASED ON THE CENTRAL ZONE OF THE NYS PLANE COORDINATE SYSTEM (NAD 83)

2.) ELEVATIONS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)

3.) WETLAND BOUNDARIES LOCATED AS FLAGGED BY TERRESTRIAL ENVIRONMENTAL SPECIALISTS, INC. (DEC. 1990)

REFERENCE

ALL DATA PRESENTED ON THIS DRAWING IS TAKEN FROM "RECORD DRAWINGS SYRACUSE CHINA LANDFILL 2000 EXCAVATION SURVEYS", DRAWING NUMBER 05-168 PREPARED BY C.T. MALE ASSOCIATES, P.C. OF SYRACUSE, NEW YORK.

LEGEND

- SPOT ELEVATION
- POST-EXCAVATION CONTOUR
- WETLAND BOUNDARY
- LIMIT OF EXCAVATION
- RAILROAD TRACKS
- SANITARY SEWER LINE
- UTILITY POLE WITH OVERHEAD WIRES
- PROPERTY BOUNDARY
- FENCE LINE
- GAS LINE WITH GAS MAIN
- LOT BOUNDARY AND DEED REFERENCE
- MONUMENT SET 3-8-1990 (CAPPED IRON ROD SET IN CONCRETE)

Date: 09/22/05 File Name: None

Plot Scale: 1=1

NO.	DATE	REVISION DESCRIPTION	INT.

STATE OF NEW YORK · CHARLES J. McGLYNN · LICENSED PROFESSIONAL ENGINEER · NO. 065805 · 1/31/06

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PROJECT ENGINEER:	MH
DESIGNED BY:	MH
DRAWN BY:	PJT
CHECKED BY:	MH/CJM
PROJECT NO.	57701Y03
FILE NO.	57701097
SCALE:	1" = 60'
DATE:	09/22/05

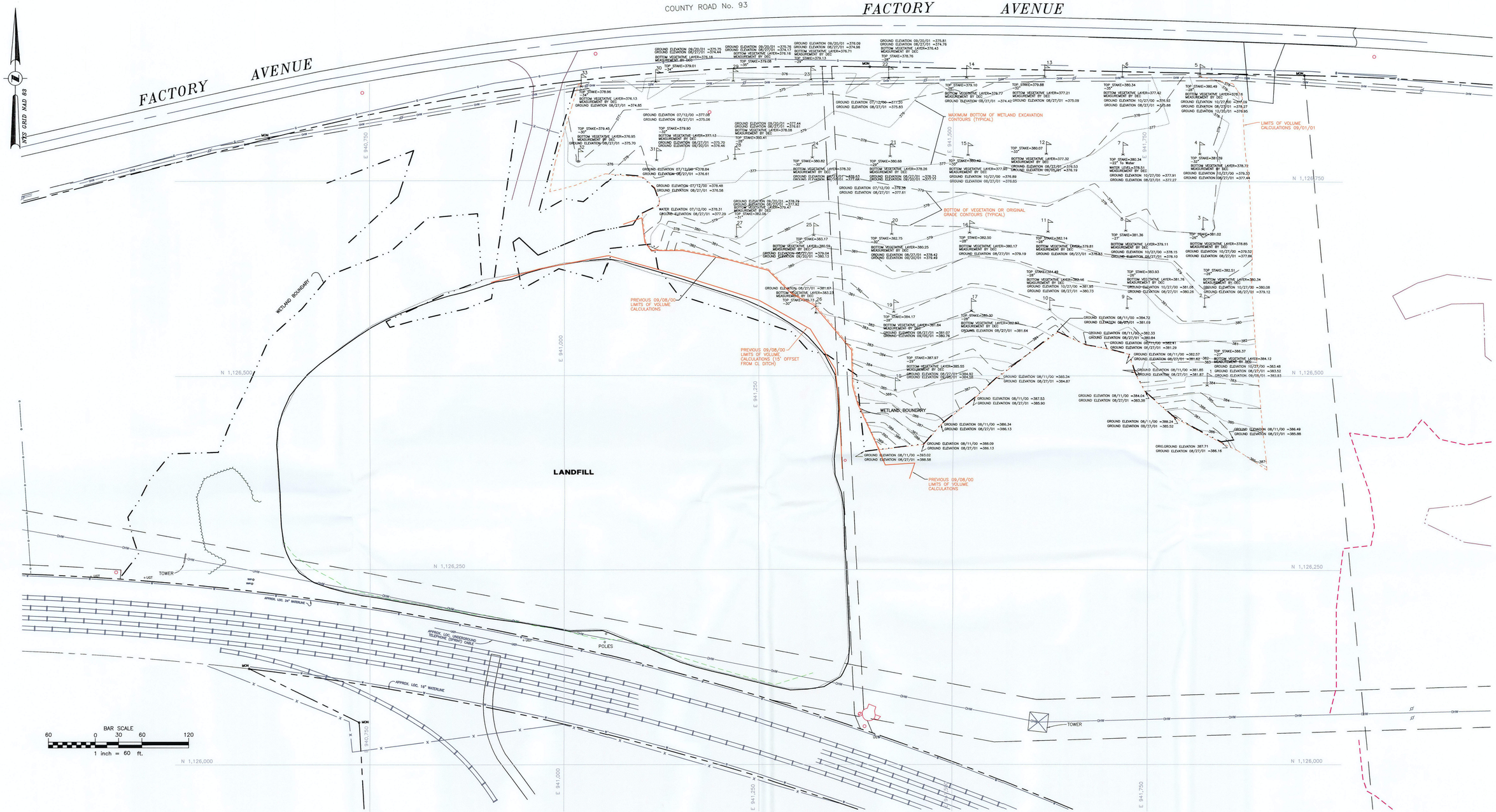
REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS
209 Shafter Street
Islandia, New York 11749

PROJECT NAME:
SYRACUSE CHINA LANDFILL
SYRACUSE, NEW YORK

PROJECT FOR:
PFALTZGRAFF CO.

TITLE:
2000 POST EXCAVATION AND COMMON FILL SURVEYS

DRAWING NO.
4
4 of 9



MAP NOTES

1.) NORTH ORIENTATION BASED ON THE CENTRAL ZONE OF THE NYS PLANE COORDINATE SYSTEM (NAD 83)

2.) ELEVATIONS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)

3.) WETLAND BOUNDARIES LOCATED AS FLAGGED BY TERRESTRIAL ENVIRONMENTAL SPECIALISTS, INC. (DEC. 1990)

REFERENCE

ALL DATA PRESENTED ON THIS DRAWING IS TAKEN FROM "RECORD DRAWINGS SYRACUSE CHINA LANDFILL 2000 EXCAVATION SURVEYS", DRAWING NUMBER 05-168 PREPARED BY C.T. MALE ASSOCIATES, P.C. OF SYRACUSE, NEW YORK.

LEGEND

- SPOT ELEVATION
- POST-EXCAVATION CONTOUR
- PRE-EXISTING CONTOUR
- WETLAND BOUNDARY
- RAILROAD TRACKS
- 09/01 LIMIT OF VOLUME CALCULATION
- 09/00 LIMIT OF VOLUME CALCULATION
- UTILITY POLE WITH OVERHEAD WIRES
- PROPERTY BOUNDARY
- FENCE LINE
- GAS LINE WITH GAS MAIN
- LOT BOUNDARY AND DEED REFERENCE
- SANITARY SEWER LINE
- WATER LINE
- MONUMENT SET 3-8-1990 (CAPPED IRON ROD SET IN CONCRETE)
- GRADE STAKE LOCATION

NO.	DATE	REVISION DESCRIPTION	INT.

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PROJECT ENGINEER:	MH
DESIGNED BY:	MH
DRAWN BY:	PJT
CHECKED BY:	MH/CJM
PROJECT NO.	57701Y03
FILE NO.	57701098
SCALE:	1" = 60'
DATE:	09/22/05

REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS
209 Shafter Street
Islandia, New York 11749

PROJECT NAME:
SYRACUSE CHINA LANDFILL
SYRACUSE, NEW YORK

PROJECT FOR:
PFALTZGRAFF CO.

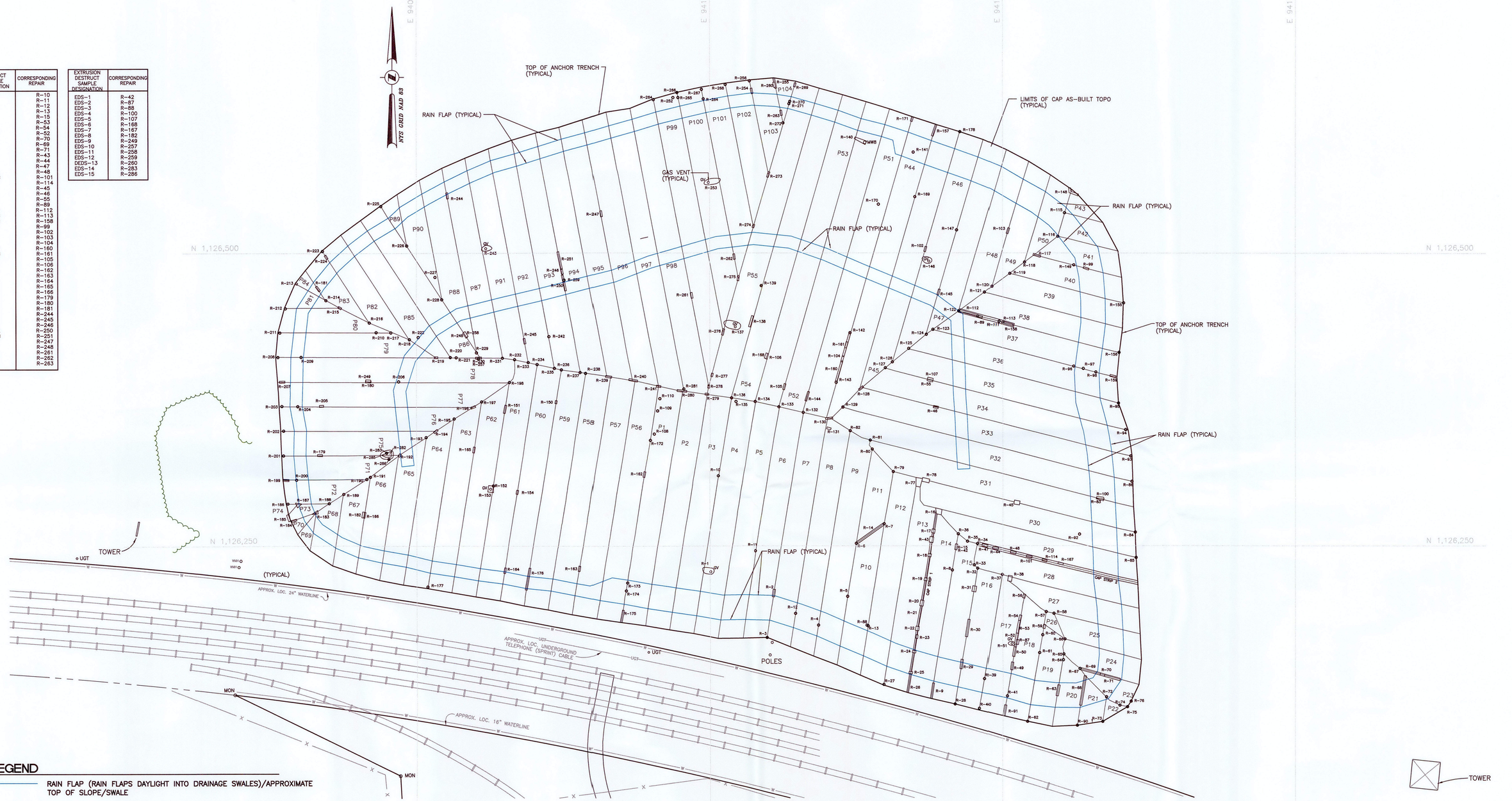
TITLE:
AUGUST/SEPTEMBER 2001 WETLANDS
POST-EXCAVATION SURVEY

DRAWING NO.
5
5 of 9

Plot Scale: 1=1
File Name: None
Date: 09/22/05

DESTRUCT SAMPLE DESIGNATION	CORRESPONDING REPAIR
DS-1	R-10
DS-2	R-11
DS-3	R-12
DS-4	R-13
DS-5	R-15
DS-6	R-53
DS-6A	R-54
DS-6B	R-52
DS-7	R-70
DS-7A	R-69
DS-7B	R-71
DS-8	R-43
DS-9	R-44
DS-9A	R-47
DS-9B	R-48
DS-9BB	R-101
DS-9C	R-114
DS-10	R-45
DS-11	R-46
DS-12	R-55
DS-13	R-89
DS-13A	R-112
DS-13B	R-113
DS-13C	R-158
DS-14	R-99
DS-15	R-102
DS-16	R-103
DS-17	R-104
DS-17A	R-160
DS-17B	R-161
DS-18	R-105
DS-19	R-106
DS-20	R-162
DS-21	R-163
DS-22	R-164
DS-23	R-165
DS-24	R-166
DS-25	R-179
DS-26	R-180
DS-27	R-181
DS-28	R-244
DS-29	R-245
DS-30	R-246
DS-30A	R-250
DS-30B	R-251
DS-31	R-247
DS-32	R-248
DS-33	R-261
DS-34	R-262
DS-35	R-263

EXTRUSION DESTRUCT SAMPLE DESIGNATION	CORRESPONDING REPAIR
EDS-1	R-42
EDS-2	R-87
EDS-3	R-88
EDS-4	R-100
EDS-5	R-107
EDS-6	R-168
EDS-7	R-167
EDS-8	R-182
EDS-9	R-249
EDS-10	R-257
EDS-11	R-258
EDS-12	R-259
DEDS-13	R-260
EDS-14	R-283
EDS-15	R-286



LEGEND

- RAIN FLAP (RAIN FLAPS DAYLIGHT INTO DRAINAGE SWALES)/APPROXIMATE TOP OF SLOPE/SWALE
- WATER LINE
- FENCE LINE
- SURVEY MONUMENT
- MANHOLE
- GAS VENT LOCATION
- GEOMEMBRANE REPAIR LOCATION
- UNDERGROUND TELEPHONE MARKER
- GEOMEMBRANE PANEL DESIGNATION
- PANEL OR REPAIR OVERLAP

BAR SCALE
40 0 20 40 80
1 inch = 40 ft.

TOWER

MAP NOTES

1.) NORTH ORIENTATION BASED ON THE CENTRAL ZONE OF THE NYS PLANE COORDINATE SYSTEM (NAD 83)

2.) ELEVATIONS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)

REFERENCE

ALL DATA PRESENTED ON THIS DRAWING IS TAKEN FROM "RECORD DRAWINGS SYRACUSE CHINA LANDFILL 2000 EXCAVATION SURVEYS", DRAWING NUMBER 05-168 PREPARED BY C.T. MALE ASSOCIATES, P.C. OF SYRACUSE, NEW YORK.

NO.	DATE	REVISION DESCRIPTION	INT.

CHARLES J. MICHELS — STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — NO. 065565
12/06

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PROJECT ENGINEER: MH
DESIGNED BY: MH
DRAWN BY: PJT
CHECKED BY: MH/CJM

PROJECT NO. 57701Y03
FILE NO. 57701099
SCALE: 1" = 60'
DATE: 09/22/05

REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS
209 Shafter Street
Islandia, New York 11749

PROJECT NAME: SYRACUSE CHINA LANDFILL
SYRACUSE, NEW YORK

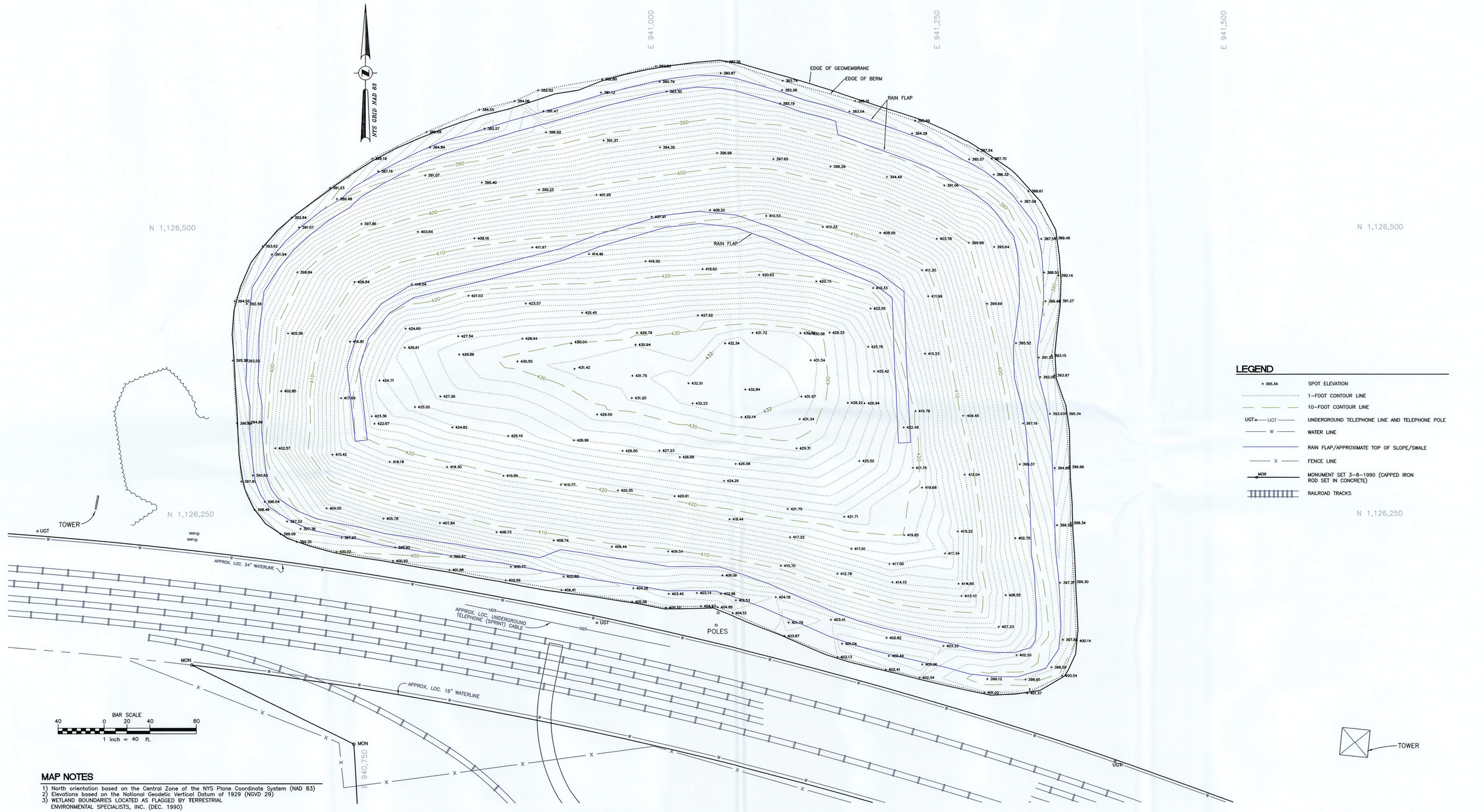
PROJECT FOR: PFALTZGRAFF CO.

TITLE: OCTOBER 2001 GEOMEMBRANE AS-BUILT SURVEY

DRAWING NO. 6

6 of 9

Plot Scale: 1=1 | File Name: None | Date: 09/22/05



LEGEND

- SPOT ELEVATION
- 1-FOOT CONTOUR LINE
- 10-FOOT CONTOUR LINE
- UGT — UGT — UNDERGROUND TELEPHONE LINE AND TELEPHONE POLE
- W — W — WATER LINE
- RAIN FLAP/APPROXIMATE TOP OF SLOPE/SWALE
- X — X — FENCE LINE
- MON — MONUMENT SET 3-8-1990 (CAPPED IRON ROD SET IN CONCRETE)
- RAILROAD TRACKS

MAP NOTES

1) North orientation based on the Central Zone of the NYS Plane Coordinate System (NAD 83)
2) Elevations based on the National Geodetic Vertical Datum of 1929 (NGVD 29)
3) WETLAND BOUNDARIES LOCATED AS FLAGGED BY TERRESTRIAL ENVIRONMENTAL SPECIALISTS, INC. (DEC. 1990)

REFERENCE

ALL DATA PRESENTED ON THIS DRAWING IS TAKEN FROM "RECORD DRAWINGS SYRACUSE CHINA LANDFILL OCTOBER 2001 LANDFILL CAP SAND LAYER SURVEY", DRAWING NUMBER 05-168 PREPARED BY C.T. MALE ASSOCIATES, P.C. OF SYRACUSE, NEW YORK.

Plot Scale: 1=1 Date: 09/23/05 File Name: None

NO.	DATE	REVISION DESCRIPTION	INT.

STATE OF NEW YORK · CHARLES J. McGLYNN · LIC. NO. 065939 · PROFESSIONAL ENGINEER
11/31/06

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PROJECT ENGINEER:	PROJECT NO.
MH	57701Y03
DESIGNED BY:	FILE NO.
MH	577010100
DRAWN BY:	SCALE:
PJT	1" = 40'
CHECKED BY:	DATE:
MH/CJM	09/22/05

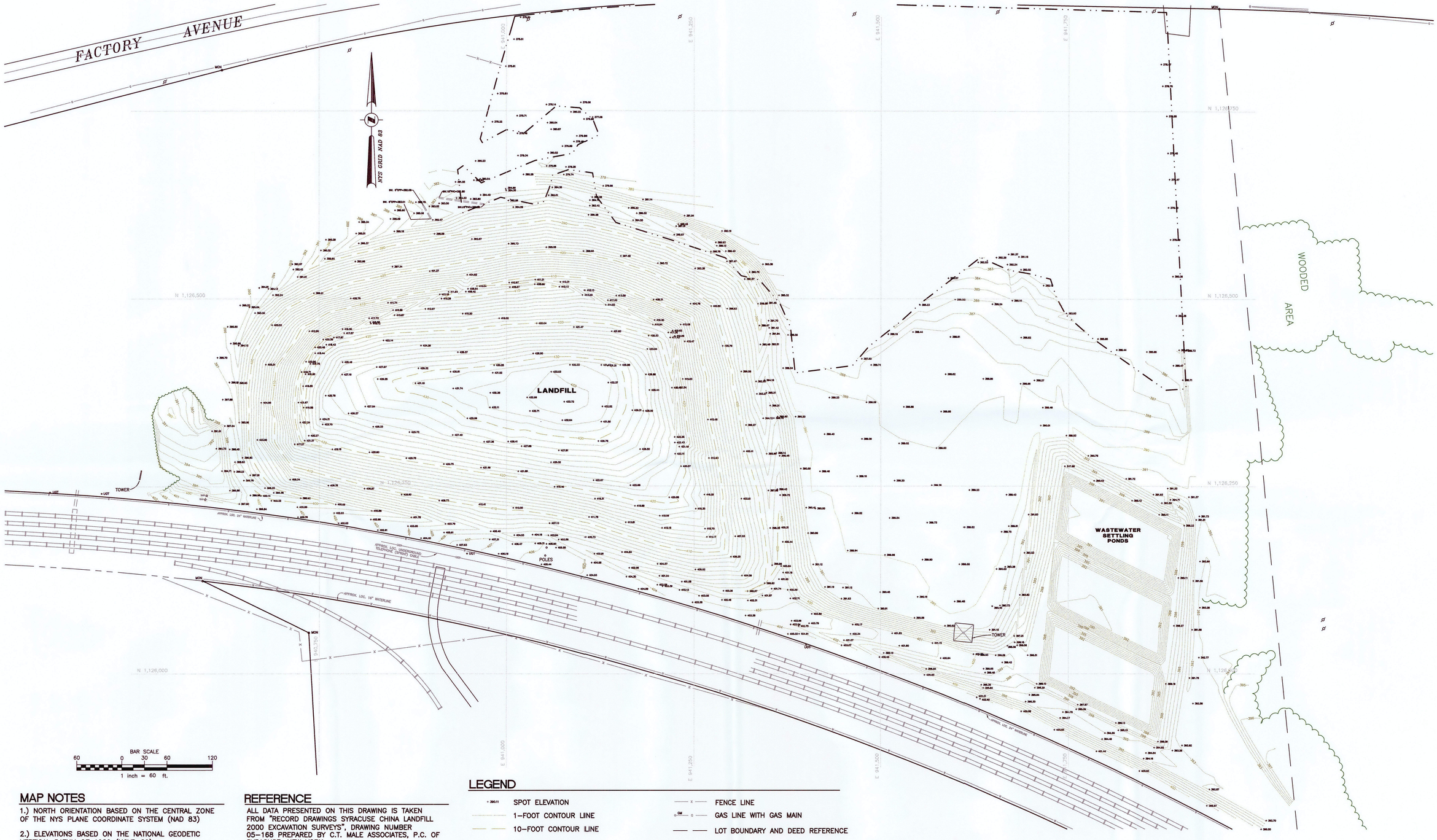
REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS
209 Shafter Street
Islandia, New York 11749

PROJECT NAME: SYRACUSE CHINA LANDFILL
SYRACUSE, NEW YORK

PROJECT FOR: PFALTZGRAFF CO.

TITLE: OCTOBER 2001 LANDFILL CAP SAND LAYER AS-BUILT SURVEY

DRAWING NO. 7



MAP NOTES

1.) NORTH ORIENTATION BASED ON THE CENTRAL ZONE OF THE NYS PLANE COORDINATE SYSTEM (NAD 83)

2.) ELEVATIONS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)

3.) WETLAND BOUNDARIES LOCATED AS FLAGGED BY TERRESTRIAL ENVIRONMENTAL SPECIALISTS, INC. (DEC. 1990)

REFERENCE

ALL DATA PRESENTED ON THIS DRAWING IS TAKEN FROM "RECORD DRAWINGS SYRACUSE CHINA LANDFILL 2000 EXCAVATION SURVEYS", DRAWING NUMBER 05-168 PREPARED BY C.T. MALE ASSOCIATES, P.C. OF SYRACUSE, NEW YORK.

LEGEND

- SPOT ELEVATION
- 1-FOOT CONTOUR LINE
- 10-FOOT CONTOUR LINE
- WETLAND BOUNDARY
- RAILROAD TRACKS
- MONUMENT SET 3-B-1990 (CAPPED IRON ROD SET IN CONCRETE)
- FENCE LINE
- GAS LINE WITH GAS MAIN
- LOT BOUNDARY AND DEED REFERENCE
- WATER LINE
- UNDERGROUND TELEPHONE LINE AND TELEPHONE POLE

NO.	DATE	REVISION DESCRIPTION	INT.

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STATE OF NEW YORK · CHARLES J. McGUCH · 075161 · LICENSED PROFESSIONAL ENGINEER
Charles J. McGuch 1/31/06

PROJECT ENGINEER: MH
DESIGNED BY: MH
DRAWN BY: PJT
CHECKED BY: MH/CJM

PROJECT NO. 57701Y03
FILE NO. 577010101
SCALE: 1" = 60'
DATE: 09/22/05

REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS
209 Shafter Street
Islandia, New York 11749

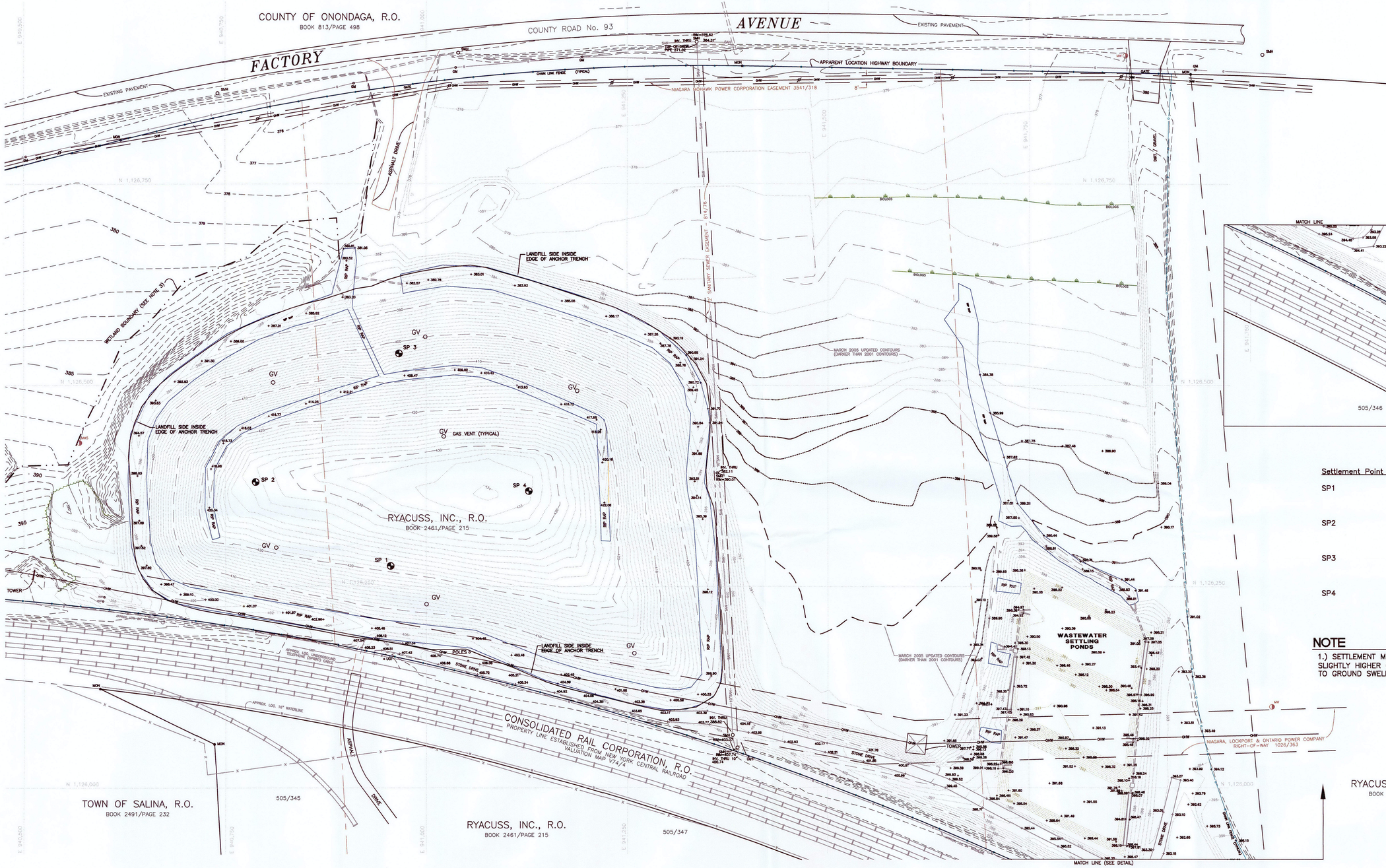
PROJECT NAME:
SYRACUSE CHINA LANDFILL
SYRACUSE, NEW YORK

PROJECT FOR:
PFALTZGRAFF CO.

TITLE:
NOVEMBER/DECEMBER 2001
COMMON FILL AS-BUILT SURVEY

DRAWING NO. 8

Date: 09/22/05 File Name: None
Plot Scale: 1=1



Settlement Point	Date	Elevation
SP1	03/31/05	421.79
	04/26/05	421.82
	05/25/05	421.81
SP2	03/31/05	428.54
	04/26/05	428.57
	05/25/05	428.55
SP3	03/31/05	404.65
	04/26/05	404.69
	05/25/05	404.68
SP4	03/31/05	433.79
	04/26/05	433.80
	05/25/05	433.83

NOTE

1.) SETTLEMENT MONITORING POINTS WERE SURVEYED SLIGHTLY HIGHER ON 4/26/05. THIS WAS ATTRIBUTED TO GROUND SWELLING AS A RESULT OF HEAVY RAIN.

MAP NOTES

1.) NORTH ORIENTATION BASED ON THE CENTRAL ZONE OF THE NYS PLANE COORDINATE SYSTEM (NAD 83)

2.) ELEVATIONS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)

3.) WETLAND BOUNDARIES LOCATED AS FLAGGED BY TERRESTRIAL ENVIRONMENTAL SPECIALISTS, INC. (DEC. 1990)

REFERENCE

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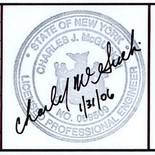
LEGEND

- 1-FOOT CONTOUR LINE
- 1-FOOT CONTOUR LINE (UPDATED MARCH 2005)
- 10-FOOR CONTOUR LINE (UPDATED MARCH 2005)
- EXISTING 1-FOOT CONTOUR LINE (NOT AFFECTED BY REMEDIATION)
- SPOT ELEVATION
- MARCH 2005 SETTLEMENT STUDY POINT
- MONITORING WELL LOCATION
- RAILROAD TRACKS
- UNDERGROUND TELEPHONE LINE AND POLE
- LIMIT OF RIP RAP
- WATER LINE
- FENCE LINE
- MONUMENT SET 3-8-1990 (CAPPED IRON ROD SET IN CONCRETE)
- GAS VENT
- LOT BOUNDARY AND DEED REFERENCE
- GAS LINE WITH GAS MAIN
- BIOLOGS
- UTILITY POLE WITH OVERHEAD WIRES

BAR SCALE
60 0 30 60 120
1 inch = 60 ft.

NO.	DATE	REVISION DESCRIPTION	INT.

Plot Scale: 1=1 | Date: 09/22/05 | File Name: Non



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PROJECT ENGINEER: MH
DESIGNED BY: MH
DRAWN BY: PJT
CHECKED BY: MH/CJM

PROJECT NO. 57701Y03
FILE NO. 577010103
SCALE: 1" = 60'
DATE: 09/22/05

REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS
209 Shafter Street
Islandia, New York 11749

PROJECT NAME: SYRACUSE CHINA LANDFILL
SYRACUSE, NEW YORK

PROJECT FOR: PFALTZGRAFF CO.

TITLE: NOVEMBER/DECEMBER 2001, MARCH 2005 TOPSOIL AS-BUILT SURVEY

DRAWING NO. 9