



**Post-Remediation Groundwater  
Monitoring Report  
Tishcon Corporation  
125 State Street  
Westbury, New York**

**October 1999**

**Prepared for:**

**Tishcon Corporation  
30 New York Avenue  
Westbury, New York 11590**

**Prepared by:**

**CA RICH CONSULTANTS, INC.  
404 Glen Cove Avenue  
Sea Cliff, New York 11579**



**CA RICH CONSULTANTS, INC.**

CERTIFIED GROUND-WATER AND  
ENVIRONMENTAL SPECIALISTS

October 11, 1999

**NYSDEC**

Division of Hazardous Waste Remediation  
50 Wolf Road  
Albany, New York 10591-5805

Attention: Jeffrey Trad, P.E.

Re: Post-Remediation Ground Water Monitoring Report  
Wells UN-11 and NC-13  
Tishcon Corporation, Site No.: 130043C  
125 State Street, Westbury, NY  
Agreement Index No.: W1-0757-95-05

Dear Mr. Trad:

Attached to this report are the results of groundwater samples collected by CA Rich Consultants, Inc. (CA RICH) for the above-referenced site on September 28, 1999 and historic data supplied to us by the NYSDEC (Ref. 1). A comparison of the data indicates that the contaminants of concern --1,1,1-trichloroethane and its degradation product 1,1-dichloroethane, -- have remained relatively the same at the downgradient monitoring well UN-11. Chloroethane, the final degradation product, remained undetected.

**Background**

A Remedial Investigation (R.I) of this Facility was performed during the summer of 1996. The contaminant of concern identified during the R.I. was 1,1,1-Trichloroethane (TCA). A summary of this investigation is presented in our Remedial Investigation Report (Ref. 2). The cleanup of the storm drains and distribution box occurred under two separate work plans. The cleanup of storm drains 2, 4 and distribution box 5 occurred on October 28, 1997 and is described in the Interim Remedial Measure (Ref. 3). The cleanup of storm drain 1, was conducted on May 11th and 12th, 1998 as part of the Remedial Action (Ref. 4).

**Groundwater Monitoring**

On September 28, 1999, CA RICH collected two groundwater samples as described in the Post Remediation Groundwater Monitoring Plan (Ref. 5). With the assistance of the Westbury Water District and the NYSDEC, CA RICH located and sampled monitoring wells NC-13 and UN-11. The wells are used as the upgradient and downgradient groundwater monitoring wells for the 125 State Street facility.

Once each well was located, water level and total depth measurements were taken and the total volume of groundwater in the water columns were calculated. A quantity of three casing volumes of groundwater were then removed from each well using a precleaned submersible pump. After purging, a pre-cleaned, disposable bailer was slowly lowered into the well to collect the groundwater samples for laboratory analysis.

## CA RICH CONSULTANTS, INC.

---

The groundwater samples were placed into laboratory issued bottles and stored in an ice-filled cooler and delivered under a Chain-of-Custody documentation to an ELAP-Certified laboratory and analyzed using EPA Method 8010. Trip blanks, field blanks, duplicates and matrix spikes are not performed as stated in the Post Remediation Groundwater Monitoring Plan.

### Laboratory Results

Attached to this report are tables and graphs for the upgradient and downgradient monitoring wells for the State Street Facility, NC-13 and UN-11 respectively. Historical laboratory data from September 29, 1995, August 22, 1996, June 25, 1998, September 17, 1998, December 15, 1998, and March 19, 1999 were used together with the most recent round of sampling collected on September 28, 1999, for the downgradient well UN-11. For the upgradient monitoring well NC-13, the historical data available was from September 29, 1995, June 25, 1998, September 17, 1998, December 15, 1998, and March 19, 1999. The groundwater from this well did not reveal volatile organic compounds in the groundwater. Laboratory results for the downgradient monitoring well, UN-11, indicate that the concentrations of TCA and its degradation by-product 1,1-dichloroethane have reached an asymptotic condition. An asymptotic condition shall be defined as two or more consecutive downgradient concentrations with a net change of 10 percent or less of the starting concentrations of TCA and its degradation products, as based on the September 29, 1995 laboratory data.

The starting concentrations of TCA and 1,1-dichloroethane were 91 ug/L and 12 ug/L, respectively. Therefore a change of less than 9.1 ug/L of TCA and less than 1.2 ug/L of 1,1-dichloroethane for two quarters would achieve an asymptotic condition, as described in the Post Remediation Groundwater Monitoring Plan (Ref. 5). The net change for TCA for the last three quarters was 6 ug/L, 7 ug/L, and 0 ug/L, respectively. The net change for 1,1-dichloroethane for the last three quarters was 2 ug/L, 0 ug/L, and 0 ug/L, respectively. The by-product of 1,1-dichloroethane, chloroethane, was not detected in any of the sampling events.

If there are any questions regarding this Letter Report, please do not hesitate to call our office.

Sincerely,

CA Rich Consultants, Inc.



Eric A. Weinstock  
Associate



Stephen Malinowski  
Project Scientist

---

## Tables

**REFERENCES**

1. NYSDEC, (1996), Multisite PSA Report, New Cassel Industrial Area, North Hempstead, Nassau County
2. CA RICH, (1996), Focused Remedial Investigation Report, Tishcon Corp., 125 State Street, Westbury, NY
3. CA RICH, 1998, Interim Remedial Measures Final Report, Tishcon Corp., 125 State Street, Westbury, NY
4. CA RICH, (report in progress), Remedial Action Report, Tishcon Corp., 125 State Street, Westbury, NY
5. CA RICH, (1997), Post Remediation Groundwater Monitoring Plan, Tishcon Corp., 125 State Street, Westbury, NY

C:\1-stm-99\projects\tishcon\gwm\gwm1099.doc

**Tishcon Corporation  
State Street Facility**

Sample ID Date Sampled Volatile Organics	NC-13 09/29/95	NC-13 06/25/98	NC-13 09/17/98	NC-13 12/15/98	NC-13 03/19/99	NC-13 09/28/99	NYSDEC TOGS*
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Vinyl Chloride	ND	ND	ND	ND	ND	ND	2
Chloroethane	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	5
Trichloroethene	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	ND	ND	ND	ND	ND	ND	5

**Notes:**

ug/L: micrograms per liter (parts per billion).

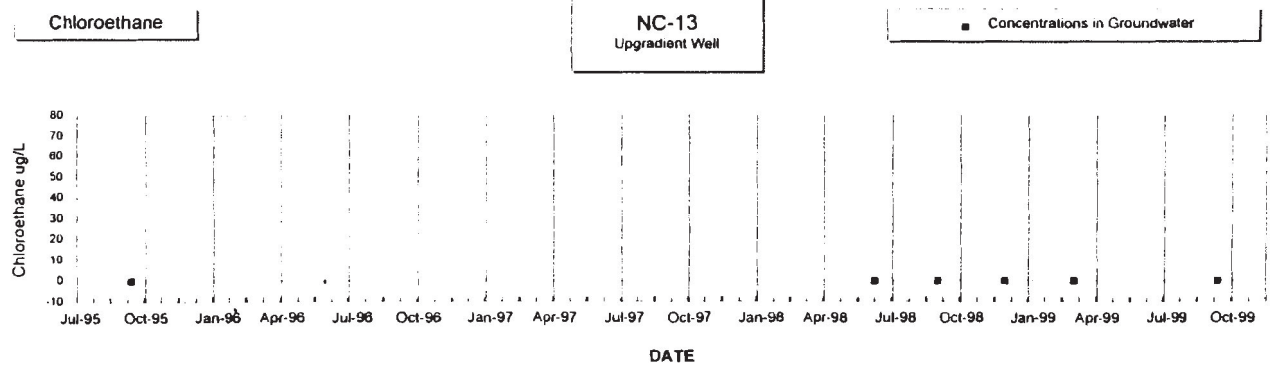
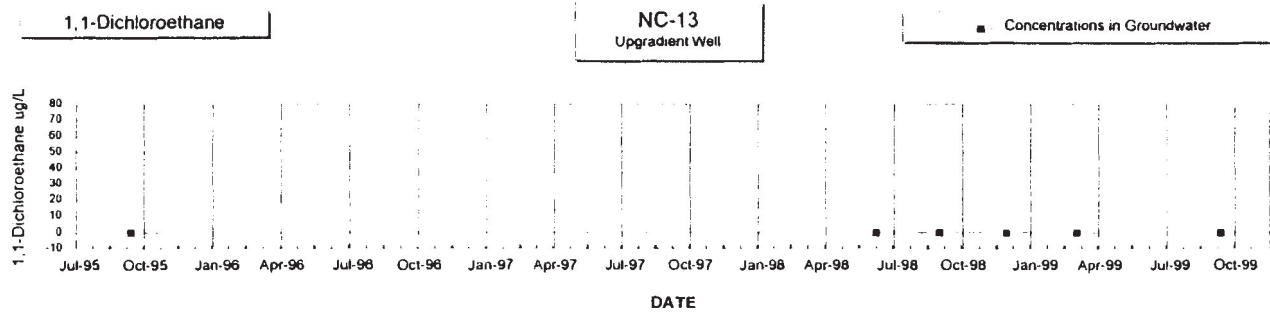
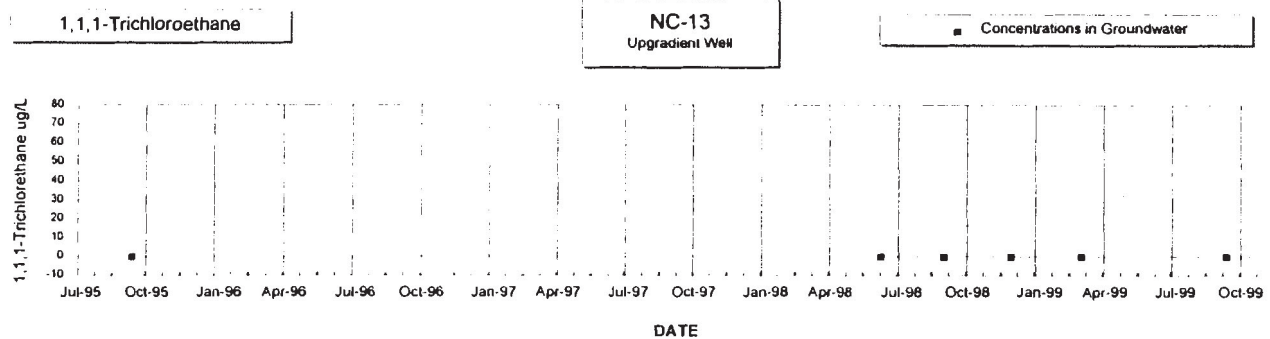
J: number represents estimated concentration  
(below reportable limits)

ND: compound not detected above laboratory detection limit

or detection limit not provided Values plotted as zero (0) on graph C:\1-stm-99\projects\tishcon\gwm\nc-13 ws4

\* NYSDEC Technical and Operational Guidance Series (1.1.1)

Ambient Water Quality Standards and Guidance Values; 10-22-93



**Tishcon Corporation  
State Street Facility**

Sample ID Date Sampled Volatile Organics	UN-11 09/29/95	UN-11 08/22/96	UN-11 06/25/98	UN-11 09/17/98	UN-11 12/15/98	UN-11 03/19/99	UN-11 09/28/99	NYSDEC TOGS*
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	2
Chloroethane	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethene	1 J	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	91	60	20	22	16	9	18	5
Trichloroethene	5 J	3 J	2	3	ND	2	2	5
1,1-Dichloroethane	12	10	3	5	3	3	3	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	91	64	46	50	35	36	37	5
<i>Total VOC's</i>		<i>137</i>	<i>71</i>	<i>80</i>	<i>54</i>	<i>50</i>	<i>66</i>	

Notes:

ug/L: micrograms per liter (parts per billion).

J: number represents estimated concentration

(below reportable limits)

ND: compound not detected above laboratory detection limit  
or detection limit not provided. Values plotted as zero (0) on graph.

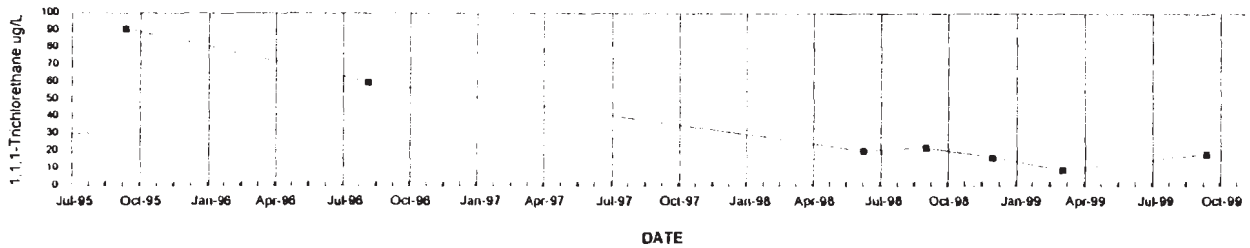
\* NYSDEC Technical and Operational Guidance Series (1.1.1)  
Ambient Water Quality Standards and Guidance Values; 10-22-93

C:\11-STA-98\Project\Tishcon\GWA\UN-11 V&4

**1,1,1-Trichloroethane**

UN-11  
Downgradient Well

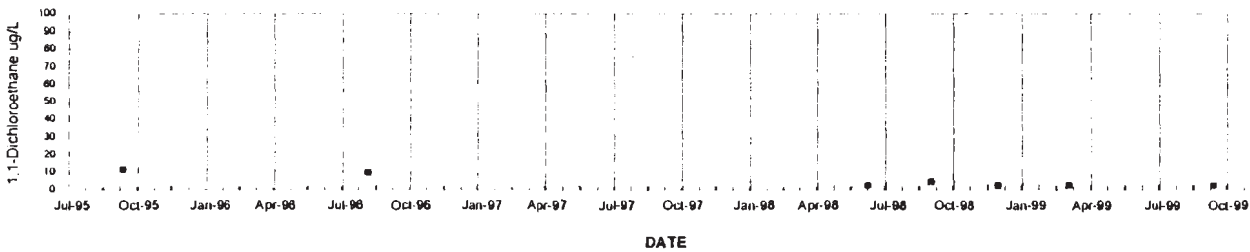
Concentrations in Groundwater



**1,1-Dichloroethane**

UN-11  
Downgradient Well

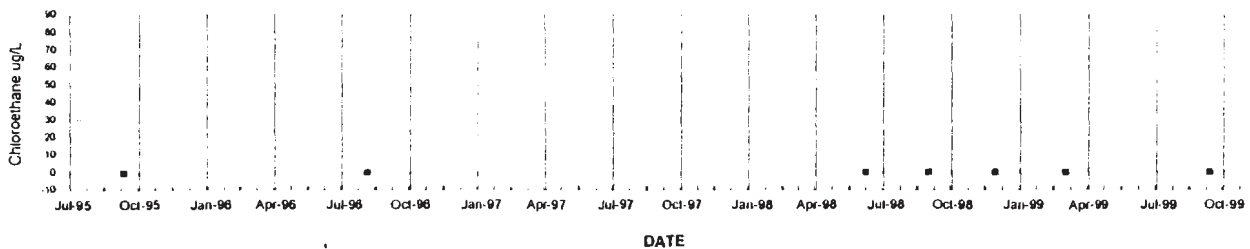
Concentrations in Groundwater

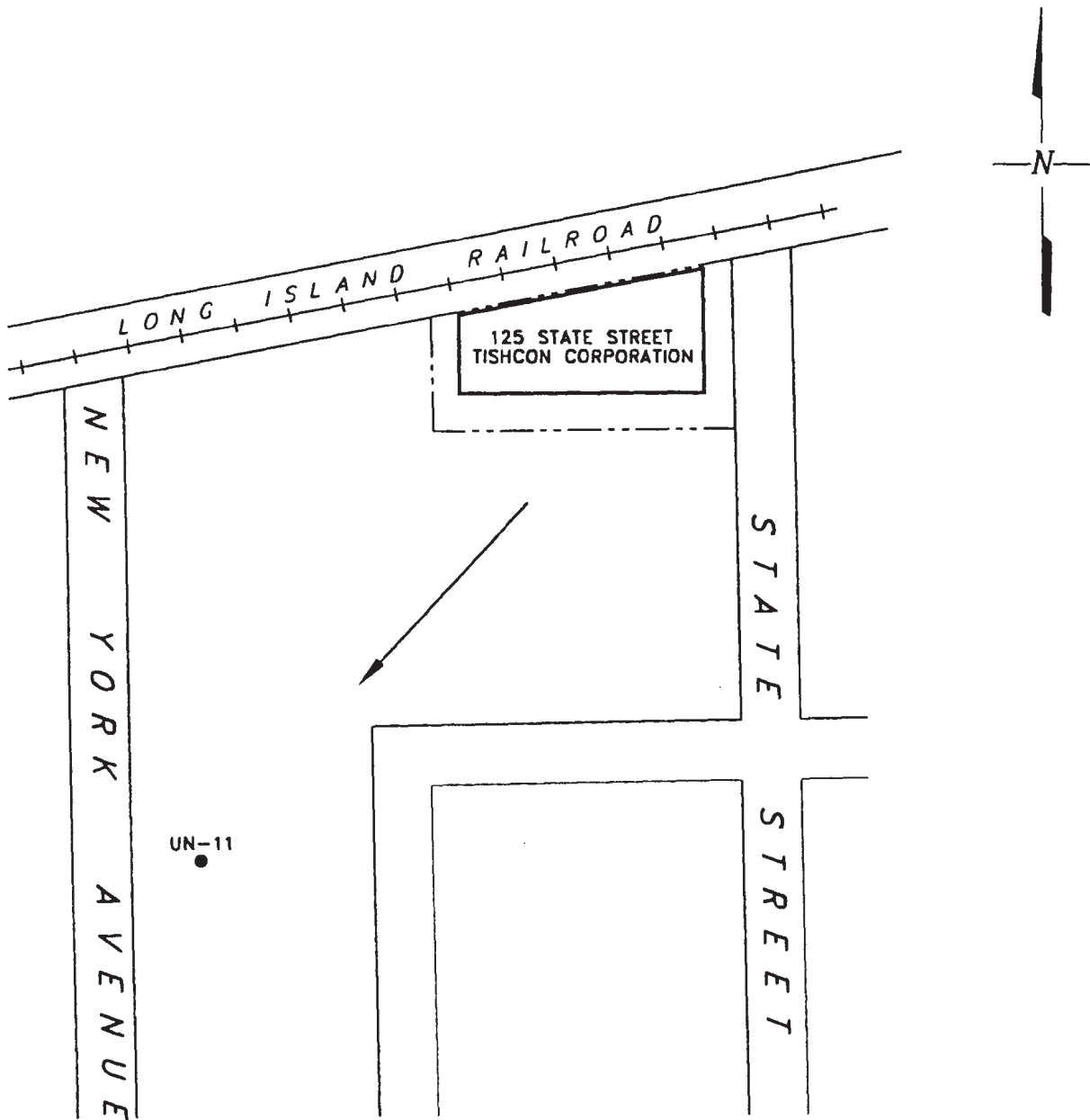


**Chloroethane**

UN-11  
Downgradient Well

Concentrations in Groundwater





0 60 150 300

Scale in Feet

LEGEND

● MONITORING WELL SAMPLES

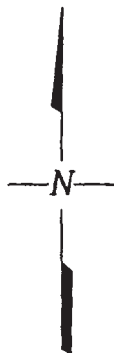
PRESUMED DIRECTION OF GROUNDWATER FLOW

**CA RICH CONSULTANTS, INC.**
 Certified Ground-Water and Environmental Specialists  
 404 Glen Cove Avenue, Sea Cliff, NY 11579

TITLE: TISHCON CORPORATION POST-REMEDIATION GROUNDWATER SAMPLING LOCATIONS		DATE: 10/02/98
FIGURE: 1	TISHCON CORPORATION 125 STATE STREET WESTBURY, NEW YORK	SCALE: AS SHOWN
DRAWING NO: 3237-01C		DRAWN BY: S.T.M.
		APPR. BY: E.A.W.

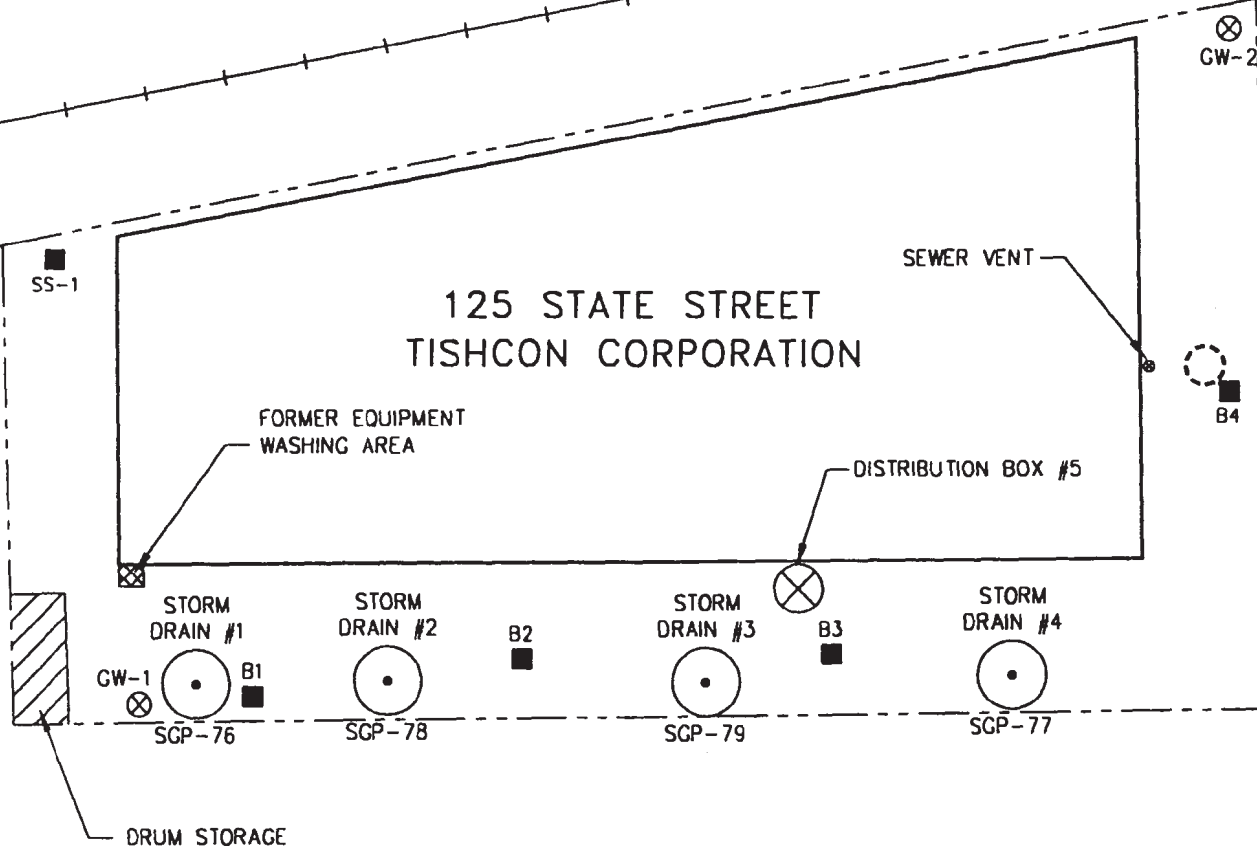


## Figures



LONG ISLAND RAILROAD

STATE STREET



### LEGEND



APPROXIMATE LOCATION OF  
STORM DRAIN



GEOPROBE GROUNDWATER SAMPLE  
LOCATION



APPROXIMATE LOCATION OF  
SOIL BORING



FORMER CESSPOOL

SGP-76 •

APPROXIMATE LOCATION OF  
NYSDEC SAMPLES

0 20 40 60 80

Scale in Feet

### CA RICH CONSULTANTS, INC.

Certified Ground-Water and Environmental Specialists  
404 Glen Cove Avenue, Sea Cliff, NY 11579

TITLE

TISHCON CORPORATION  
SOIL BORING LOCATIONS

DATE

7/23/98

SCALE

AS SHOWN

FIGURE

2

DRAWING NO.

3237-01A

TISHCON CORPORATION  
125 STATE STREET  
WESTBURY, NEW YORK

DRAWN BY:

C.G.

APPR BY:

E.A.W.

## **Laboratory Results**

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.994201.01

10/01/99

C.A. Rich Consultants, Incorporated

17 Dupont Street

Plainview, NY 11803

ATTN: Stephen Malinowski

SOURCE OF SAMPLE: Tishcon State Street

COLLECTED BY: Client

DATE COL'D:09/28/99 RECEIVED:09/28/99

SAMPLE: Water sample, NC-13, 1135

## ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlordifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	<1
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c-1,3Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

## ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2

cc:

REMARKS:

DIRECTOR 

## CHAIN OF CUSTODY RECORD

[illegible]

Job No.:

TOTAL		REMARKS-TESTS REQUIRED, SPECIAL TURNAROUND, SPECIAL Q.C. etc

REMARKS-TESTS REQUIRED, SPECIAL TURNAROUND, SPECIAL Q.C. etc	
TOTAL	

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

Representing: <i>[Signature]</i>	Representing:	YES	NO	NA	Representing:
Received by: <i>[Signature]</i>	Relinquished by: <i>(Signature)</i>	DATE/TIME	SEAL INTACT?		Received by: <i>(Signature)</i>

Representing:	Representing:	YES	NO	NA	Representing:

Relinquished by: (Signature)	DATE/TIME	SEAL INTACT ?	Received by: (Signature)
Representing:		YES NO NA	Representing:

Relinquished by: (Signature)	DATE/TIME	SEAL INTACT ?	Received by: (Signature)
Representing:		YES NO NA	Representing:

--

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.994201.02

10/01/99

C.A. Rich Consultants, Incorporated  
17 Dupont Street  
Plainview, NY 11803

ATTN: Stephen Malinowski

SOURCE OF SAMPLE: Tishcon State Street

COLLECTED BY: Client

DATE COL'D:09/28/99 RECEIVED:09/28/99

SAMPLE: Water sample, UN-11, 1315

## ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
1,1 Dichloroethene	ug/L	<1
1,1 Dichloroethane	ug/L	3
1,2 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
1,2 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	18
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
1,2 Dichloropropane	ug/L	<1
t-1,3Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	2
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c-1,3Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	37

## ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
1,3 Dichlorobenzene	ug/L	<2
1,2 Dichlorobenzene	ug/L	<2
1,4 Dichlorobenzene	ug/L	<2

cc:

REMARKS:

DIRECTOR

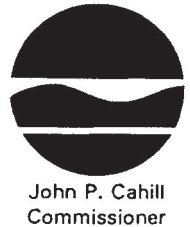
rn=

24778

NYSDOH ID# 10320

FILE

New York State Department of Environmental Conservation  
Division of Environmental Remediation  
Bureau of Construction Services, Room 267  
50 Wolf Road, Albany, New York 12233-7010  
Phone: (518) 457-9280 FAX: (518) 457-7743



APR 13 1999

Mr. Robert Weitzman, P.E.  
Public Health Engineer  
County of Nassau Department of Health  
Bureau of Environmental Engineering  
240 Old Country Road  
Mineola, New York 11501-4250

Dear Mr. Weitzman:

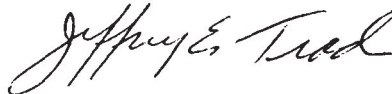
Re: Site No. 1-30-043C  
Tishcon Corporation @ 125 State Street

In accordance with our conversation on April 9, 1999, please find enclosed the most recent data from the January 1999 Post Remediation Groundwater Monitoring Report. As indicated on the Tables for Well UN-11, contaminant concentrations have steadily declined since the removal of the source areas during the IRM in October 1997 and the Remedial Action in May 1998.

Based on the more recent data and that the Remedial Action was performed in conformance with the Record of Decision, the site is being reclassified to a class 4 site. A class 4 site requires continued monitoring.

If you have any further concerns regarding this site, please call me at (518) 457-9285.

Sincerely,



Jeffrey E. Trad, P.E.  
Project Manager  
Eastern Field Services Section  
Bureau of Construction Services  
Division of Environmental Remediation

Enclosure

JET/mj

bcc: w/o Enc. R. Knizek  
R. Marino  
C. Vasudevan  
J. Trad  
Dayfile

Trad #1 a:\tishcon ltr.wpd