

TECHNICAL REPORT
TO BOVANO INDUSTRIES
ON GROUND WATER INVESTIGATIONS

Passed

7/13/84



**Environmental
Consultants, Inc.**

Frederick W. Johnson; Project Manager
Glenn Daukas; Assistant Geologist
TRC Project No. 2661-N51
July 13, 1984

**800 Connecticut Blvd.
East Hartford, CT 06108
(203) 289-8631**

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1.0 INTRODUCTION

In response to a stipulation by the Superior Court, Judicial District of Hartford on May 22, 1984, Bovano Industries was required to install two monitoring wells at their facility located at 830 South Main Street, Cheshire, Connecticut.

The location of the wells (Figures 1 and 1a) were specified by the Court and were required as a result of a legal order of abatement, issued on April 30, 1982, from the Connecticut Department of Environmental Protection. The order was a result of suspect contribution to contamination of the ground water of the state from a copper sludge basin operated by Bovano, and from spillage of trichloroethylene used in a manufacturing process at Bovano.

On May 25, 1984, TRC, under contract with Bovano Industries, directed the installation of the wells using the services of Connecticut Test Borings, Inc. of Seymour, Connecticut.

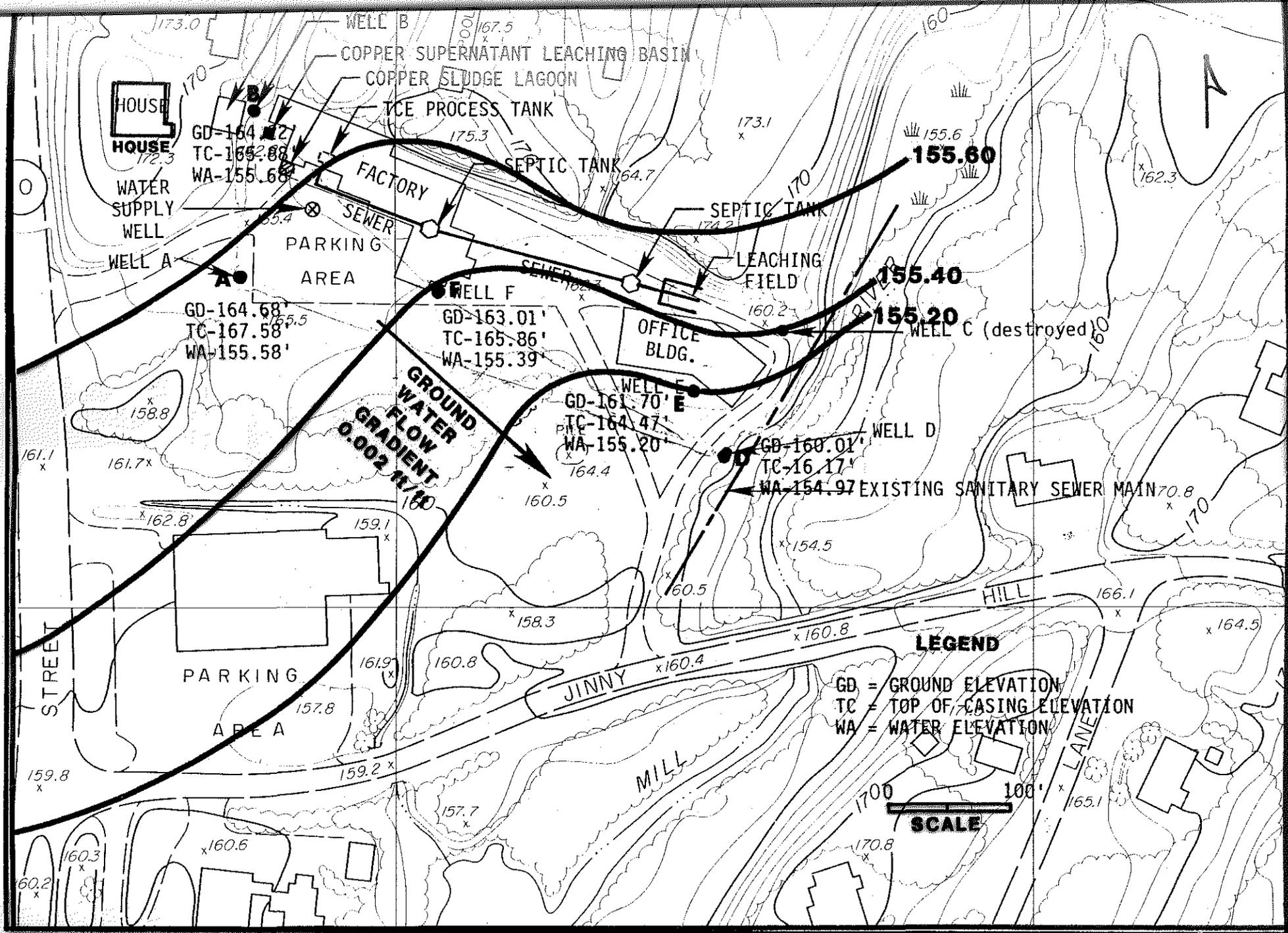


Figure 1a. Site Elevations - Bovano Industries, Cheshire, Connecticut.

2.0 WELL INSTALLATION

Under the supervision of a TRC geologist, the wells were installed using a truck mounted auger rig equipped with a four-inch inside diameter hollow stem auger. Split spoon samples were collected at five foot intervals and logged by the TRC geologist which are presented by Connecticut Test Borings, Inc. (Appendix 1). The location of the two monitoring wells are at the southeast corner of the factory, Well F, and the center of the south face of the office building, Well E (Figures 1 and 1a). Well construction consists of 2" PVC solid well riser with 15' of perforated well screen in Well E and 25' of screen in Well F. The screen was covered with filter fabric to prevent infiltration of suspended solids. A bentonite seal was placed at a depth of approximately one foot above the top of the well screen and a locking protective steel casing was cemented into place at the ground surface creating an impervious seal (Appendix 2). Four backhoe dug wells had previously been installed on September 21, 1982 by TRC with Bovano's equipment and operator. Between that date and May 25, 1984 monitoring Well C (Figure 1) was destroyed by snow removal operations.

3.0 GROUND WATER SAMPLING

Ground Water samples were collected on June 19, 1984 and analyzed on June 20, 1984 by the South Central Connecticut Regional Water Authority, New Haven, Connecticut. The results are listed in Appendix 3. On July 3, 1984 ground surface, top of casing and water table elevations were determined by TRC with the help of a Bovano employee (See Figure 1a).

4.0 DISCUSSION

The results of the elevation survey shows ground water flow to be in a southeasterly direction with a flow gradient of 0.002 ft/ft (See Figure 1A). Of the five wells sampled, monitoring Wells A and B showed trichloroethylene (TCE) levels of 50 ppb and 34 ppb respectively, which are above the Connecticut Department of Health level of 25 ppb for potable water. TCE was not detected in monitoring Wells D, E, and F. (Appendix 3).

In September of 1982 TRC conducted a sampling round of the existing backhoe wells. A comparison of the results of this sampling round and the June 1984 round show that trichloroethylene levels in Wells B and D have dropped significantly. During the 1982 sampling round Well A was only analyzed for copper, therefore no comparison can be made.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the results of this technical evaluation and TRC's September 1982 report to Bovano TRC feels that Bovano has satisfied the requirements of the May 22, 1984 Stipulated Judgement (Appendix 4) from the Connecticut Department of Environmental Protection. Specifically, the items outlined in the Stipulated Judgement have been addressed as follows:

ITEM 1: The two additional wells have been installed as detailed in this report.

ITEM 2: TRC's September 1982 report to Bovano identified soil and ground water contamination at the Bovano property. The recent analysis of ground water from existing, and the two new ground water monitoring wells have further defined the extent of contamination.

TRC's September 1982 report also recommended best management practices to eliminate any potential source of ground water contamination.

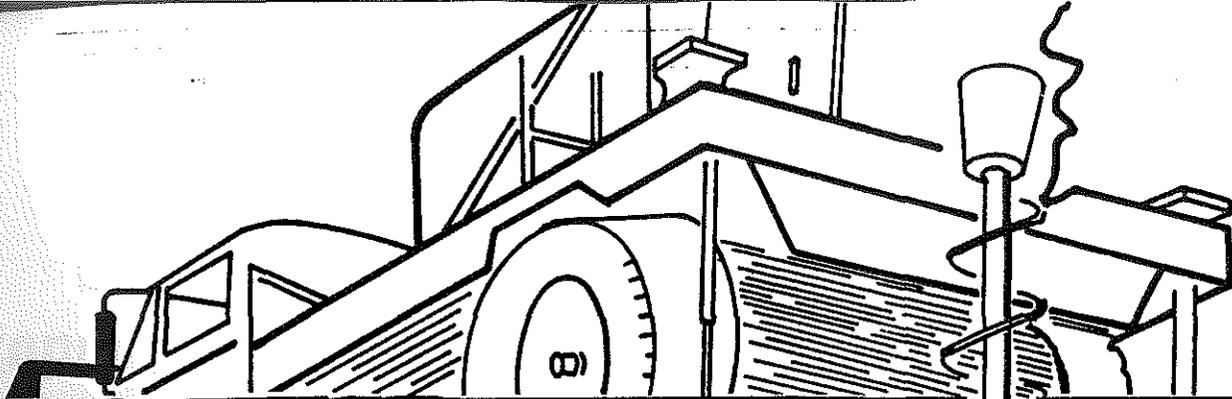
ITEM 3: Bovano Industries has implemented, or is in the process of implementing the best management practices specified in TRC's September 1982 report. This included the elimination of the use and storage of trichlorinated solvents, and elimination of the copper sludge storage sump. A permit is pending with the Town of Cheshire for Bovano to dispose of all this waste to the municipal sanitary sewer. The only outstanding best management practice not implemented by Bovano to date is the upgrading of the chemical storage area with an impervious floor and spill containment berm.

The recent ground water analysis has shown levels of trichlorinated solvents only slightly above state drinking water standards in two wells on site. Based on this data, and the fact that all use and storage of such compounds has stopped. TRC does not feel that any ground water remediation is necessary.

ITEMS 4 & 5: These items simply outline schedules for implementation of the above items.

In conclusion, TRC feels upon completion the upgrading of the chemical storage area, and connection to the municipal sanitary sewer system that Bovano Industries will be in compliance with the Connecticut DEP's May 22, 1984 Stipulated Judgement.

APPENDIX 1



Connecticut Test Borings, Inc.

SUB-SURFACE SPECIALISTS P.O. BOX 69. SEYMOUR, CONN.

SERVING: Connecticut, Massachusetts, Rhode Island, Vermont
Maine, New Hampshire, New York, New Jersey, Pennsylvania

INTEGRITY

EXPERIENCE

Client TRC Environmental Consultants, Inc.

Project Bovano

Location Cheshire, Conn.

Architect _____

Engineer _____

Owner M.K.

Owner Assistant M.M.

Soil samples and/or rock core samples delivered
on request.

Hollow Stem Auger Borings

Dry Sample Borings

Piston Samples

Rock Coring

Shelby Tubes

Piezometers

Well Points

Mineral Exploration

Seismic Surveys

Shallow Caissons

Engineering Reports





Seymour 888-3857 •

SUB-SURFACE SPECIALISTS • P. O. BOX 69, SEYMOUR, CONN.

SERVING: Connecticut, Massachusetts, Rhode Island, Vermont,
Maine, New Hampshire, New York, New Jersey, Pennsylvania

Connecticut Test Borings, Inc.

SOILS CORRELATION CHART

PENETRATION RESISTANCE & SOIL PROPERTIES

Predominant sand and gravel		Predominant silt and clay		
COHESIONLESS	SOILS	COHESIVE	SOILS	COMPRESSIVE
Blows per foot	Relative Density	Blows per foot	Consistency	Strength (qu*)
0 to 4	very loose	0 to 2	very soft	below .25
4 to 10	loose	2 to 4	soft	.25 to .50
10 to 30	medium	4 to 8	medium	.50 to 1.0
30 to 50	dense	8 to 15	stiff	1 to 2
over 50	very dense	15 to 30	very stiff	2 to 4
		over 30	hard	over 4

NOTES:

Above based on 2" O.D. sampler x 1-3/8" i.d. 140 Wt. x 30" Fall (qu*) =
Tons per square Foot

STATE OF CONNECTICUT BASIC BUILDING CODE

TABLE 15. PRESUMPTIVE SURFACE BEARING VALUES OF FOUNDATION MATERIALS

CLASS OF MATERIAL	Tons per Square Foot
Massive crystalline bed rock including granite, diorite, gneiss, trap rock hard limestone and dolomite.	100
Foliated rock including bedded limestone, schist and slate in sound condition.	40
Sedimentary rock including hardshales, sandstones, and thoroughly cemented conglomerates.	25
Soft or broken bed rock (excluding shale) and soft limestone.	10
Compacted, partially cemented gravels, sand and hardpan overlying rock.	10
Gravel and sand-gravel mixtures.	6
Loose gravel, hard dry clay, compact coarse sand, and soft shales.	4
Loose, coarse sand and sand-gravel mixtures and compact fine sand (confined).	3
Loose medium sand (confined), stiff clay.	2
Soft broken shale, soft clay.	1.5

DATE START 5-29-84
 DATE FINISH 5-29-84
 WEIGHT OF HAMMER 140 300
 SAMPLER FALL 30" 22"
 GROUND WATER OBSERVATIONS
 DATE 5-29-84 TIME 0 hrs. DEPTH 5'
 SAMPLER O.D. 2" I.D. 1 3/8"
 TYPE OF RIG Hydraulic Rotary

CONNECTICUT TEST BORINGS, INC.

Sub-Surface Specialists

P.O. BOX 69
 SEYMOUR, CONNECTICUT
 (203) 888-3857

PROJ. NO.
 LOCATION Cheshire, Conn.
 LINE & STA. (Dovano)
 OFFSET
 GROUND ELEVATION
 HOLE NO. MW-E
 CASING SAMPLER CORE BARREL
 TYPE HSA SS
 SIZE I.D. 3 1/2" 1 3/8"

ESPECIALLY COMPILED FOR
 TRC Environmental Consultants, Inc.
 800 Connecticut Boulevard
 East Hartford, Conn. 06108

DEPTH BELOW SURFACE	SAMPLE NO. DEPTHS ELEV. FT.	Type of Sample	BLOWS PER 6" ON SAMPLER			DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOILS REMARKS	SAMPLE		
			From		TO				NO.	PEN	REC.
			0-6	6-12	12-18						
							4"	Traprock fill.			
	5' to 6'6"	SS	25	50	60	V. Dense wet	5'6"	Red br. f-c sand, some f-c gravel, lit. silt, lit. cobbles.	1	18	8
							9'	Red br. f-c sand and f-c gravel, some cobbles, lit. silt.			
10	10' to 11'6"	SS	9	11	15	M. Comp wet		Red br. f-c sand, lit. f-c gravel, tr. silt, tr. cobbles.	2	18	10
	15' to 16'6"	SS	9	11	6	M. Comp wet		Same	3	18	6
20	20' to 20'5"	SS	50/5"			V. Dense wet	20'6"		4	5	5
							21'	Red br. silt, some f-c sand, lit. clay, lit. f-c gravel.			
								Refusal on HSA on rock or boulder.			
								Bottom of boring 21'.			
30								NOTE: Installed 22'6" of 2" PVC water observation pipe w/15' of fabric covered screen 20' below grade, 2'6" above grade. Installed Bentonite seal from 2'6" to 6". Installed steel protective pipe w/locking cap 3' above grade. Well was developed.			
40											

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: M.K.
 HELPER: K.H.

SOILS ENGINEER
 DRILLING INSPECTOR *Glen Davies TRC*

SAMPLE TYPE
 C = CORED W = WASHED
 SS = SPLIT SPOON
 UP = UNDISTURBED PISTON
 TP = TEST PIT
 UT = UNDISTURBED THINWALL

COHESIONLESS DENSITY
 0-10 LOOSE
 10-30 MED. COMP.
 30-50 DENSE
 50+ VERY DENSE

TOTAL FOOTAGE:
 Earth Boring Ft.
 Rock Coring Ft.
 HOLE NO.

SOIL SAMPLING LOG

START 5-29-84
 FINISH 5-29-84
 WEIGHT OF HAMMER 140
 HAMMER FALL 30" 23"
 GROUND WATER OBSERVATIONS
 DATE 29-84 TIME 0 hrs. DEPTH 8'6"
 SAMPLER O.D. 2" I.D. 1 3/8"
 TYPE OF RIG Hydraulic Rotary

CONNECTICUT TEST BORINGS, INC.

Sub-Surface Specialists

P.O. BOX 69
 SEYMOUR, CONNECTICUT
 (203) 888-3857

PROJ. NO.
 LOCATION Cheshire, Conn.
 LINE & STA. (Bovano)
 OFFSET
 GROUND ELEVATION
 HOLE NO. MW-F
 CASING SAMPLER CORE BARREL
 TYPE HSA SS
 SIZE I.D. 3 1/2" 1 3/8"

ESPECIALLY COMPILED FOR

TRC Environmental Consultants, Inc.

800 Connecticut Boulevard

East Hartford, Conn. 06108

DEPTH BELOW SURFACE	SAMPLE NO. DEPTHS ELEV. FT.	Type of Sample	BLOWS PER 6" ON SAMPLER			DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOILS REMARKS	SAMPLE		
			From		TO				NO.	PEN	REC.
			0-6	6-12	12-18						
						2"	Blktop.				
	5' to 6'6"	SS	12	49	53	V. Dense dry	Red br. f-c sand and c-f gravel, some cobbles, lit. silt.	1	18	17	
10	10' to 12'	SS	23	18	13	Dense wet	Red br. f-c sand, some f-c gravel, lit. cobbles, tr. silt.	2	24	8	
	15' to 16'6"	SS	42	23	25	Dense wet	Same	3	18	8	
20	25' to 27'	SS	13	12	13	M. Comp wet	Red br. f-c sand, lit. f-c gravel, tr. cobbles, tr. silt.	4	24	22	
	30' to 31'6"	SS	8	11	14	M. Comp wet	Same	5	18	16	
						34'	Bottom of boring 34'.				
							NOTE: Installed 35' of 2" PVC water observation pipe 34' below grade, 1' above grade w/25' of fabric covered screen. Installed 1' bentonite seal from 2' - 1'. Installed 5' prot. pipe 2' above grade w/locking cap. Well was developed.				

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: M.K.
 HELPER: M.H.
 SOILS ENGINEER: [Signature]
 DRILLING INSPECTOR: [Signature]

SAMPLE TYPE
 C = CORED W = WASHED
 SS = SPLIT SPOON
 UP = UNDISTURBED PISTON
 TP = TEST PIT
 UT = UNDISTURBED THINWALL

COHESIONLESS DENSITY
 0-10 LOOSE
 10-30 MED. COMP.
 30-50 DENSE
 50+ VERY DENSE

TOTAL FOOTAGE:
 Earth Boring Ft.
 Rock Coring Ft.
 HOLE NO.

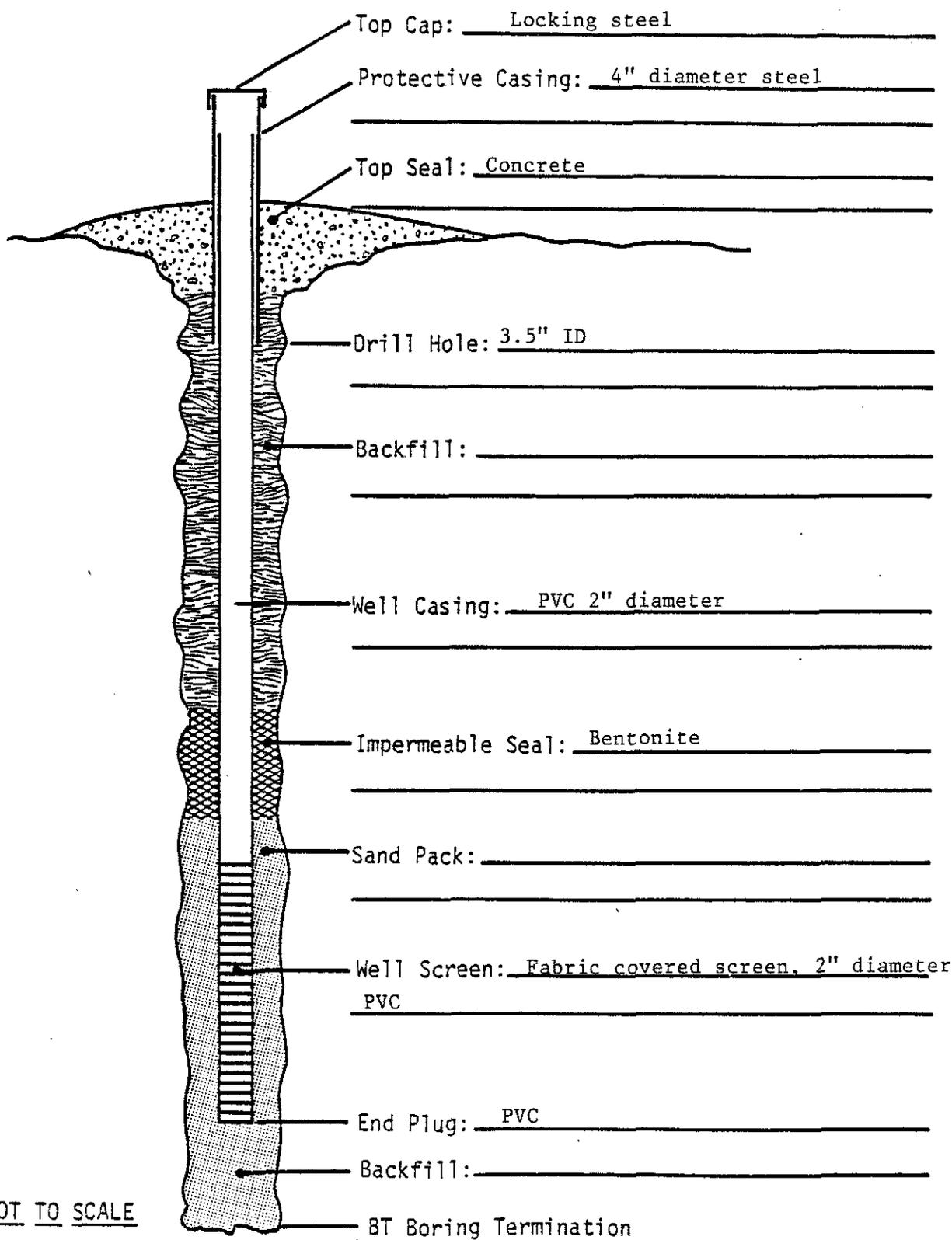
APPENDIX 2

MONITORING WELL CONSTRUCTION DETAIL

Project # 2661-N51-00 Page 1 of 1 Boring # MW-E

Project Bovano

DEPTH	ELEV.
3'	164.47'
0	161.70'
"	161.20'
5"	159.20
6"	154.20'
2'6"	139.20'



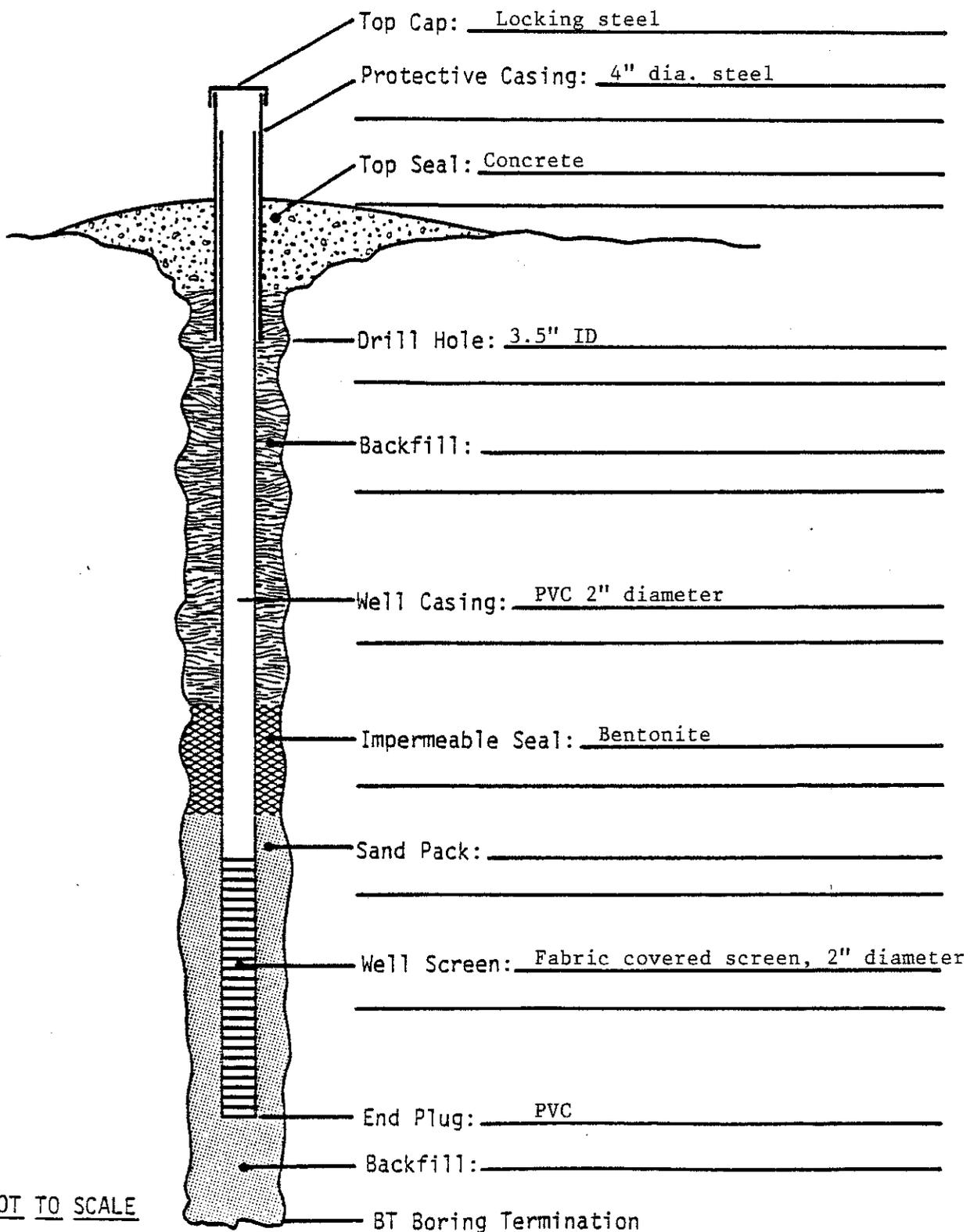
NOT TO SCALE

MONITORING WELL CONSTRUCTION DETAIL

Project # 2661-N51-00 Page 1 of 1 Boring # MW F

Subject Bovano

DEPTH	ELEV.
2'	165.86'
	163.01'
	162.01'
	161.01'
	154.01'
14.0'	129.01'



NOT TO SCALE

APPENDIX 3

SOUTH CENTRAL CONNECTICUT REGIONAL WATER AUTHORITY

90 Sargent Drive, New Haven, CT 06511

203) 624-6671, Extension 364

Laboratory Certification #PH-0411

Laboratory Report: ORGANICS ANALYSES

Number: Bovano

Sample Location: Cheshire mWA

ID: B37 Date of Sample: 6-19-84

Date of Analysis: 6-20-84

Measurable Volatile Halocarbons:

<u>Compound</u>	<u>Results**</u>	<u>Compound</u>	<u>Results**</u>
Methane	ND	1,2-Dichloropropane	ND
Methane		trans-1,3-Dichloropropylene	
1,1-Difluoromethane		Trichloroethylene	50
Chloride		Carbon tetrachloride	ND
Methane		1,1,2-Trichloroethane	
1,1,1-Trichloroethane		cis-1,3-Dichloropropylene	
1,1-Difluoroethane		2-Chloroethylvinyl ether	
1,1,1-Trichloroethane		1,1,1-Trichloroethane	
1,1,2-Trichloroethane		1,1,2,2-Tetrachloroethane	
1,1,2-Dichloroethane	< 1	<u>Trihalomethanes:</u>	
1,1,2-Trichloroethane	ND	Chloroform	
1,1,2-Trichloroethane	↓	Bromodichloromethane	
		Dibromochloromethane	
		Bromoform	
		TOTAL THMS:	↓

** values are expressed as ug/l

ND = None detected (Limits: <1.0 ppb)

SIGNATURE: Jeffrey E Peters

TITLE: Chemist

REMARKS:

SOUTH CENTRAL CONNECTICUT REGIONAL WATER AUTHORITY

90 Sargent Drive, New Haven, CT 06511

(860) 624-6671, Extension 364

Laboratory Certification #PH-0411

Laboratory Report: ORGANICS ANALYSES

Client: Cheshire

Sample Location: MWB

Order #: C11 Date of Sample: 6-19-84

Date of Analysis: 6-20-84

Stable Volatile Halocarbons:

<u>Compound</u>	<u>Results**</u>	<u>Compound</u>	<u>Results**</u>
methane	ND	1,2-Dichloropropane	ND
ethane		trans-1,3-Dichloropropylene	
trifluoromethane		Trichloroethylene	34
chloride		Carbon tetrachloride	ND
ethane		1,1,2-Trichloroethane	
ethylene chloride		cis-1,3-Dichloropropylene	
monofluoromethane		2-Chloroethylvinyl ether	
chloroethane		1,1,1-Trichloroethane	<1
chloroethylene		1,1,2,2-Tetrachloroethane	ND
1,2-Dichloroethylene		<u>Trihalomethanes:</u>	
chloroethane		Chloroform	
chloroethylene	↓	Bromodichloromethane	
		Dibromochloromethane	
		Bromoform	
		TOTAL THMS:	↓

* values are expressed as ug/l

ND = None detected (Limits: <1.0 ppb)

ANALYZED BY: Jeffrey E. Peters

TITLE: Chemist

DATE: _____
 SIGNED: _____

SOUTH CENTRAL CONNECTICUT REGIONAL WATER AUTHORITY
 90 Sargent Drive, New Haven, CT 06511

(203) 624-6671, Extension 364

Laboratory Certification #PH-0411

Laboratory Report: ORGANICS ANALYSES

Number: Bovano

Sample Location: Cheshire Well D

: B44 Date of Sample: 6-18-84

Date of Analysis: 6-20-84

Table Volatile Halocarbons:

<u>Compound</u>	<u>Results**</u>	<u>Compound</u>	<u>Results**</u>
Methane	ND	1,2-Dichloropropane	ND
Ethane		trans-1,3-Dichloropropylene	
Prodifluoromethane		Trichloroethylene	
Chloride		Carbon tetrachloride	
Ethane		1,1,2-Trichloroethane	
Ene chloride		cis-1,3-Dichloropropylene	
Profluoromethane		2-Chloroethylvinyl ether	
Chloroethane		1,1,1-Trichloroethane	
Chloroethylene		1,1,2,2-Tetrachloroethane	
1,2-Dichloroethylene		<u>Trihalomethanes:</u>	
Chloroethane		Chloroform	
Chloroethylene	↓	Bromodichloromethane	
		Dibromochloromethane	
		Bromoform	
		TOTAL THMS:	↓

** values are expressed as ug/l

ND = None detected (Limits: <1.0 ppb)

Signature: Jeffrey E Peters

TITLE: Chemist

TS: _____

SOUTH CENTRAL CONNECTICUT REGIONAL WATER AUTHORITY

90 Sargent Drive, New Haven, CT 06511

(203) 624-6671, Extension 364

Laboratory Certification #PH-0411

Laboratory Report: ORGANICS ANALYSES

Owner: Bovano

Sample Location: Cheshire MWF

: B14

Date of Sample: 6-19-84

Date of Analysis: 6-20-84

Measurable Volatile Halocarbons:

<u>Compound</u>	<u>Results**</u>	<u>Compound</u>	<u>Results**</u>
Acetone	ND	1,2-Dichloropropane	ND
Acrylonitrile		trans-1,3-Dichloropropylene	
Chlorodifluoromethane		Trichloroethylene	<1
Chloroethane		Carbon tetrachloride	ND
Chloroethene		1,1,2-Trichloroethane	
Chloroform		cis-1,3-Dichloropropylene	
Chlorofluoromethane		2-Chloroethylvinyl ether	
Dichloroethane		1,1,1-Trichloroethane	
Dichloroethylene		1,1,2,2-Tetrachloroethane	
trans-1,2-Dichloroethylene		<u>Trihalomethanes:</u>	
1,1-Dichloroethane		Chloroform	
1,1-Dichloroethylene	↓	Bromodichloromethane	
1,1,1-Trichloroethane		Dibromochloromethane	
		Bromoform	
		TOTAL THMS:	↓

** values are expressed as ug/l

ND = None detected (Limits: <1.0 ppb)

ANALYST: Jeffrey E Peters

TITLE: Chemist

REMARKS: _____

SOUTH CENTRAL CONNECTICUT REGIONAL WATER AUTHORITY
 90 Sargent Drive, New Haven, CT 06511

(203) 624-6671, Extension 364

Laboratory Certification #PH-0411

Laboratory Report: ORGANICS ANALYSES

Number: Bovano

Sample Location: MWF

: A38

Date of Sample: 6-19-84

Date of Analysis: 6-20-84

Table Volatile Halocarbons:

<u>Compound</u>	<u>Results**</u>	<u>Compound</u>	<u>Results**</u>
Acetone	ND	1,2-Dichloropropane	ND
Chloroethane		trans-1,3-Dichloropropylene	
Bromodifluoromethane		Trichloroethylene	1.0
Chloroform		Carbon tetrachloride	ND
Chloroethane		1,1,2-Trichloroethane	
1,1,1-Trichloroethane		cis-1,3-Dichloropropylene	
1,1,2,2-Tetrachloroethane		2-Chloroethylvinyl ether	
1,1,2-Dichloroethane		1,1,1-Trichloroethane	
1,1,2,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane	
1,2-Dichloroethylene		<u>Trihalomethanes:</u>	
1,1,2-Dichloroethane		Chloroform	
1,1,2-Dichloroethylene		Bromodichloromethane	
		Dibromochloromethane	
		Bromoform	
		TOTAL THMS:	

** values are expressed as ug/l

ND = None detected (Limits: <1.0 ppb)

SIGNATURE: Jeffrey E. Peters

TITLE: Chemist

REMARKS:

APPENDIX 4

NO. CV-83-0288646S

STANLEY J. PAC, COMMISSIONER
OF ENVIRONMENTAL PROTECTION

:

SUPERIOR COURT

VS.

:

JUDICIAL DISTRICT OF HARTFORD/
NEW BRITAIN AT HARTFORD

BOVANO INDUSTRIES, INCORPORATED

:

MAY 22, 1984

MOTION FOR STIPULATED JUDGMENT

The parties to the captioned matter hereby stipulate that the following order may enter as the judgment of the Court in this case:

1. On or before May 30, 1984, the defendant will verify to the Commissioner of Environmental Protection that two additional monitoring wells have been installed, one at the southern edge of the parking area of the defendant's facility and the other at the south of the office building located on the defendant's property, both of which are shown on a map attached hereto as Exhibit 1 and marked as 1 and 2 respectively.

2. On or before June 30, 1984, the defendant will submit for the review, comment and/or approval of the Commissioner of Environmental Protection a report detailing the extent and degree of ground water, surface water and soil contamination, if any, and proposed remedial actions ("the plan") to alleviate the contamination, if any, at the defendant's facility. This report shall also contain a plan to provide for best management practices for industrial chemical storage, usage and waste handling.

3. If the Commissioner of Environmental Protection approves the plan to which reference is made in No. 2 above, the defendant shall begin implementation thereof within fifteen (15) days of its receipt of written notice of such approval. If the Commissioner, after reviewing the plan, proposes to reject it or to accept it only with modifications, he shall notify the defendant in writing of such proposed actions and within fifteen (15) days of the receipt of this notice by the defendant, the Commissioner or his representatives shall meet with the defendant so that the defendant may be heard with respect to the proposed actions. Following this meeting, and after considering the comments of the defendant, the Commissioner shall notify the defendant in writing of its final action on the plan. Within fifteen (15) days of its receipt of this notice, the defendant shall commence to undertake the remedial actions called for by the notice.

4. On or before the sixtieth (60th) day following the initiation of plan implementation, defendant will verify to the Commissioner that all necessary construction of the remedial actions have been completed and that all best management practices have been implemented.

5. For good cause shown, the time limitations contained in this order may be extended by the Court pursuant to an appropriate motion and the Court shall have continuing jurisdiction to monitor this order for this purpose.