Department of Environmental Conservation

Division of Environmental Remediation

Valley Falls Dry Cleaners
Site No. 4-42-028
Village of Valley Falls
Town of Pittstown
Rensselaer County, New York

Post Remediation Report

Bureau of Construction Services

September 2000

New York State Department of Environmental Conservation
GEORGE E. PATAKI, *Governor* JOHN P. CAHILL, *Commissioner*

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1. Background

1.1 Site location

The Valley Falls Dry Cleaner site is located in a residential area where single family homes are serviced by private drinking water wells. It occupies 1.2 acres and is located at 11 Lyons Street in the incorporated Village of Valley Falls, Town of Pittstown, Rensselaer County, New York. The site is approximately 0.5 mile from Hoosic River.

1.2 Site History

The site operated as a dry cleaning facility from the 1940s to the mid 1970s under the names Winchell Dry Cleaners and Valley Falls Dry Cleaners. It is believed that the dry cleaning operation discharged perchloroethene (PCE) wastes directly onto the ground surface and into an on-site septic system.

In January 1992, the NYSDOH sampled nine private wells in the area. Subsequently, the USEPA provided bottled water and installed granular activated carbon/ultraviolet units at six of the residences that exceeded the NYSDOH drinking water standard of 5 ppb. The NYSDEC completed a Phase I assessment of the site in June 1993, and the site was listed on the NYS Registry as a class 2 inactive hazardous waste disposal site. The NYSDEC conducted in-house remedial investigation work from early 1996 to December 1996. The ROD was issued on February 20, 1998. The remedial action was designed in-house by the Bureau of Central Remedial Action staff. The design was completed in March 1999.

2. Summary of Remedial Work performed under the remedial construction contract.

The contract was awarded to the Tyree Organization , Inc. of Latham, New York with Notice to Proceed date of January 7, 2000. Resident inspector was Russ Shaver of NYSDEC.

2.1 Scope of the Site Remediation Project

The scope of the contract work included replacement of three residential drinking water wells, excavation and disposal of PCE contaminated soil, a 1,000 gallon underground storage tank, a septic tank, a dry well,

confirmatory soil sampling, backfilling of the excavations and installation of a 8 inch soil cover over the disturbed areas.

The contract required excavation and removal of contaminated soil exhibiting concentration of perchloroethene (PCE) greater than 0.84 ppm.

2.2 Important Milestone Dates

Bid opening date:	September 22, 1999
Notice to Proceed date:	January 7, 2000
Mobilization date:	January 13, 2000
Substantial Completion date:	March 7, 2000
Final completion date:	April 5, 2000

2.3 Cost of the project

Engineer's estimate:	$174,700.00
The lowest bid:	$172,380.00
Change Order No.1:	$48,237.33
The final cost:	$220,617.33

2.4 Significant variations from the contract documents

Underground Storage Tanks (USTs)

The original contract provided for the removal of one 1000 gallons UST. As the excavation continued, two additional USTs were found. One tank had 500 gallons capacity, while the second one had 2,000 gallons capacity. Both tanks were used in the past for storage of petroleum products, they were corroded, and their contents leaked to the soil. These UTCs were excavated, cleaned and disposed off site.

Soil

The original contract called for the excavation and an off-site disposal of 120 tons of hazardous soil and debris and 85 tons of non-hazardous contaminated soil. No hazardous soil was found. The contractor excavated 269.49 tons of non-hazardous contaminated soil. This quantity overrun was dictated by the presence of petroleum contamination in the soil, beyond the designed limits of the excavation. During the excavation, the soil was screened using Photoionization Detector (PID) instrument.

The excavation continued until all contaminated soil was removed. The classification of the soil for disposal was based on STARS Memo #2 and the soil analytical results obtained from TOXICON CORPORATION of Bedford, Massachusetts, TAGM 3028.

Since the horizontal and vertical extent of petroleum related contamination exceeded the original estimate the Department decided to installed a 10 inch recovery well (see the attached Fig. - 7), which could be used for recovery of contaminated groundwater, should it become necessary.

Also, the Department ordered an additional soil investigation, to determine the extent of petroleum related contamination in the soil. The contractor took 26 soil Geoprobe samples, to a depth of 12 feet, and performed head space analysis using PID analyzer. The boring logs and PID screening results are attached in Appendix D.

Installation of Residential Water Wells

The contract specifications required the contractor to achieve a minimum yield of 5 gallons per minute (gpm) from each of the newly installed residential water wells, at an average well depth of 300 ft. This requirement was not met. The well installed at 9 Edward Street went to a depth of 500 feet and yielded only 3.0 gpm. The well at 12 Charles Street went to a depth of 500 feet and yielded 1.5 gpm and the well at 31 State Street was abandoned at a depth of 275 ft because there was minimal water. Also, this well was hydraulically connected to the old contaminated well. Since it was impractical to drill any deeper, the Department decided to decommission the new borehole and re-drill the existing well, as it was capable of yielding a sustained acceptable flow. The contractor decommissioned the new well and re-drilled the existing water well to a depth of 225 feet and a yield of 3.6 gpm. The contractor also supplied potable water to the residence at 31 State Street during decommissioning and re-drilling operations and monitored the performance of the existing water treatment system during the well development period.

The final location of the wells differed from their design location. The new locations for the residential wells were evaluated and selected during an on-site meeting by representatives of NYSDOH, Rensselaer County

Health Department (RCHD) and NYSDEC. This evaluation was performed with a view to select the best location for each well, taking into account the location of the septic tanks.

2.5 Cleanup goals

The following cleanup goals were specified in the Record of Decision:

Perchloroethene (PCE)	0.84 ppm
Petroleum	10 ppm, no odors

The specified cleanup goals were met across the excavated area and were verified by the post-excavation confirmatory sampling performed in 45 locations. Appendix B contains a tabulation of the post construction soil sampling results.

2.6 Change Orders

The Department issued one change order. The cost of Change Order No.1(Final) was $55,800.33 and it included the following modifications resulting in a revised contract amount of $228,180.33.

MODIFICATION 1. REMOVAL AND DISPOSAL OF UNDERGROUND STORAGE TANK (UST)

The original contract called for the removal of one 1000 gallon UST. However, during the remedial work, the contractor encountered two 550 gallon tanks and one 2000 gallon tank. The USTs were corroded, and their contents contaminated the surrounding soil. All three USTs had to be excavated and removed for off-site disposal. The cost of this work was determined on a Time and Materials (T&M) basis to be $19,810.

MODIFICATION 2. ADDITIONAL RESIDENTIAL WELL DRILLING

The contract specifications required the contractor to achieve a minimum yield from each of the wells installed as a part of the remedial work. To achieve this required yield and to make these wells productive, the contractor had to drill an additional 375 linear feet in excess of the contract quantity. This modification resulted in an extra cost of $15,675.00 that were determined using the contractual unit rate of $41.80 per linear foot.

MODIFICATION 3. ADDITIONAL CONSTRUCTION WATER MANAGEMENT.

Since the groundwater that accumulated in the excavation had to be removed to protect the stability of slopes and to allow excavation of the contaminated soil to continue, the contractor pumped out the contaminated water, stored, and transported for off-site disposal an additional 13,531 gallons. This modification resulted in an extra cost of $17,319.68, that was determined using the contractual unit rate of $1.28 per gallon.

MODIFICATION 4. DECOMMISSIONING OF RESIDENTIAL WELLS AT 9 EDWARD STREET AND 31 STATE STREET.

The NYSDOH required that residential drinking water wells that are to be no longer used, be properly decommissioned to protect the aquifer. The contractor was, therefore, directed to decommission the existing contaminated water well at 9 Edward Street, after the new well was installed. The cost of this additional work was determined on T&M basis to be $23,719.22. This cost included supply of drinking water to the residents at 21 State Street.

MODIFICATION 5. ADDITIONAL BACKFILL MATERIAL

The contractor placed and compacted an additional 16 cubic yards of backfill which was necessary to bring the site surface to the required grade as a part of the site restoration. The cost of this additional work was determined to be $243.20 based on the contractual unit rate of $15.20 per cu. yd.

MODIFICATION 6. ADDITIONAL EXCAVATION AND DISPOSAL OF NON-HAZARDOUS SOIL & DEBRIS

During the remedial action, the contractor excavated and removed for off-site disposal an additional 180.49 cubic yards of non-hazardous soil and debris at an extra cost of $14,258.71 that was determined using the contractual unit rate of $79.00 per cu. yd.

MODIFICATION 7. FINAL ADJUSTMENT OF CONTRACT QUANTITIES

The quantities under bid item Nos. UP-1, UP-2, UP-4, UP-5, LS-3, UP-13, UP-14 and UP-15 were underrun. This modification provided the Department with a credit of ($35,225.48).

2.7 Disposal Facilities

All contaminated non-hazardous soil was disposed at:

City of Albany Landfill,
525 Rapp Road
Albany, New York 12205

USTs were disposed at:

NH Kelman, Inc.
41 Euclid Street
Cohoes, NY 12147

Hazardous liquids were classified as F002 (due to the presence of PCE) and were disposed at:

United Oil Recovery, Inc.
136 Gracey Ave.
Meridan, CT 06451
Received 23,531 gallons of hazardous liquids.

Cycle Chem, Inc.
217 South First Street
Elizabeth, N.J. 07206
Received 190 gallons of hazardous liquids.

3.0 Engineer's Certification

VALLEY FALL DRY CLEANER SITE
CONSTRUCTION CERTIFICATION

Construction was completed in substantial conformance with the Contract Documents entitled "Valley Falls Dry Cleaner, Site NO. 4-42-028, Village of Valley, Falls, Town of Pittstown, Rensselaer County, New York, Site Remediation Project dated March 1999 and Addendum No. 1 dated September 15, 1999.

Signature: James G Van Hoesen

James G. Van Hoesen, P.E.
Designated Representative

Date: 10-10-00

APPENDIX A

ORIGINAL TABULATION OF BIDS RECEIVED

VALLEY FALLS DRY CLEANER
ENGINEERING ESTIMATE AND BID TABULATION
BIDS OPENED ON SEPTEMBER 22, 1999

ITEM N	DESCRIPTION	UNIT	QUANTITY	PRICE	X	ENGINEER'S ESTIMATE AMOUNT	X	THE TYREE ORGANIZATION UNIT PRICE	THE TYREE ORGANIZATION AMOUNT	X	GRIFFIN INDUSTRIAL SERVICES UNIT PRICE	GRIFFIN INDUSTRIAL SERVICES AMOUNT	X	NORTH AMERICAN ENV. SERV. UNIT PRICE	NORTH AMERICAN ENV. SERV. AMOUNT	X
LS-1	MOB./DEMOB/SITE PREPARATION	L.S.	1	28,000.00	x	[illegible]	X	24,662.00	24,662.00	X	29,935.52	29,935.52	X	15,483.00	15,483.00	X
UP-1	SITE SERVICES	DAY	60	66.00	x	[illegible]	X	282.00	16,920.00	X	75.00	4,500.00	X	794.08	47,644.80	X
UP-2	HEALTH AND SAFETY	DAY	40	200.00	x	[illegible]	X	56.00	2,240.00	X	364.00	14,560.00	X	253.65	10,146.00	X
UP-3	BACKFILL MATERIAL	CY	110	10.00	x	[illegible]	X	15.20	1,672.00	X	34.57	3,802.70	X	21.63	2,379.30	X
LS-2	REMOVAL OF CONCRETE SLAB	L.S.	1	3,000.00	x	[illegible]	X	926.00	926.00	X	10,101.47	10,101.47	X	7,644.00	7,644.00	X
UP-4	UNCLASSIFIED EXCAV./BACKFIL	CY	200	30.00	x	[illegible]	X	24.16	4,832.00	X	23.82	4,764.00	X	75.00	15,000.00	X
UP-5	HAZ. SOIL&DEBRIS EXCAVATION AND DISPOSAL	TONS	120	300.00	x	[illegible]	X	204.70	24,564.00	X	181.29	21,754.80	X	291.18	34,941.60	X
UP-6	BEDDING SAND	CY	25	25.00	x	[illegible]	X	20.68	517.00	X	7.32	183.00	X	95.16	2,379.00	X
UP-7	NON-HAZ. SOIL&DEBRIS EXCAVATION AND DISP	CY	85	110.00	x	[illegible]	X	79.00	6,715.00	X	86.44	7,347.40	X	210.47	17,889.95	X
LS-3	UNDERGROUND ST TANK EXCAV. AND DISP.	L.S.	1	4,500.00	x	[illegible]	X	1,959.00	1,959.00	X	5,151.92	5,151.92	X	3,538.00	3,538.00	X
UP-8	TOPSOIL	SF	2000	0.40	x	[illegible]	X	0.93	1,860.00	X	1.30	2,600.00	X	0.18	360.00	X
UP-9	SEEDING, FERT. AND MULCH	SF	500	0.25	x	[illegible]	X	0.19	95.00	X	1.52	760.00	X	3.73	1,865.00	X
UP-10	RESIDENTIAL DRILLED WELL	LF	900	11.11	x	[illegible]	X	41.80	37,620.00	X	60.39	54,351.00	X	22.53	20,277.00	X
UP-11	FURN.&INS'T WELL PUMP AND PIPING CONNNECT	EACH	3	5,000.00	x	[illegible]	X	8,400.00	25,200.00	X	8,574.94	25,724.82	X	2,835.67	8,507.01	X
UP-12	CONSTR. WATER MANAGEMENT	GAL	10000	0.50	x	[illegible]	X	1.28	12,800.00	X	1.41	14,100.00	X	1.56	15,600.00	X
UP-13	CONFIRMATORY SOIL SAMPLING	SAMPLE	53	580.00	x	[illegible]	X	131.00	6,943.00	X	576.00	30,528.00	X	661.64	35,066.92	
UP-14	CONSTRUCTION WATER SAMPLING	SAMPLE	10	900.00	x	[illegible]	X	144.00	1,440.00	X	290.40	2,904.00	X	364	3,640.00	
UP-15	RESIDENTIAL WELL WATER SAMPLING	SAMPLE	5	700.00	x	[illegible]	X	183.00	915.00	X	1,134.12	5,670.60	X	520	2,600.00	
			TOTAL COST	EXTENDED	x	[illegible]	X		**171,880.00**	X		**238,739.23**	X		**244,961.58**	E

ITEM N	DESCRIPTION	UNIT	QUANTITY	PRICE	X	ENGINEER'S ESTIMATE AMOUNT	X	ENVIRONM. PROD. &SERV. UNIT PRICE	ENVIRONM. PROD. &SERV. AMOUNT	X	OP-TECH ENV. SERVICES UNIT PRICE	OP-TECH ENV. SERVICES AMOUNT	X	RITTER TREE&CONSTR. SERV. UNIT PRICE	RITTER TREE&CONSTR. SERV. AMOUNT	X
LS-1	MOB./DEMOB/SITE PREPARATION	L.S.	1	28,000.00	x	[illegible]	X	30,000.00	30,000.00	X	50,000.00	50,000.00	X	55,000.00	55,000.00	X
UP-1	SITE SERVICES	DAY	60	66.00	x	[illegible]	X	100.00	6,000.00	X	70.00	4,200.00	X	250.00	15,000.00	X
UP-2	HEALTH AND SAFETY	DAY	40	200.00	x	[illegible]	X	400.00	16,000.00	X	250.00	10,000.00	X	600.00	24,000.00	X
UP-3	BACKFILL MATERIAL	CY	110	10.00	x	[illegible]	X	35.00	3,850.00	X	120.00	13,200.00	X	22.00	2,420.00	X
LS-2	REMOVAL OF CONCRETE SLAB	L.S.	1	3,000.00	x	[illegible]	X	3,000.00	3,000.00	X	7,500.00	7,500.00	X	6,000.00	6,000.00	X
UP-4	UNCLASSIFIED EXCAV./BACKFIL	CY	200	30.00	x	[illegible]	X	110.00	22,000.00	X	125.00	25,000.00	X	32.00	6,400.00	X
UP-5	HAZ. SOIL&DEBRIS EXCAVATION AND DISPOSAL	TONS	120	300.00	x	[illegible]	X	300.00	36,000.00	X	275.00	33,000.00	X	170.00	20,400.00	X
UP-6	BEDDING SAND	CY	25	25.00	x	[illegible]	X	80.00	2,000.00	X	40.00	1,000.00	X	33.00	825.00	X
UP-7	NON-HAZ. SOIL&DEBRIS EXCAVATION AND DISP	CY	85	110.00	x	[illegible]	X	165.00	14,025.00	X	145.00	12,325.00	X	150.00	12,750.00	X
LS-3	UNDERGROUND ST.TANK EXCAV. AND DISP.	L.S.	1	4,500.00	x	[illegible]	X	8,000.00	8,000.00	X	4,800.00	4,800.00	X	7,000.00	7,000.00	X
UP-8	TOPSOIL	SF	2000	0.40	x	[illegible]	X	2.50	5,000.00	X	2.50	5,000.00	X	4.00	8,000.00	X
UP-9	SEEDING, FERT. AND MULCH	SF	500	0.25	x	[illegible]	X	6.00	3,000.00	X	1.00	500.00	X	5.00	2,500.00	X
UP-10	RESIDENTIAL DRILLED WELL	LF	900	11.11	x	[illegible]	X	46.00	41,400.00	X	44.00	39,600.00	X	40.00	36,000.00	X
UP-11	FURN.&INST. WELL PUMP AND PIPING CONNNECT	EACH	3	5,000.00	x	[illegible]	X	5,000.00	15,000.00	X	7,200.00	21,600.00	X	6,000.00	18,000.00	X
UP-12	CONSTR. WATER MANAGEMENT	GAL	10000	0.50	x	[illegible]	X	2.80	28,000.00	X	1.75	17,500.00	X	2.5	25,000.00	X
UP-13	CONFIRMATORY SOIL SAMPLING	SAMPLE	53	580.00	x	[illegible]	X	400.00	21,200.00	X	225.00	11,925.00	X	360	19,080.00	
UP-14	CONSTRUCTION WATER SAMPLING	SAMPLE	10	900.00	x	[illegible]	X	600.00	6,000.00	X	400.00	4,000.00	X	360	3,600.00	
UP-15	RESIDENTIAL WELL WATER SAMPLING	SAMPLE	5	700.00	x	[illegible]	X	1,000.00	5,000.00	X	900.00	4,500.00	X	1800	9,000.00	
			TOTAL COST	EXTENDED	x	[illegible]	X		**265,475.00**	X		**265,650.00**	X		**270,975.00**	X

ITEM N	DESCRIPTION	UNIT	QUANTITY	PRICE	X	ENGINEER'S ESTIMATE AMOUNT	X	HOOSICK VALLEY CONTR. UNIT PRICE	HOOSICK VALLEY CONTR. AMOUNT	X	VALLEY EQUIP. COMP. UNIT PRICE	VALLEY EQUIP. COMP. AMOUNT	X			X
LS-1	MOB./DEMOB/SITE PREPARATION	L.S.	1	28,000.00	x	[illegible]	X	90,900.00	90,900.00	X	97,091.00	97,091.00	X			X
UP-1	SITE SERVICES	DAY	60	66.00	x	[illegible]	X	880.00	52,800.00	X	485.00	29,100.00	X			X
UP-2	HEALTH AND SAFETY	DAY	40	200.00	x	[illegible]	X	160.00	6,400.00	X	3,286.00	131,440.00	X			X
UP-3	BACKFILL MATERIAL	CY	110	10.00	x	[illegible]	X	54.00	5,940.00	X	74.00	8,140.00	X			X
LS-2	REMOVAL OF CONCRETE SLAB	L.S.	1	3,000.00	x	[illegible]	X	5,885.00	5,885.00	X	2,409.00	2,409.00	X			X
UP-4	UNCLASSIFIED EXCAV./BACKFIL	CY	200	30.00	x	[illegible]	X	76.00	15,200.00	X	88.00	17,600.00	X			X
UP-5	HAZ. SOIL&DEBRIS EXCAVATION AND DISPOSAL	TONS	120	300.00	x	[illegible]	X	682.00	81,840.00	X	266.00	31,920.00	X			X
UP-6	BEDDING SAND	CY	25	25.00	x	[illegible]	X	75.00	1,875.00	X	135.00	3,375.00	X			X
UP-7	NON-HAZ. SOIL&DEBRIS EXCAVATION AND DISP	CY	85	110.00	x	[illegible]	X	154.00	13,090.00	X	292.00	24,820.00	X			X
LS-3	UNDERGROUND ST.TANK EXCAV. AND DISP.	L.S.	1	4,500.00	x	[illegible]	X	5,100.00	5,100.00	X	8,256.00	8,256.00	X			X
UP-8	TOPSOIL	SF	2000	0.40	x	[illegible]	X	2.65	5,300.00	X	1.30	2,600.00	X			X
UP-9	SEEDING, FERT. AND MULCH	SF	500	0.25	x	[illegible]	X	2.20	1,100.00	X	2.35	1,175.00	X			X
UP-10	RESIDENTIAL DRILLED WELL	LF	900	11.11	x	[illegible]	X	47.50	42,750.00	X	65.00	58,500.00	X			X
UP-11	FURN.&INST. WELL PUMP AND PIPING CONNNECT	EACH	3	5,000.00	x	[illegible]	X	3,940.00	11,820.00	X	10,500.00	31,500.00	X			X
UP-12	CONSTR. WATER MANAGEMENT	GAL	10000	0.50	x	[illegible]	X	0.50	5,000.00	X	2.30	23,000.00	X			X
UP-13	CONFIRMATORY SOIL SAMPLING	SAMPLE	53	580.00	x	[illegible]	X	525.00	27,825.00	X	480.00	25,440.00	X			X
UP-14	CONSTRUCTION WATER SAMPLING	SAMPLE	10	900.00	x	[illegible]	X	400.00	4,000.00	X	486.00	4,860.00	X			X
UP-15	RESIDENTIAL WELL WATER SAMPLING	SAMPLE	5	700.00	x	[illegible]	X	580.00	2,900.00	X	2,909.00	14,545.00	X			X
			TOTAL COST	EXTENDED	x	[illegible]	X		**379,725.00**	E		**516,771.00**	E			X

E - BIDS CONTAINING ARITHMETICAL ERRORS

APPENDIX B

POST CONSTRUCTION SOIL SAMPLING LOCATION AND RESULTS

New York State Department Of Environmental Conservation

Site Remediation Project

Valley Falls Dry Cleaner Soil Excavation

Valley Falls, New York

Site # 4-42-028

Verification Soil Sample Results Summary

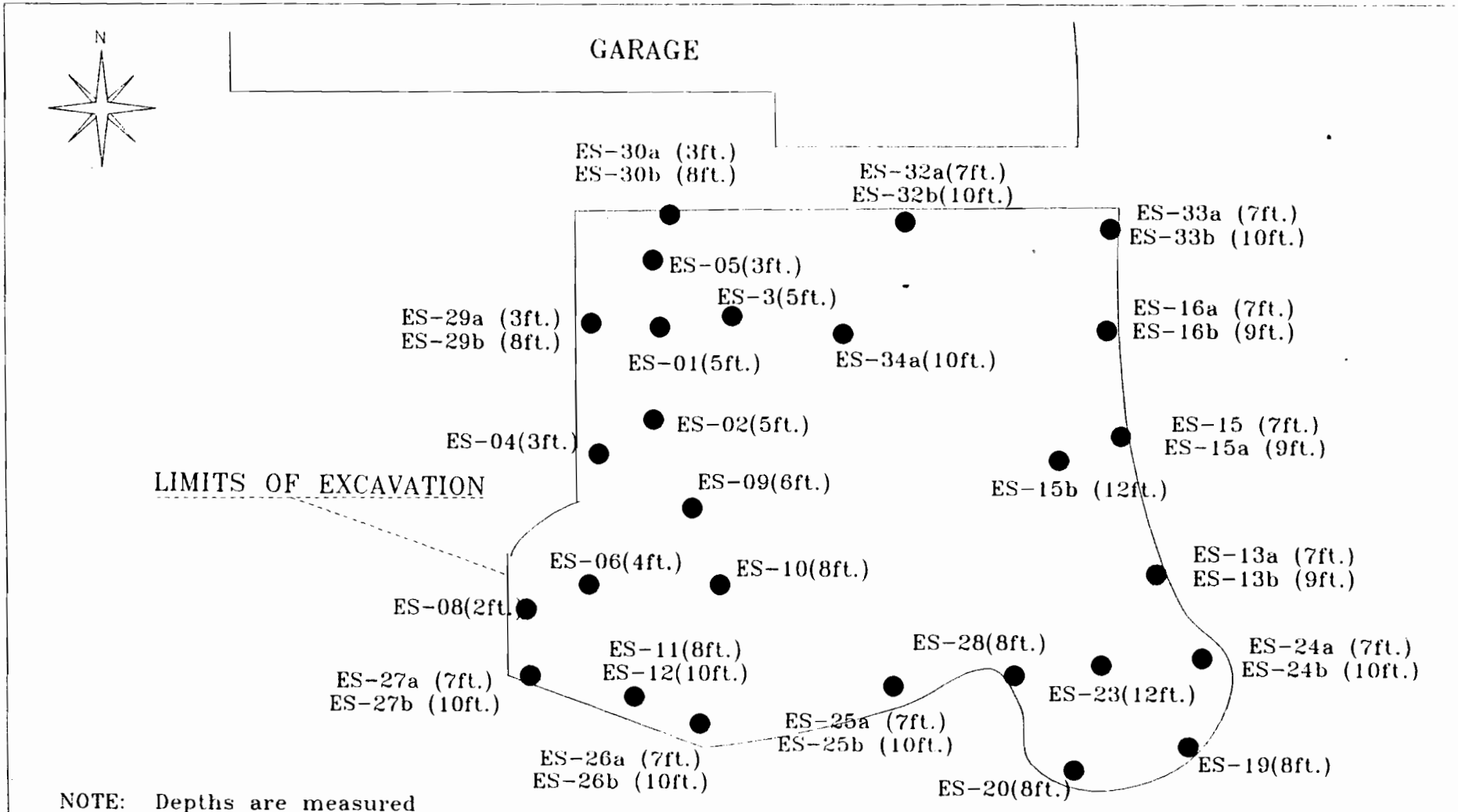
All values reported in mg/kg

Target Cleanup Goal is **0.84** mg/kg

Sample #	PCE	Petroleum		ASP package	Notes	
ES-1	0.029	ND		X		
ES-2	0.079	ND		X		
ES-3	0.095	ND		X		
ES-4	0.026	ND		X		
ES-5	0.15	, ND		X		
ES-6	ND	ND		X		
ES-7	0.011	ND		X		
ES-8	0.004	ND		X		
ES-9	0.097	ND		X		
ES-10	0.023	ND		X		
ES-11	87,000	5400		X	further excavation; # 12 is resample	
ES-12	0.18	148		X		
ES-13	ND	ND		X		
ES-13a	ND	ND		X		
ES-14	ND	ND		X		
ES-15	0.015	ND		X		
ES-15a	0.011	ND		X		
ES-15b	ND	ND		X		
ES-16	0.008	ND		X		
ES-16a	0.012	ND		X		
ES-18	0.009	ND		X		
ES-18a	0.089	ND		X		
ES-19	0.005	ND		X		
ES-20	0.022	ND		X		
ES-21	0.005	ND		X		
ES-22	0.004	ND		X		
ES-23	0.014	ND		X		
ES-24a	0.003	ND		X		
ES-24b	0.25	ND		X		
ES-25a	0.077	ND		X		
ES-25b	0.059	ND		X		
ES-26a	0.009	ND		X		
ES-26b	0.071	ND		X		
ES-27a	0.032	ND		X		
ES-27b	0.1	ND		X		

Tyree Organization

ES-28a	0.017	ND		X
ES-29a	0.007	ND		X
ES-29b	0.054	ND		X
ES-30a	0.012	ND		X
ES-30b	0.23	ND		X
ES-31	0.017	ND		X
ES-32a	0.013	ND		X
ES-32b	0.16	ND		X
ES-33a	0.009	ND		X
ES-33b	0.24	ND		X
ES-34a	0.23	ND		X



NOTE: Depths are measured from grade.

VALLEY FALLS DRY CLEANERS
SITE REMEDIATION PROJECT
VALLEY FALLS, New York
Site # 4-42-028

VERTICAL SCALE	NA
DRAWN BY	
CHECKED BY	
DESIGNED BY	
DESIGN ACTIVITY	
CUSTOMER	
DATE	

TITLE: POST-EXCAVATION SOIL SAMPLE LOCATIONS

Tyree Organization, Ltd.

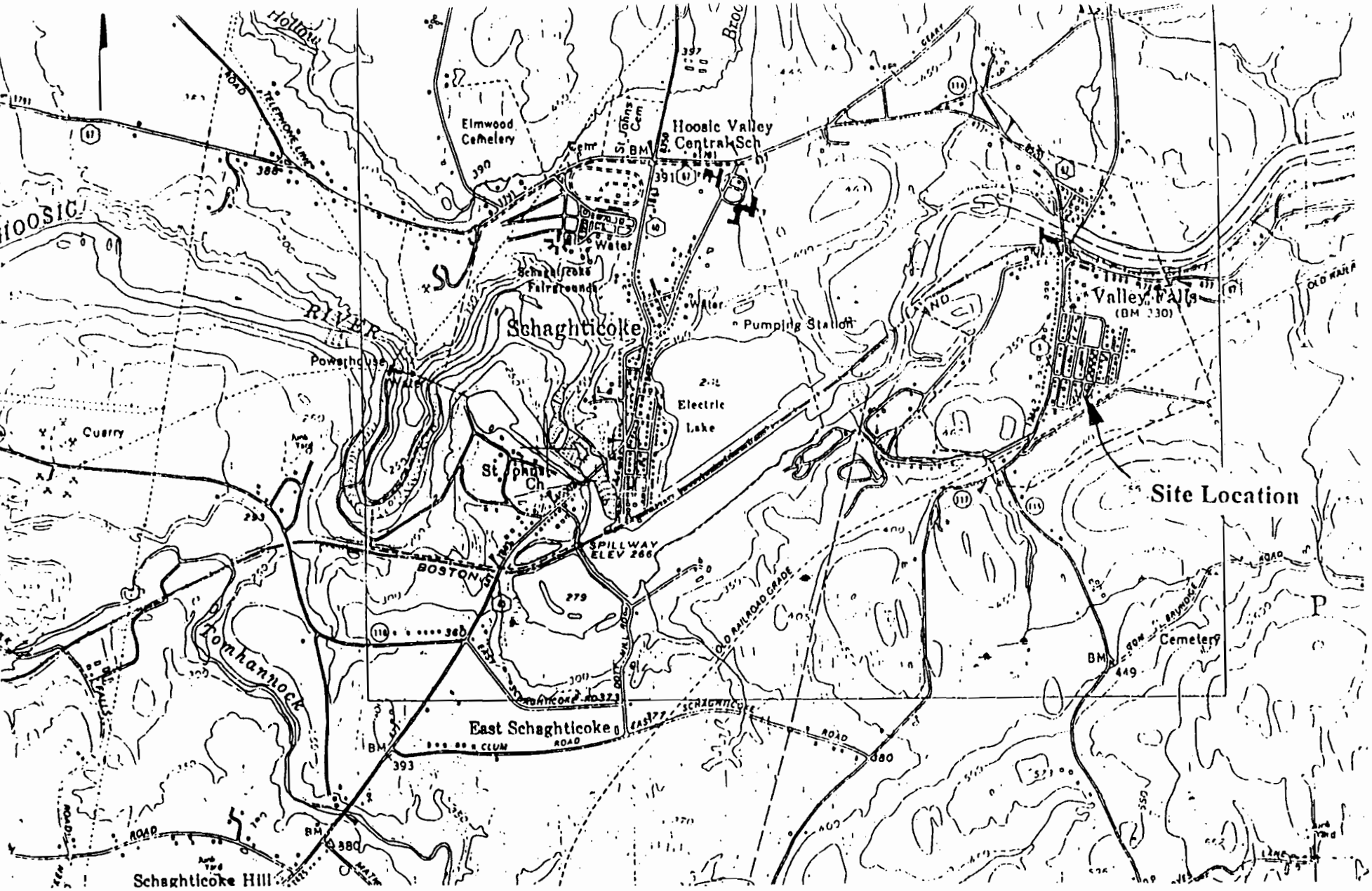
SIZE	FSCM NO	DWG NO / FILE NAME
A		FIGURE 1

HORIZONTAL SCALE	DATE	SHEET
Not to Scale	March 2000	1 of 1

APPENDIX C

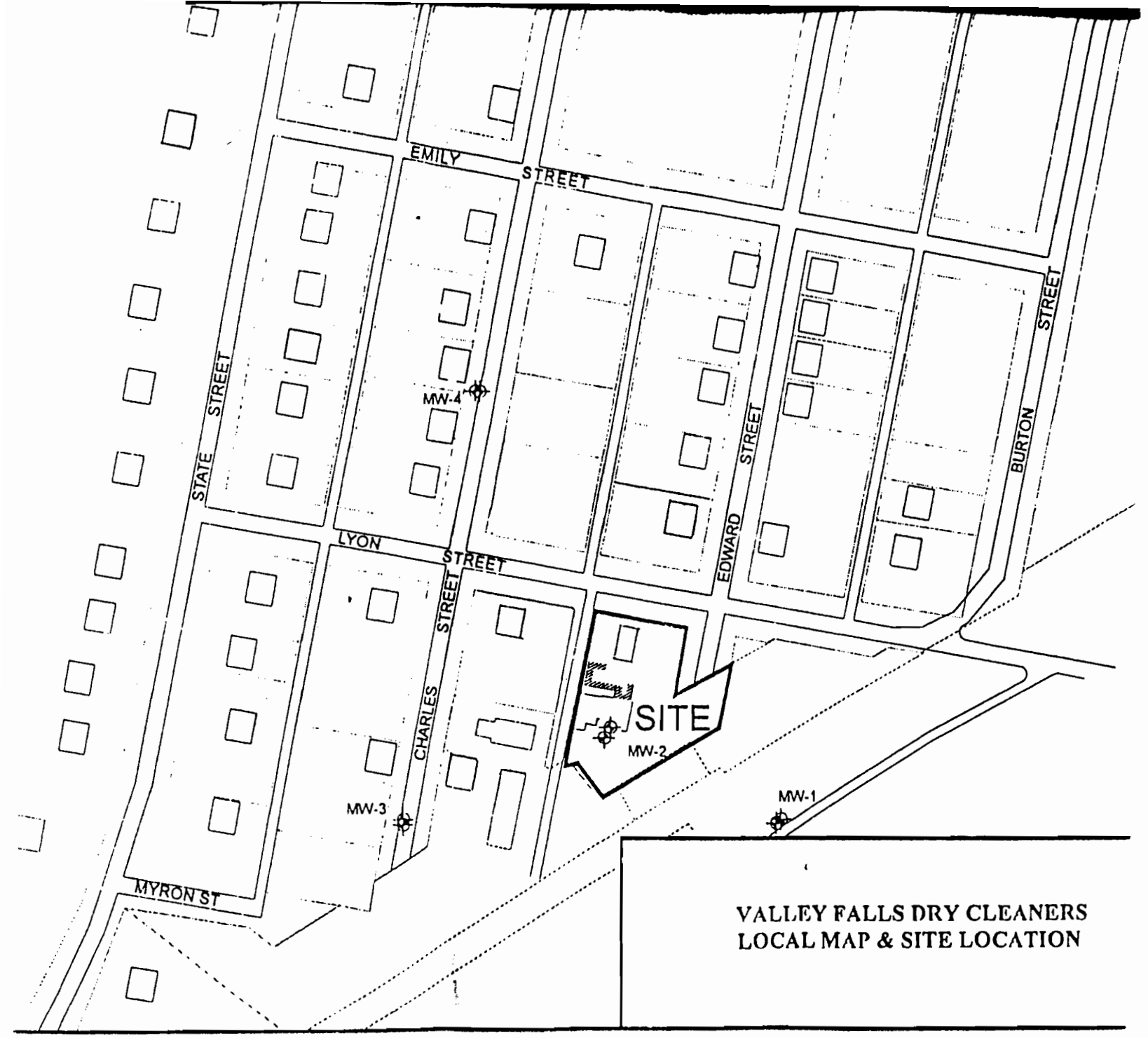
DRAWINGS

Figure 1-1	General Site Location Map
Figure 1-2	Local Site Location Map
Figure 2-1	Soil Boring Location Map
Figure 2-2	Soil Boring Location Field Sketch
Figure 7	Recovery Well - Cross Section
Figure 7-1	Recovery Well Location



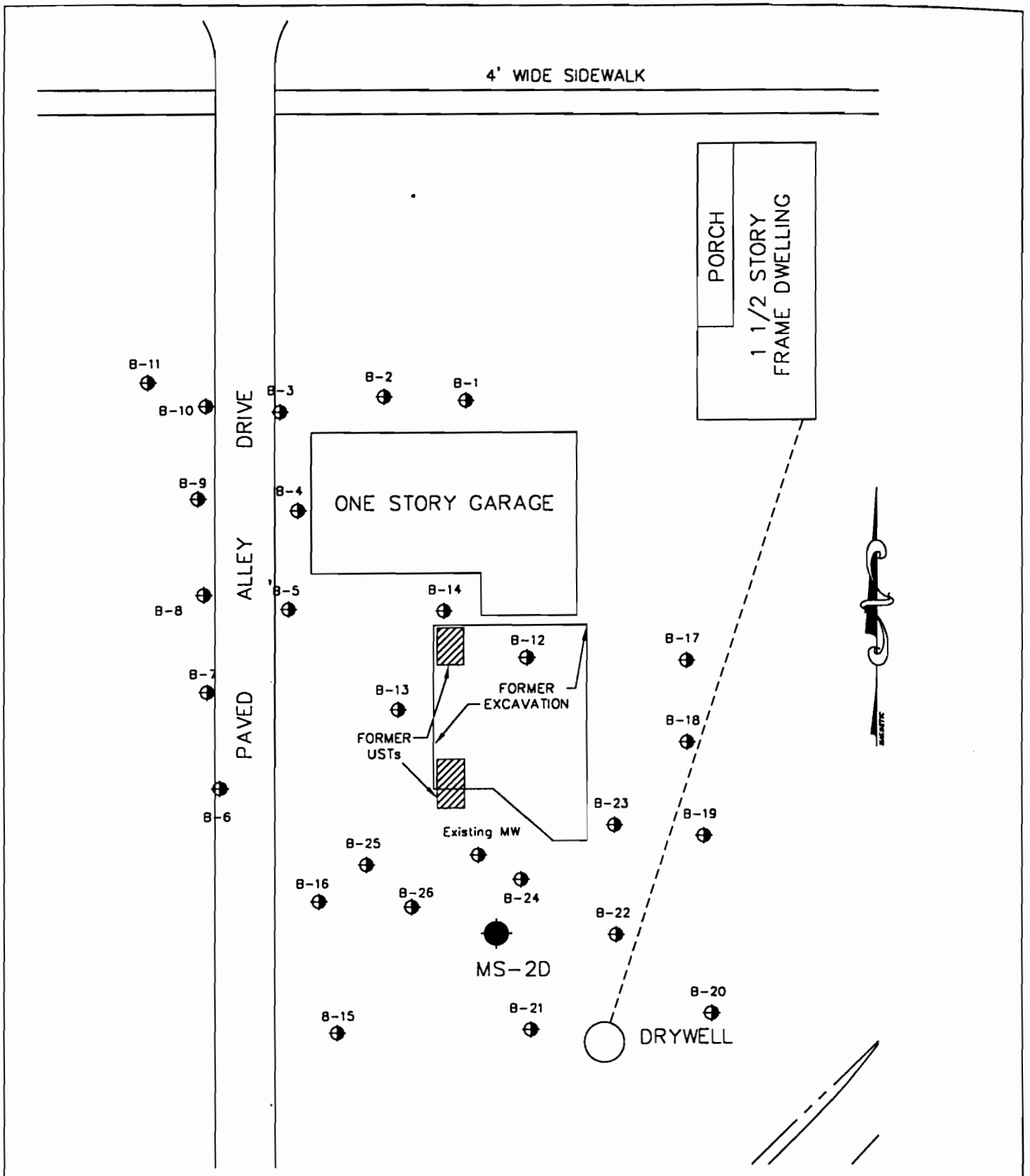
GENERAL LOCATION MAP
SCHAGHTICOKE QUADRANGLE
NOT TO SCALE

FIG. 1-1



LOCAL MAP

FIG. 1-2



LEGEND

- SOIL BORING LOCATIONS
- MONITORING WELL COMPLETED IN BEDROCK

TYREE ORGANIZATION, Ltd.

SOIL BORING SKETCH MAP

SITE: VALLEY FALLS DRY CLEANERS		SCALE: NONE
LOCATION: VALLEY FALLS, NEW YORK RENSSELAER COUNTY		PLATE:
CLIENT: NYSDEC		FIGURE 2-1
DRW BY: JSC	DATE: 4/3/2000	

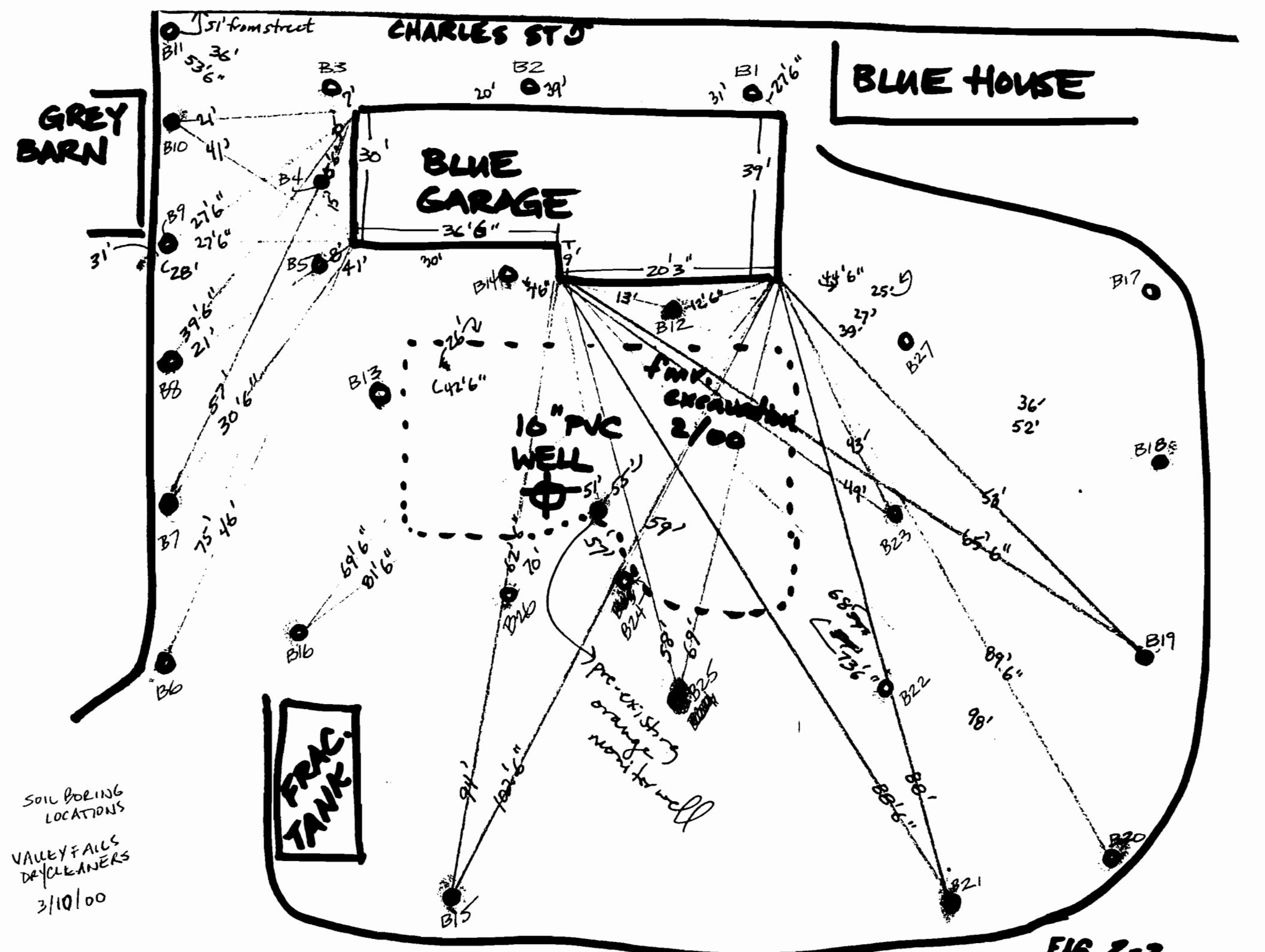
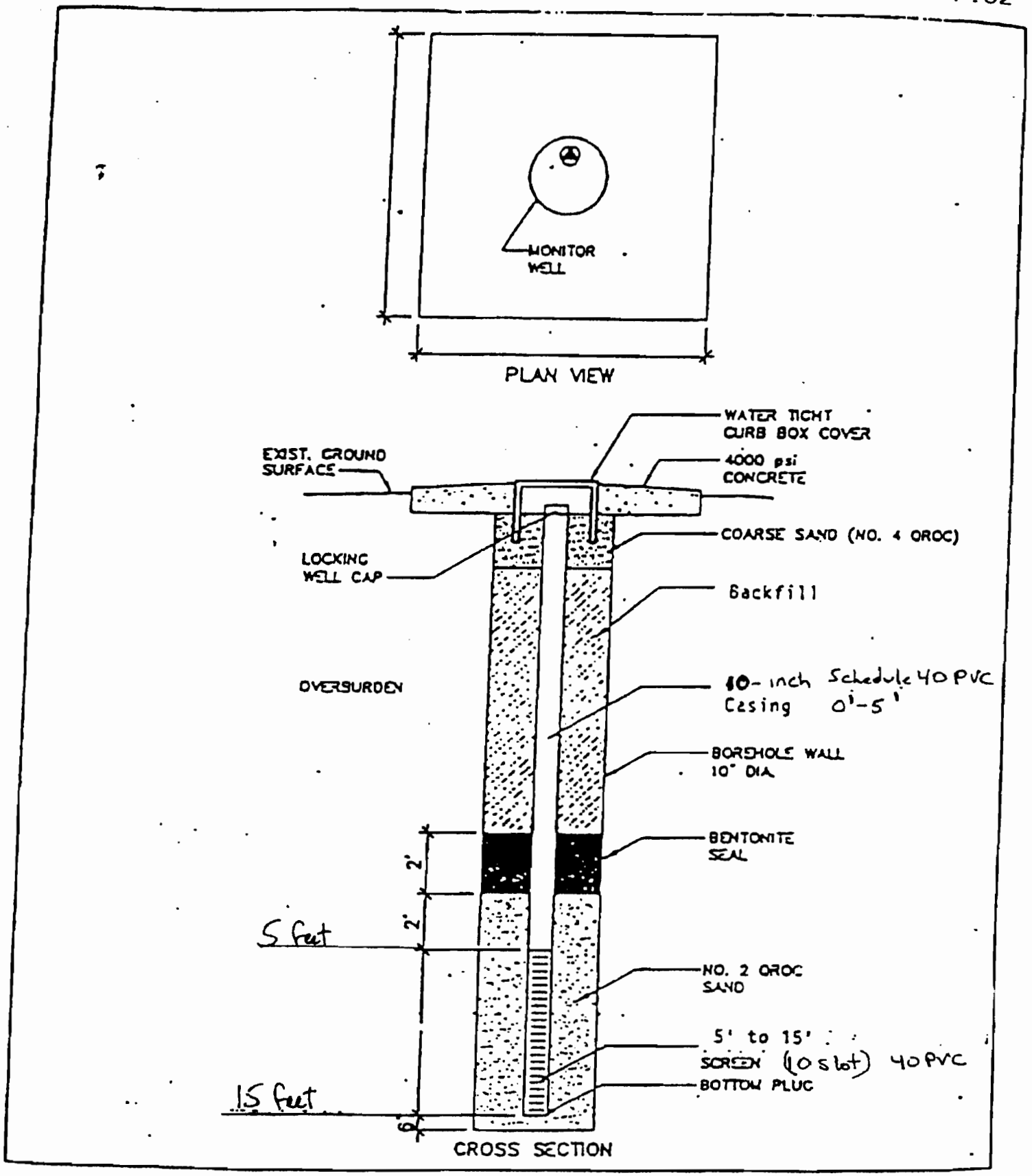
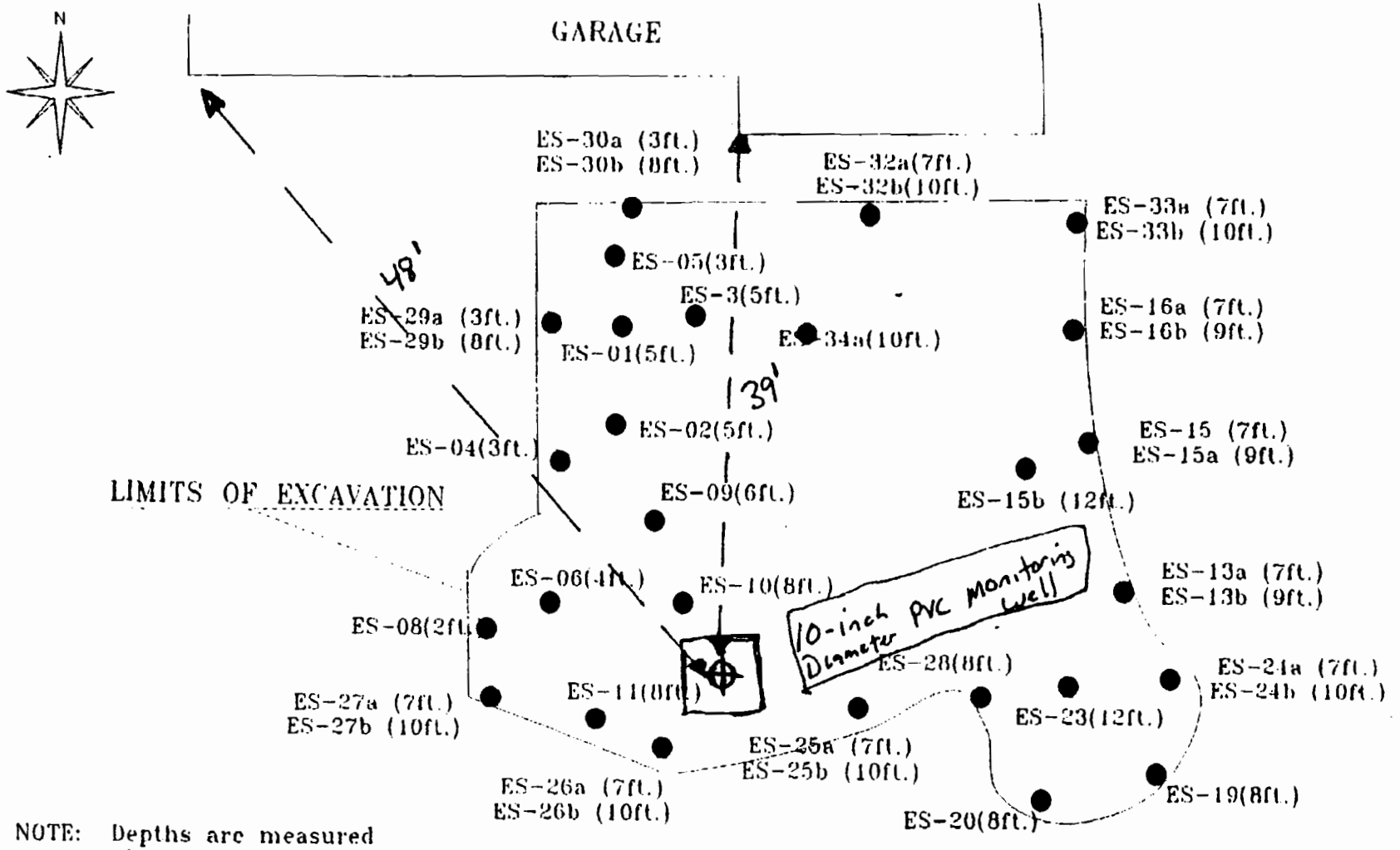

CHARLES ST
BLUE HOUSE
GREY BARN
BLUE GARAGE
36'6"
20'3"
10" PVC WELL
FRAC TANK
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B13
B14
B15
B16
B17
B18
B19
B20
B21
B22
B23
B24
B25
B26
B27
SOIL BORING LOCATIONS
VALLEY FALLS DRYCLEANERS
3/10/00

FIG. 2-2



Valley Falls DryCleaner Site #442028
OVERBURDEN WELL CONSTRUCTION

FIGURE 7: OVERBURDEN WELL CONSTRUCTION



NOTE: Depths are measured from grade.

VALLEY FALLS DRY CLEANERS
SITE REMEDIATION PROJECT
VALLEY FALLS, New York
Site # 4-42-028

VERTICAL SCALE	NA
DRAWN BY	
CHECKED BY	
DESIGNED BY	
DESIGN ACTIVITY	
CUSTOMER	
DATE	

TITLE: POST EXCAVATION SOIL SAMPLE LOCATIONS

Tyree Organization, Ltd.

SIZE	FSCM NO	DWG NO / FILE NAME
A		FIGURE 7-1

HORIZONTAL SCALE	DATE	SHEET
Not to Scale	March 2000	1 of 1

APPENDIX D

WELL LOGS

Tyree Organization, Limited Latham, NY

WELL LOG

BORING NAME: B1

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0		0			(0-4') BROWN SANDY GRAVEL
1					
2					
3					
4		0			(4-8) BROWN SILTY SAND AND GRAVEL, MOIST
5					
6					
7					
8		0			(8-12)
9					8-10: SANDY f GRAVEL, WET
10					
11					10-11: SILTY SAND AND mf GRAVEL, SOME CLAY
12					11-12: GRAY SILTY CLAY, SOME ANGULAR m GRAVEL (TILL); VERY MOIST
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited Latham, NY

WELL LOG

BORING NAME: B2.

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion
0		0		
4		0		
8		3		
12				

Field Description of Soil

(0-4')
BROWN SANDY GRAVEL

(4-8')
BROWN SILTY SAND AND mf GRAVEL, MOIST. WET @ 7'.

(8-12')
8-10: SILTY COARSE SAND AND mf GRAVEL, WET

10-11: BROWN SILTY CLAY AND MEDIUM ROUNDED GRAVEL

11-12: GREY SILTY CLAY WITH ANGULAR mc GRAVEL.

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B3

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: T. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4') BLIND PROBE
1					
2					
3					
4		2			(4-8) BROWN SILTY COARSE SAND AND mf GRAVEL, MOIST. 2" LAYERS WHICH VARY IN COARSENESS
5					
6					
7					WET AT 7'
8		2			
9					(8-12) GRAVEL, SOME COARSE SAND, WET
10					
11					11.5': 4-6" FRACTURED SHALE
12					12': BROWN SILTY CLAY (TILL)
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA

Drilling Method: GEOPROBE
Hole Dia.: 2¼"
Depth: 12'

WELL DATA

Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK

Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL

Type:
Volume Used:
Interval:

WELL HEAD COMPLETION

Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT

Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B4

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4) BLIND PROBE
1					
2					
3					
4					(4-8) COARSE SAND AND mf GRAVEL
5					
6					
7		2.7			
8					(8-12)
9					8-10: BROWN SAND AND GRAVEL, VERY MOIST
10		3			
11					10-11: BROWN SILTY CLAY AND GRAVEL
12					11-12: GRAY SILTY CLAY AND GRAVEL
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2¼"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

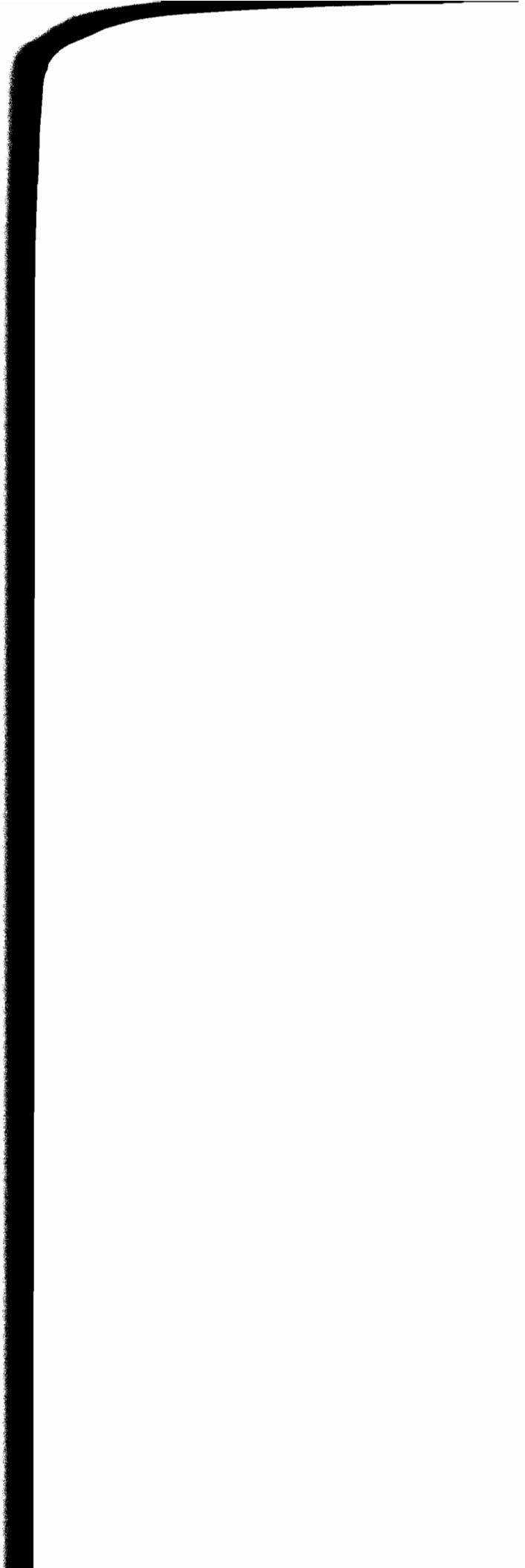
☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm



Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B5

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion
0				
1				
2				
3				
4				
5		3		
6				
7		3.4		
8				
9				
10		3.9		
11				
12				
13				
14				
15				
16				
17				

Notes: ppm=parts per million, nd=not detected

Field Description of Soil

(0-4')
Blind probe.

(4-8')
BROWN COARSE SAND AND mf GRAVEL, VERY MOIST.
WET AT 7'.
5': 2" LAYER OF BLACK ORGANIC MATERIAL

(8-12')
8-10: SILTY COARSE SAND AND f GRAVEL, WET
10': 2" LAYER OF BLACK GRAVEL
10-12: BROWN SILTY CLAY AND GRAVEL.

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type:
Riser Dia.:
Riser Length:
Interval:
Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B6

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion
0				
1				
2				
3				
4				
5		3.5		
6				
7		2.7		
8				
9				
10		2.6		
11				
12				
13				
14				
15				
16				
17				

Field Description of Soil

(0-4) BLIND PROBE.

(4-8)

4-5: BROWN SILTY f SAND

5': 2" LAYER OF BLACK ORGANIC MATERIAL

5-7': mf GRAVEL

7-8': SANDY mf GRAVEL WET AT 7'

(8-12')

8-10: COARSE SAND AND mf GRAVEL, WET

10': 2" LAYER OF RED-BROWN STAINING

10-12: BROWN SILTY CLAY AND GRAVEL, VERY MOIST.

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:
Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME
B7

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4') BLIND PROBE
1					
2					
3					
4					(4-8')
5					4-7: BROWN SILTY COARSE SAND, SOME f GRAVEL
6					
7		3.0			WET AT 7'
8					7-8': SANDY GRAVEL
9		2.6			(8-12')
10					8-9.5: COARSE SAND AND m GRAVEL, WET
11					
12					9.5-12: BROWN SILTY CLAY WITH ROUNDED AND ANGULAR GRAVEL
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

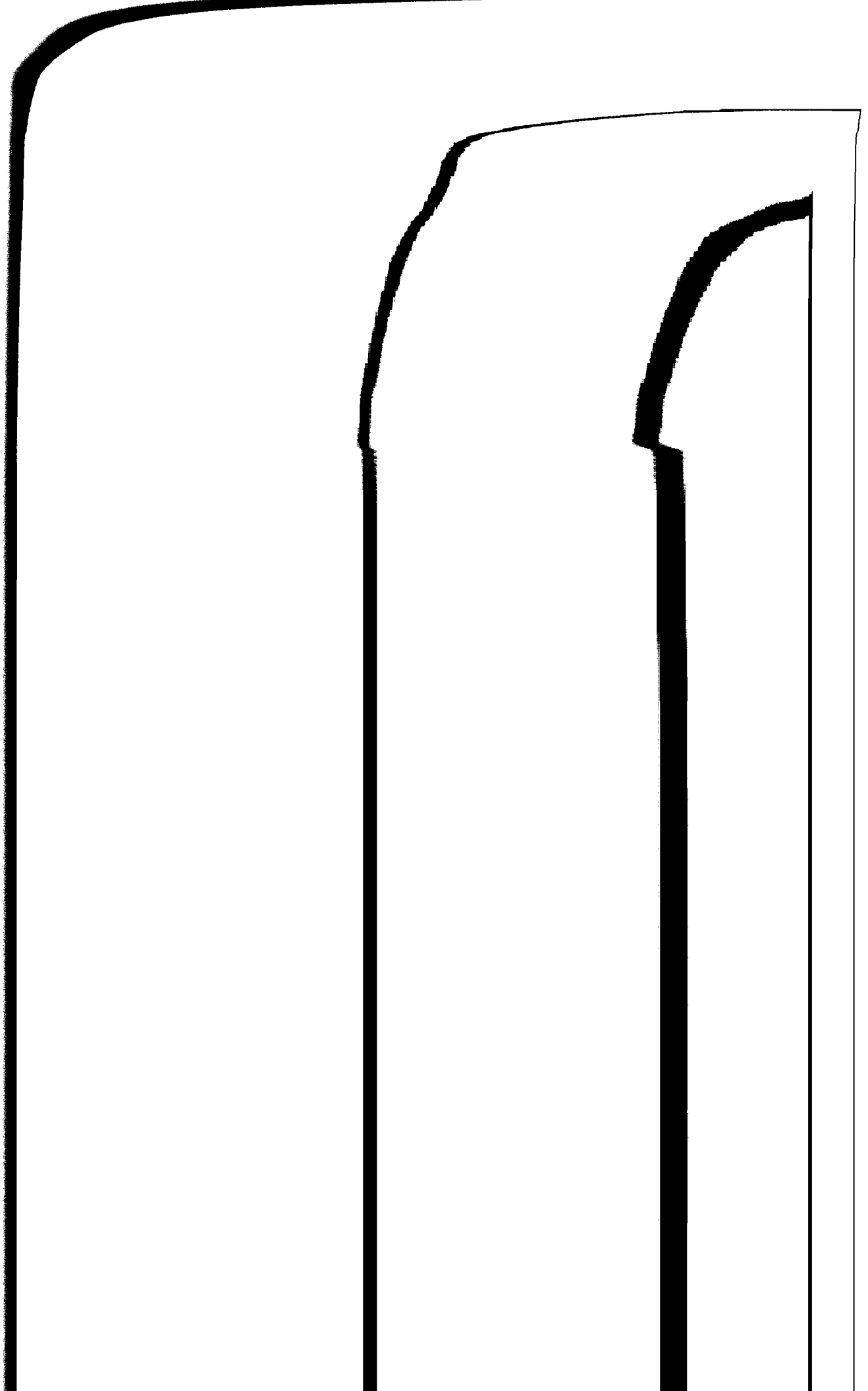
☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm



Tyree Organization, Limited Latham, NY

WELL LOG

BORING NAME: B8

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4') BLIND PROBE
1					
2					
3					
4					(4-8')
5					4-7.5': BROWN SILTY SAND, MOIST
6					
7		3.2			7.5-8: mf GRAVEL, WET
8					(8-12')
9					8-10: COARSE SAND AND mf GRAVEL
10		2.8			
11		2.5			10': 2" RED-ORANGE STAINING
12					10-12: BROWN SILTY CLAY AND GRAVEL.
13					
14					11': LARGE PIECE OF BLACK SHALE.
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:
Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B9

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion
0				
1				
2				
3				
4		3.5		
5				
6				
7		2.8		
8				
9				
10				
11				
12		3.3		
13				
14				
15				
16				
17				

Notes: ppm=parts per million, nd=not detected

Field Description of Soil

(0-4) BLIND PROBE

(4-8)
4-7: SILTY SAND, SOME GRAVEL.

7-8: mf GRAVEL

(8-12)
GRAVEL, WET

12': BROWN SILTY CLAY

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B10

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4') BLIND PROBE
1					
2					
3					
4					(4-8') SILTY SAND AND GRAVEL
5					8': SILTY GRAVEL
6					
7		2.4			(8-12')
8					8-9: SILTY f SAND, VERY MOIST TO WET
9		2.4			
10					9-11.5: SILTY f SAND AND ROUNDED GRAVEL
11					
12					11.5-12: BROWN SILTY CLAY WITH GRAVEL, BECOMING GRAY WITH DEPTH
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2¼"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:
Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited Latham, NY

WELL LOG

BORING NAME: B11

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4) BLIND PROBE
1					
2					
3					
4					(4-8) INTERLAYERED SILTY SAND AND GRAVEL AND COARSE SAND AND mf GRAVEL. WET AT 8'
5					
6					
7					
8		1.2			(8-12)
9					8-11: COARSE SAND AND mf GRAVEL
10					
11		2.1			11-12: BROWN SILTY CLAY AND GRAVEL
12					
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2¼"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:
Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B12

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/08/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion
0				
1				
2				
3				
4				
5				
6				
7		2.0		
8				
9				
10				
11		3.6		
12				
13				
14				
15				
16				
17				

Field Description of Soil

(0-4) BLIND PROBE

(4-8) BROWN COARSE SAND AND mf GRAVEL, VERY MOIST. WET AT 7'

(8-12)

8-11: COARSE SAND AND GRAVEL

11': 2" LAYER OF CRUSHED STONE

11-12: BROWN SILTY CLAY AND GRAVEL BECOMING GRAY

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2¼"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B13

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4) BLIND PROBE
1					
2					
3					
4					(4-8) BROWN SAND AND GRAVEL WET AT 7'
5					
6					
7		2.0			
8					(8-12) 8-10: COARSE SAND AND GRAVEL BROWN
9					
10		1.0			10-12: SILTY CLAY AND GRAVEL, BECOMING GREY
11					
12					
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:
Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited Latham, NY

WELL LOG

BORING NAME B/4

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4') BLINDPROBE
1					
2					
3					(4-8') SANDY GRAVEL WET AT 7'
4					
5					
6					
7		3.2			(8-12)
8					8-10: SANDY GRAVEL
9					10': LAYER (3") OF CRUSHED STONE
10		4.0			
11					10-12: BROWN SILTY CLAY and GRAVEL
12					
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table

f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B-15

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4') BLIND PROBE
1					
2					
3					
4					(4-8') SAND AND GRAVEL WET AT 7'
5					
6					
7		3.0			
8					(8-12') 8-10: SANDY GRAVEL
9					
10		4.2			10-12: SILTY CLAY AND GRAVEL
11					
12					
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2¼"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B16

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRYCLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion
0				
1				
2				
3				
4				
5				
6				
7				
8		3.4		
9		3.3		
10				
11				
12				
13				
14				
15				
16				
17				

Notes: ppm=parts per million, nd=not detected

Field Description of Soil

(0-4) BLINDPROBE

(4-8') BROWN COARSE SAND AND GRAVEL WET AT 8'

(8-12) 8-9.5' SANDY GRAVEL
9.5-12' BROWN SILTY CLAY AND GRAVEL, BECOMING GRAY.

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B17

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/8/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion
0				
1				
2				
3				
4				
5				
6				
7		1.9		
8				
9				
10				
11		33		
12				
13				
14				
15				
16				
17				

Notes: ppm=parts per million, nd=not detected

Field Description of Soil

(0-4) BLIND PROBE

(4-8) INTERLAYERED COARSE SAND AND mf GRAVEL; AND, SILTY SAND, SOME GRAVEL - WET AT 7'

NATURAL VARVING OBSERVED AT 8'

(8-12)

8-10: COARSE SAND AND mf GRAVEL

10': FRACTURED ROCK ZONE (2")

10-11': COARSE SAND AND mf GRAVEL

11-12': BROWN SILTY CLAY AND GRAVEL, MOIST (RED-ORANGE STAINING AT 11')

BORE HOLE DATA

Drilling Method: GEOPROBE
Hole Dia.: 2¼"
Depth: 12'

WELL DATA

Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK

Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL

Type:
Volume Used:
Interval:

WELL HEAD COMPLETION

Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT

Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B18

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/9/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4) BUND PROBE
1					
2					
3					
4					(4-8) BROWN SAND AND GRAVEL, WET
5		1.1			
6					
7					
8					(8-12) 8-10': COARSE SAND AND mf GRAVEL
9					
10		2.0			10': 2" LAYER CRUSHED STONE
11					
12					10-12: GREY CLAY, LITTLE SILT, TRACE GRAVEL.
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2¼'
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table

f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited Latham, NY

WELL LOG

BORING NAME B-19

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRYCLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/08/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4') BLIND PROBE
1					
2					
3					
4					(4-8') BROWN SANDY GRAVEL WET AT 6'
5					
6		3.7			
7					
8					(8-12) 8-9: SAME
9		3.0			9-12: BROWN CLAY, SOME SILT. BECOMING GRAY WITH DEPTH
10					
11					
12					
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B20

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRYCLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/9/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion
0				
1				
2				
3				
4				
5				
6		1.8		
7				
8				
9				
10				
11				
12				
13				
14		2.3		
15				
16				
17				

Notes: ppm=parts per million, nd=not detected

Field Description of Soil

(0-4') BLIND PROBE

(4-8')
4-6': SILTY SAND
6-8': SAND AND GRAVEL
WET AT 6'

(8-12')
mf GRAVEL, SOME COARSE SAND, WET.

(12-16')
12-14: SAND AND GRAVEL
14-16: TAN SILTY CLAY, TRACE GRAVEL VERY MOIST.

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 16'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited Latham, NY

WELL LOG

BORING NAME: B-21.

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRYCLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/9/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4') BLIND PROBE
1					
2					
3					(4-8') SAND AND GRAVEL WET AT 5'
4					
5		1.9			(8-12') mf GRAVEL, SOME COARSE SAND, WET
6					
7					
8					
9					(12-16') 12-14: SAME
10					
11					14-16: BROWN CLAYEY SILT, WET GRAY WITH DEPTH
12					
13					
14		2.0			
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2¼"
Depth: 16'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B-22

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRYCLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/9/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4') BLIND PROBE
1					
2					
3					(4-8') SANDY mf GRAVEL, WET
4					
5					(8-12') SANDY mf GRAVEL
6					
7					(14-18')
8					14-15: SAME
9					2" OF RED-BROWN STAINING AT 15'
10					
11					15-18: BROWN SILTY CLAY, TRACE GRAVEL
12					
13					
14					
15		2.3			
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 18'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B23

CLIENT: _____
PROJECT: _____
LOCATION: _____

DATE STARTED/COMPLETED: 3/9/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE.

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4') BLIND PROBE
1					
2					
3					
4					(4-8') SAND AND GRAVEL, WET.
5					
6					
7					
8					(8-12') 8-11: SAME
9					
10					11': 2" LAYER OF RED-BROWN STAINING
11		250			11-12: BROWN SILTY CLAY, TRACE GRAVEL.
12					
13					PETROLEUM ODORS AT 11'
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2¼"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.: _____
Riser Length: _____
Interval: _____

Screen Type: _____
Screen Dia.: _____
Screen Length: _____
Slot: _____
Interval: _____

FILTER PACK
Source: _____
Composition: _____
Volume Used: _____
Interval: _____

GROUT / SEAL
Type: _____
Volume Used: _____
Interval: _____

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size: _____
Concrete Pad: ☐ YES ☐ NO
Size: _____

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method: _____
Amt. Purged: _____
Date: _____

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B24

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/9/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion	Field Description of Soil
0					(0-4) BLIND PROBE
1					
2					
3					(4-8') SAND AND GRAVEL, WET
4					
5					
6					(8-12')
7					8-11: SAME
8					11-12: BROWN SILTY CLAY, TRACE GRAVEL
9					11': 2-4" FRACTURED ROCK
10					PETROLEUM ODORS AT 11'
11		165			
12					
13					
14					
15					
16					
17					

Notes: ppm=parts per million, nd=not detected

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B25

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRYCLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/9/00
LOGGED BY: J. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11		1.7		
12				
13				
14				
15				
16				
17				

Notes: ppm=parts per million, nd=not detected

Field Description of Soil

(0-4)
BLIND PROBE

(4-8)
SANDY mf GRAVEL, WET

(8-12)
8-11: SAME
11-12: SILTY CLAY, TRACE GRAVEL

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2¼"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

LEGEND

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm

Tyree Organization, Limited
Latham, NY

WELL LOG

BORING NAME: B26

CLIENT: NYSDEC
PROJECT: VALLEY FALLS DRY CLEANERS
LOCATION: VALLEY FALLS, NY

DATE STARTED/COMPLETED: 3/9/00
LOGGED BY: T. MURRAY
DRILLER: ZEBRA
RIG: GEOPROBE

Depth Below Grade	Sample Interval & Name	P.I.D. Reading (ppm)	Blow Counts/ Recovery (feet)	Well Completion
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11		10		
12				
13				
14				
15				
16				
17				

Notes: ppm=parts per million, nd=not detected

Field Description of Soil

(0-4')
BLIND PROBE

(4-8')
COARSE SAND AND mf GRAVEL, WET AT 5'

(8-12)
8-11 : SAME
11' : 2-3" OF FRACTURED ROCK
11-12 : SILTY CLAY, TRACE GRAVEL

BORE HOLE DATA
Drilling Method: GEOPROBE
Hole Dia.: 2 1/4"
Depth: 12'

WELL DATA
Riser Type: N/A
Riser Dia.:
Riser Length:
Interval:

Screen Type:
Screen Dia.:
Screen Length:
Slot:
Interval:

FILTER PACK
Source:
Composition:
Volume Used:
Interval:

GROUT / SEAL
Type:
Volume Used:
Interval:

WELL HEAD COMPLETION
Manhole: ☐ YES ☐ NO
Size:
Concrete Pad: ☐ YES ☐ NO
Size:

WELL DEVELOPMENT
Performed: ☐ YES ☐ NO
Method:
Amt. Purged:
Date:

Drawn by: J. Carr

☐ Native material
☐ Sand Pack
☐ Bentonite
☐ Portland Cement Grout

trace=1-10%
little=10-20%
some=20-30%
and=30-50%

LEGEND

very fine sand=0.6-0.13mm
fine sand=0.13-0.25mm
medium sand=0.25-0.50mm
coarse sand=0.5-1mm
very coarse sand=1-2mm

▽ = ground water table
f-gravel=2-4mm
m-gravel=4-64mm
c-gravel=64-256mm