ATTACHMENT 1

SOIL SAMPLING WORKPLAN

As identified in diagram 1, the work to be performed during the pilot study involved the following:

1) Excavating identified test pits and trenches;

2) Monitoring the area and trench during excavation;

3) Taking grab soil samples approximately every 15-20 feet along each trench (and one grab sample per test pit);

4) Putting the excavated soil back into the trenches; and

5) Performing a final area radiation survey.

A decision was made to start the excavation from the areas identified test pit 1, 2 and 3 and work toward trench C. All trenches and test pits were approximately 2 feet deep (unless field measurements indicated a need to go deeper) x 3 feet wide (1 bucket width). The length of the trenches varied based on location from between 60 feet to 100 feet.

The excavation of the trenches was performed in a systematic fashion in order to control contamination. The excavation team finished trench A and began to excavate trench B while the sampling team did the appropriate work on trench A (see Soil Sampling and Monitoring below).

After the sampling team completed trench A the excavation team backfilled the trench.

A similar approach was used on the other side of the site. First the test pits (4,5,6 and 7) were excavated and then the last trench was excavated.

After all the test pits and trenches were backfilled the excavation team collected aggregate stone from all excavation areas and put them in 55 gallon drums for temporary storage. At this point all personnel and equipment were decontaminated before leaving the site.

SOIL SAMPLING AND MONITORING

1) Removed soil was monitored with NaI survey meter to identify elevated levels;

2) The trench and/or test pits were monitored with NaI survey meter at depths of 12" and 24" at 15-20 foot intervals along the trench.

3) A 5 gallon grab sample of soil and debris was taken every 15-20 feet along the trench.

4) 5 gallon pails were transfered to the soil sample transfer area; 5 gallon pails were labelled as follows:

Three test pits -- TP -1, TP-2, and TP-3

lst trench -- A-1, A-2, ...

2nd trench - B-1, B-2, ...

3rd trench - C-1, C-2, ...

5) Five gallon field grab samples were used to prepare composite samples and small grab samples for gross alpha analysis.

PERIMETER AIR SAMPLING

1) Air samples were collected from the perimeter of the site as well as one air sample in the excavation area.

2) Coordination with field personnel was necessary to obtain the 1 air sample in the exclusion zone.

BZA SAMPLES

1) Five breathing zone air samplers were issued to identified field personnel.

Health and Safety Survey and Data

In accordance with the health and safety plan and the work plan, various surveys were conducted to assess exposure conditions. These included the use of personnel dosimetry, breathing zone air sampling, general area air sampling, perimeter air sampling, and bioassay.

Personnel dosimetry consisting of Thermoluminescent dosimeters and self reading pocket dosimeters were issued to all personnel involved in the pilot study. Record keeping of personnel dosimetry is the responsibility of Texas Instruments as required by their license (SNM-23). As expected the results of the personnel dosimetry indicated no measurable exposures since the dose rates as measured in field were very small. (Appendix A-1)

Air sampling was performed to assess boundary, general area, and personnel exposures. The general area air samples (Appendix A-2) were evaluated in the field initially (approximately 1 hour post work initiation). The time (1 hr), flow rate (22 lpm), background count, were such that the minimum detectable concentration was at the non-occupational Maximum Permissible Concentration (MPC). Discrimination for radon progeny was achieved via a conservative two count technique. All air samples showed concentrations which were less than the Minimum Detectable Activity (MDA). As a result, the boundary and general area air sampling were allowed to run for the remaining time of work conduct. The two perimeter air samples was found not to be running (during time of collection) due to a ground fault interrupter trip. However, since the general area air sampler which was located in close proximity of the actual intrusion showed no indication of airborne radioactivity, it would be reasonable to assume that the perimeter would likewise indicate the same. All air samples were later analyzed for alpha and beta activity using a gas flow proportional counter at a time post sampling that was long in order to allow the radon progeny to decay. These sample results indicated less than MDA concentrations. Personnel air sampling was performed with the use of 2 lpm Breathing Zone Air (BZA) sampling devices. These samplers were allowed to run during the entire work phase to assess potential individual intakes. In all cases but one, the activity on the BZA filters were less than MDA which corresponds to an intake of less than 2.5 E-2 MPC-h and the single positive result corresponded to an intake estimate of 4.1 E-2 MPC-h (Appendix A-3). It should be noted that any MPC-h value less than 2 MPC-h is not recordable. (Code of Federal Regulations Chapter 10 Part 20)

Bioassay samples were required for all principals in accordance with the Health and Safety Plan. These bioassay samples included baseline and post work samples. The samples were urine samples which were analyzed for uranium via flourometric techniques. The results were not available for this report. However, based on air sampling data it is anticipated that the urinalysis results will be within baseline levels.

Field Survey and Soil Analyses

Sampling was performed from each test pit and along each trench as depicted within Diagram 1. General area surveys of the pits and trenches were performed at 0, -1', and -2' elevations in an attempt to correlate anomaly data of ORAU to actual excavation. This data (Appendix B-1) does demonstrate elevated levels in the suspected areas and confirms the choice of locations for pilot excavation.

Soil samples were obtained from each test pit and at 15-20' intervals along each trench. The sample volumes were approximately 4 gallons, collected in 5 gallon containers. From each of these containers 1 liter samples were extracted and composites generated. The composite samples were as follows: 1) Composite 1 - Test pits 1, 2, 3 and trench A; 2) Composite 2 - Trench B and C; 3) Composite 3 - Trench D and Test pits 4, 5, 6, and 7; and 4) Composite 4 - A sample from trench d which demonstrated a much higher direct reading than any other area and presumably would represent worst case. Each of these samples were sent to Lockheed Analytical Laboratories (LAL) (appendix B-2) for contract analyses of isotopic uranium and thorium. In addition, each sample from the 1 liter containers along with the composites and special composites of trench b and c were analyzed using a gross alpha screening technique (Appendix B-3) to ascertain spatial variations within the trench. A comparison of the LAL data and the gross alpha screening technique was made and demonstrated good correlation amongst the data.

The LAL data represents a range of values in isotopic abundances. Of particular interest is the data which represents the special sample out of trench D. This sample was composed of a finer texture, and a color (grayish) composition that differed from the surrounding soil and contained debris in the appearance of small machining fines. In addition, the location of this area was identified by elevated direct radiation levels identified by ORAU and CPS at the surface and at depth by CPS. This particular location indicated a depth in excess of 3 feet although a maximum depth was not determined at this time.

Correlation between the LAL data and the gross alpha screening method was made. In addition to the composites, averages of the gross alpha data for each corresponding composite sample was made. This data (Appendix B-4) is in good agreement and demonstrates this method as a viable technique to quickly determine the extent of soil contamination. This method can be readily demonstrated to be a practical field analyses technique. We have also undergone preliminary correlation of the soil data to "pancake" G-M response and can demonstrate the ability to detect samples containing >100 pCi/g of uranium in soil as a first pass method in actual remediation. This correlation will be developed further.

Diagram 1
Pilot Survey Site Layout

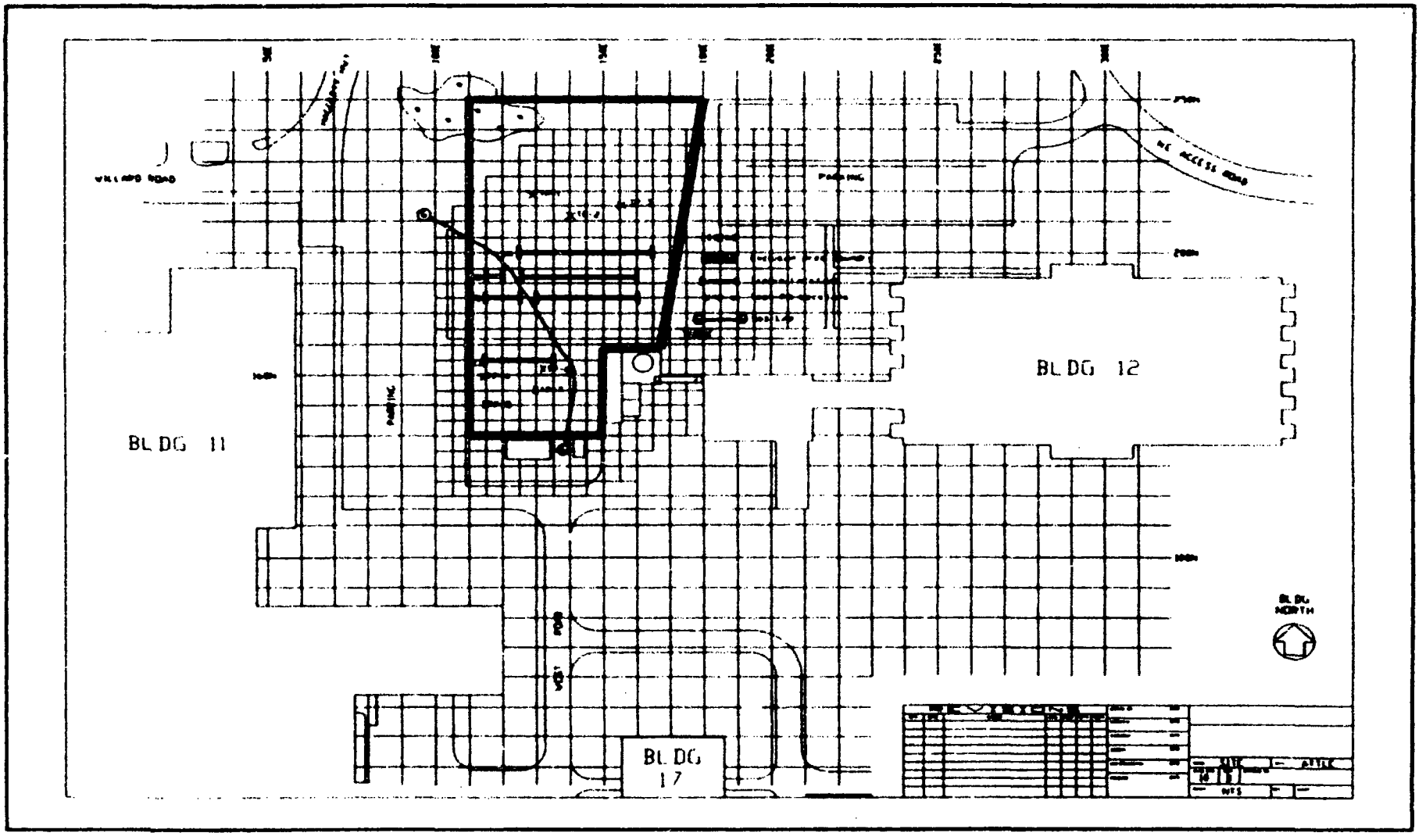
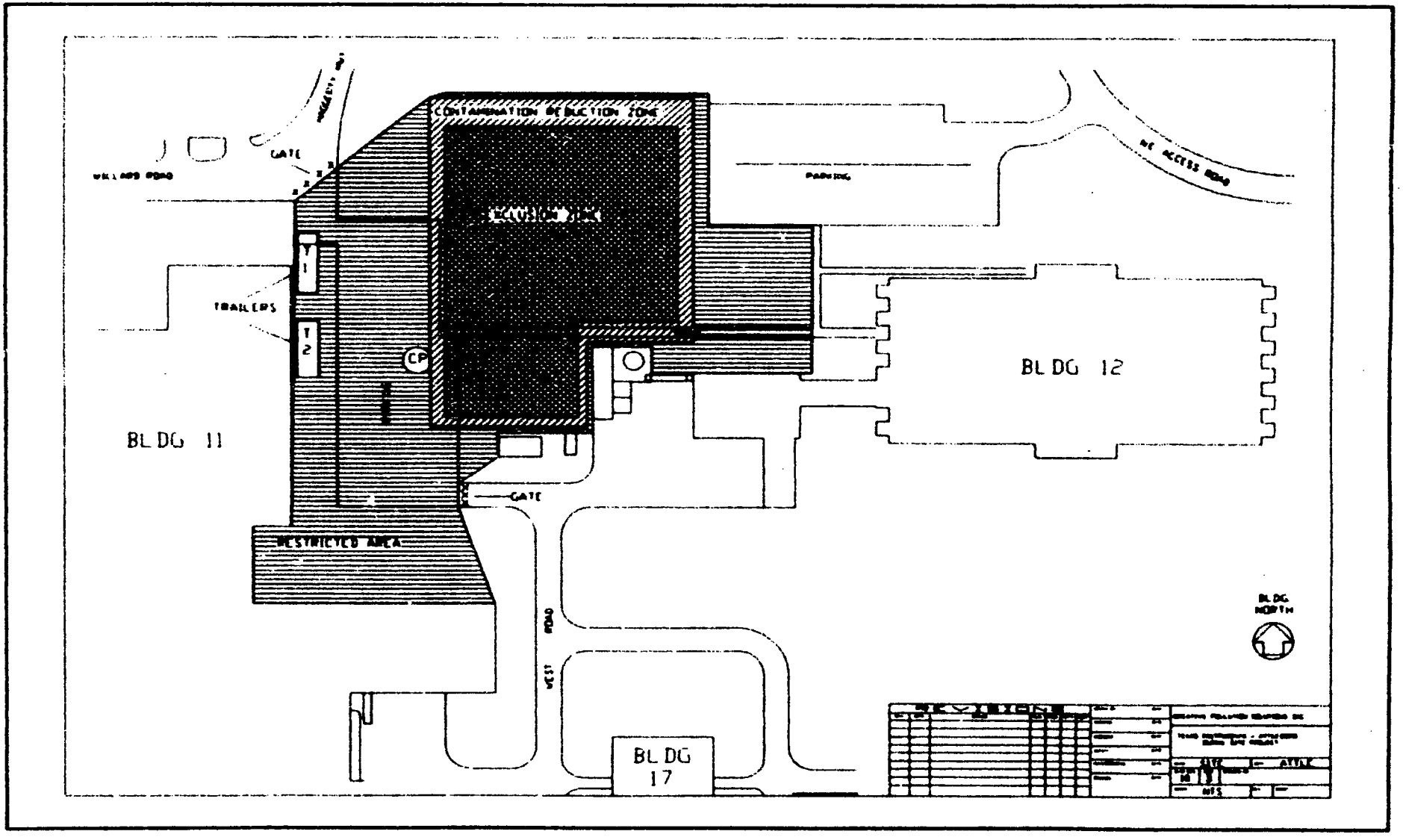


Diagram 2
Control Zone Layout



Appendix A-1

Peronnel Dosimetry Issuance and Data

TLD ISSUANCE

Date: 6/7/92

NAME	BADGE #	TOTAL DOSE
L. Branco	99004	Minimal
Mike England	99012	Minimal
Lee Mulligan	99013	Minimal
Bob Smith	99001	Minimal
Steve Ayotte	99002	Minimal
Steve Duquette	99009	Minimal
Don Goddard	99005	Minimal
Alan Cornell	99014	Minimal
Rich Moniz	99008 (blue)	Minimal
Al Brown	99016	Minimal
Marcia Austin	99008 (black)	Minimal
Jay Malcolm	99005	Minimal
Fred McWilliams	99006	Minimal
Mark Chartier	99005 June	Minimal
Werner Schuele	99016 June	Minimal
Mark Griffon	99007 June	Minimal
Mike Elliott	99009 June	Minimal
Mark Henault	99010 June	Minimal
Frank Veale	99015 June	Minimal
Rich Derby	99011 June	Minimal
Ray Lizotte	99013 June	Minimal

Note: Minimal is defined as an exposure less than 10 mrem.

POCKET DOSIMETER RECORDS

NAME	BADGE #	READING IN (mrem)	READING OUT (mrem)
L. Bianco	9010179	0	-5
M. England	9010180	2	0
Allen Brown	9010182	0	-2
Lee Mulligan	9010183	0	-5
Bob Smith	9010184	0	-5
Steve Ayotte	9010198	0	-5
Steve Duquette	9010199	2	0
Don Goddard	9010201	0	0
Alan Cornell	9010203	1	-5
Rich Moniz	0122533	1	2
Jay Malcolm	0122534	-5	0
Mark Chartier	0122535	0	2
Marcia Austin	0122538	2	5
Werner Schuele	0122539	3	8
Mike Elliott	0122540	0	0
Mark Henault	0122544	2	2
Frnak Veale	0122545	3	5
Fred McWilliams	0122549	2	2
Mark Griffon	0122548	0	2
Rich Derby	0122574	0	-5
Ray Lizotte	0122569	2	8

Appendix A-2

General Area Air Sampling

GENERAL AREA AIR SAMPLING LOCATION AND DESCRIPTION

Rotary vane type air sampling pumps were used to provide continuous boundary and general area air sampling. These air samples provide an estimate of boundary conditions and general area hazards created during intrusion of the affected areas. Each air sampler was calibrated to a flow of 22 lpm and a restrictive orifice on the pump system maintained continuous flow. The air sampling heads were 2 inch open face type. The filter media used was a standard glass fiber media with retention of 99.97%. At each location designated for air sampling, the air sampling pump was positioned so that the air sampling pump was at an elevation of approximately 5 feet representing the breathing zone. Each air sampler was protected with a ground fault interrupter due to wet conditions encountered within the field.

The location of air sampling systems were as follows (refer to attached diagram):

LocationDescription

Perimeter 1At side walk intersection near building 12

Perimeter 2Between Flag pole and building 12 parking lot on line with side walk described in perimeter 1 location.

Control PointLocated at control point (see health and safety plan) on right side of side walk at the edge of parking lot.

Field - General AreaVarious locations: 1.Between test pits 1, 2, & 3 and Trench A,

2.Between Trench B and C

3.Between Trench C and the sidewalk.

AIR SAMPLING ANALYSIS

Analysis of air samples was performed initially in field to ascertain any immediate hazards and then later in laboratory to quantify total activity concentrations.

Field analysis was performed using a Ludlum 2200 scaler coupled to a Ludlum 43-10 sample probe capable of detecting both alpha and beta radiations. Field calibrations were performed.

Table 1

Field Calibration Data

Alpha Background:	0	c/m
Beta Background:	126	c/m
Alpha Efficiency:	0.17	c/d
Beta Efficiency:	0.228	c/d

Since environmental radon particulate progeny produces interferences in counting, it is necessary to develop a method to discriminate against these and still ascertain airborne activity quickly. In this case, a two count method was used where the initial count is followed by a second count 35 minutes later. Here it is presumed that the effective half life of radon progeny is 35 minutes. Therefore, the long lived alpha activity is given by;

$$A_L = 2\,(A_{35}) - A_0$$

Where:
- A_L is the long lived alpha activity,
- A_{35} is the activity based on the count 35 minutes post initial count, and
- A_0 is the activity based on the initial count.

Field assessment was based on airborne activity using the initial count and the alpha to beta count ratio to obtain qualitative information on the extent of radon progeny. Subsequent counts 35 minutes later was used to better quantify the airborne alpha activity. Later all samples were taken to a laboratory for more accurate analysis once the radon progeny had decayed. The two count method in field and counting within the laboratory indicated all activity to be less than the minimal detectable activity (MDA).

The minimum detectable activity is can be developed as follows:

$$LLD = \frac{k^2}{2} + 2\sqrt{2}k\sigma_b$$

Where:
- LLD is the lower limit of detection
- K is the defined for a 95% confidence interval of a one tail test and is equal to 1.65, and
- σ_b is the standard deviation in the background count.

$$MDA = \frac{1}{\epsilon T}(LLD)$$

Where: MDA is the minimum detectable activity and
ϵ is the efficiency, and
T is the counting time.

$$MDC = \frac{MDA}{V}$$

Where: MDC is the minimum detectable concentration and
V is the volume of air sampled.

For field analysis the minimum detectable concentration was determined to be < 5.5E-13 μCi cc^{-1} for a one hour sample period as was performed initially and < 6.8E-14 μCi cc^{-1} for an 8 hour sample as performed subsequently. Sample analysis in the laboratory used increased count times and had a better efficiency given rise to a MDC of < 5.3 E-14 μCi cc^{-1} and < 6.6 E-15 μCi cc^{-1} for 1 and 8 hour sampling times respectfully.

Appendix A-3

Breathing Zone Air Sampling

BREATHING ZONE AIR SAMPLING

Breathing zone air samplers were assigned to identified site personnel. These air samplers provide better estimates of actual intakes due to local generated sources than would general area air sampling. Hence estimates of intakes are best made on the basis of BZA data rather than on the general area air sampling program. Interpretation of BZA results is on the basis of comparing activity deposition on the filter as compared to the intake retention function (IRF) which the BZA represents. Hence, an estimate of the exposure an individual receives based on BZA data can be given as follows:

$$E = I\left(\frac{2000 MPC\text{-}h}{AIL}\right)$$

Where: E is the exposure (MPC-h),
I is the intake corresponding to the exposure, E,
AIL is the annual intake limit based on a continuous exposure to 2000 MPC-h in any year of practice, and
MPC is the maximum permissible concentration as defined under 10CFR20.

The intake can be represented by the ratio of the activity deposition and the intake retention function as follows:

$$I = \frac{A}{IRF}$$

Where: A is the activity deposited on the filter and all other variables are as previously defined.

The intake retention function defined here for a BZA is simply the Flow rate of the BZA (F_{BZA}) as compared to the breathing rate of reference man (F_{RM}). In the case depicted here the IRF can be written as follows:

$$IRF = \frac{F_{BZA}}{F_{RM}}$$

Substituting the various equations yields the following relationship for exposure:

$$E = \left(\frac{A}{AIL}\right)\left(\frac{F_{RM}}{F_{BZA}}\right)(2000 MPC\text{-}h)$$

The reference man breathing rate is 20 lpm; the breathing zone air samplers were calibrated to 2 lpm; the activity is the activity on the filter; and the annual intake limit is based on reference man inhaled volume (2.5E9 ml) in a occupational year and the MPC (the value of MPC is for the insoluble case) as follows:

Nuclide	AIL (μCi)
^{235}U	0.25
^{238}U	0.25

Substituting all appropriate values the preceding equation becomes:

$$E(MPC\text{-}h) = 8E4 * A$$

Each BZA was calibrated prior to issuance and allowed to run during the entire work evolution. Each filter (absolute) was analyzed on a gas flow proportional counter for total alpha and beta activity. In 4 of 5 cases the alpha and beta a ctivity was reported at the Minimum Detectable Activity as 3.5 E-7 μCi. This corresponds to intakes at < 2.8E-2 MPC-hr. The fifth sample indicated alpha activity of 5.14E-7 with a corresponding exposure of 4.1E-2 MPC-h. It should be noted that the any MPC-h value less than 2 MPC-h is not recordable. (Code of Federal Regulations Chapter 10 Part 20)

BZA Calibration Data

BZA Sampling Pump: Gillian High Flow Sampler Model # HFS113A, P/N D80070
Calibrator: Buck Calibrator (20cc/m - 6 lpm) Gilian Instrument Corp., P/N D800286
Calibration Date: June 6, 1992

S/N:	9360	9366	9365	9359	9364
ID	H-2	N/A	H-7	H-1	H-6
Trial #					
1	2.014	2.013	2.001	2.013	2.070
2	2.014	2.052	2.005	1.999	2.069
3	2.027	2.040	2.000	2.000	2.068
4	2.013	2.040	2.010	1.997	2.070
5	2.018	2.043	1.999	2.001	2.079
6	2.021	2.041	2.001	2.009	2.073
mean	2.018	2.038	2.003	2.003	2.072
S.D.	0.005	0.013	0.004	0.006	0.004

Note: All Flow rates are expressed in lpm.

BZA Issuance Information

Name	Company	BZA ID
Brown, Al	Texas Instruments	H-2
Bianco, Lou	Franklin Environmental	9366
Mulligan, Lee	Franklin Environmental	H-7
Austin, Marcia	CPS, Inc.	H-6
England, Mike	Franklin Environmental	H-1

BZA Counting Data

Counting System: NMC PC-5 for alpha counting, NMC DS-3 for Beta counting
Count Date: 6/9/92
Backgroung Count Time: 5 min.
Sample Count Time: 5 min
Alpha Efficiency: 0.35 c/d
Beta Efficiency: 0.28 c/d
Background Counts, Beta: 168 cts
Background Counts, Alpha: 0

BZA #	9366	H-1	H-2	H-6	H-7
Sample Counts, Alpha:	0	0	0	0	2
Net Counts, Alpha:	0	0	0	0	2
Net Counting Rate, Alpha:	0	0	0	0	0.4
Activity, Alpha (μCi):	< mda	< mda	< mda	< mda	5.1E-7
Sample Counts, Beta:	175	176	158	169	173
Net Sample Counts, Beta:	35	10	0	1	5
Net Counting Rate, Beta:	1.4	2	0	0.2	1
Activity, Beta (μCi):	< mda	< mda	< mda	< mda	< mda
Exposure (MPC-h):	< 2.5 E-2	< 2.5E-2	< 2.5 E-2	< 2.5E-2	4.1E-2

APPENDIX B-1

DIRECT RADIATION READINGS OF TRENCH AND TEST PITS AT VARIOUS ELEVATIONS

TRENCH SURVEY RESULTS

(All survey readings performed with the NaI 1x1 survey meter)
All readings in μR/hr

SAMPLE LOCATION	SURFACE	12"	24"	EXC. DIRT
B-1	13	17	20	14
B-2	13	13.5	13.5	12
B-3	12	12.5	14	12
B-4	13	14	14.5	12.5
B-5	13	13	13	12
B-6	12	13	14.5	12
B-7	12	12	15	12
B-8	12	13	14.5	12
C-1	11	13	15	12
C-2	14	16	17	12
C-3	17	20	25	15
C-4	15	19	20	16
C-5	15	15	20	15
C-6	13	13	16	14
C-7	17	17	18	13
C-8	13	15	17	12
C-9	13	15	16	13

SAMPLE LOCATION	SURFACE	12"	24"	EXC. DIRT	
TP-4	20	25	25	30	
TP-5	12	13	14	11	
TP-6	12	12	13	12	
TP-7	11	13	10	12	
D-1	11	13	14		
D-2	12	14	16		
D-3	10.5	12	13		
D-4	11	12	12		
D-5	14	14	14		
D-6	20	25	25	*D Special Sample	
D-7	12	12	12		
D-8	12	12	13		

APPENDIX B-2

LOCKHEED ANALYTICAL LABORATORY RESULTS

TEX-INST-....06102

Sample Preparation and Screening.

The samples consisted of wet soil and gravel. The samples were dried at 103°C overnight, sieved through a 4 mm sieve to remove gravel and other large particles. Composite numbers 1-3 showed little or no activity on the material on the top of the 4 mm screen. The material which was sieved through the 4 mm sieve was used for analysis. Composite Number 4 was sieved in the same manner. Metal turnings and shavings were evident in the material on the top of the 4 mm sieve. The metal shavings exhibited a significant portion of the activity of the sample. The metal shavings were added back to the sieved sample in the same ratio as they were taken out. As composite number 4 was obviously not homogeneous, duplicate aliquots of this sample were prepared for dissolution with the sample size doubled to help achieve a representative sub-sample for analysis. An aliquot of the dissolved material was taken for analysis. All results are reported on a dry weight basis.

Total Uranium Analysis.

There were no problems with the total uranium analysis. All QC met criteria.

Thorium isotopic Analysis.

Two different aliquot sizes were taken for Thorium analysis on the composite four sample. The larger sample size resulted in an unacceptable sample to spike ratio and the data is unacceptable. The data reported is on the smaller sample portion as the spike to sample was in the acceptable range. The blank showed a small amount of natural thorium contamination, which is not significant for the thorium levels determined in the samples. The Laboratory Control Sample and the Duplicate samples were within acceptance criteria.

Uranium Isotopic Analysis.

The Uranium analysis were repeated. The yeilds on the repeat samples were in the acceptable range except for the Composite four sample. The composite four sample was analyzed in duplicate. The duplicate results for the composite four sample are within the acceptance limits. The blank showed a trace of natural uranium contamination, which is usual for smaples which require dissolution with mineral acids. The amount of background uranium present is not significant in comparison to the amount of uranium determined in the samples. The LCS is within QC limits.

Job Report for: TEX-INST-....06102

[redacted]ent Sample ID: COMPOSITE #1
Date Collected: 07-JUN-92
Matrix: SOIL

LAL Sample ID: A25476
Date Received: 10-JUN-92
Job Name: TEX-INST-....06102

Constituent	Batch	Activity	Estimated Uncertainty	MDA	Data Qual	Units
Gamma Spec. Analysi	R0064_8	0.0	0.0	0.0		pCi/g
U-234	R0108_2	11	0.15	0.014		pCi/g
U-235	R0108_2	0.91	0.042	0.005		pCi/L
U-238	R0108_2	4.3	0.090	0.018		pCi/g
Th-228	R0108_2	1.3	0.050	0.030		pCi/g
Th-230	R0108_2	1.6	0.050	0.005		pCi/g
Th-232	R0108_2	1.1	0.040	0.010		pCi/g
Uranium	R0168_10	9.1	0.31	0.097		ug/g

Comments on Data Qualifiers:

[redacted]

[redacted]

Client Sample ID: COMPOSITE #2
Date Collected: 07-JUN-92
Matrix: SOIL

LAL Sample ID: A25477
Date Received: 10-JUN-92
Job Name: TEX-INST-....061

Constituent	Batch	Activity	Estimated Uncertainty	MDA	Data Qual	Units
Gamma Spec. Analysi	R0064_8	0.0	0.0	0.0		pCi/g
U-234	R0108_2	20	0.23	0.019		pCi/g
U-235	R0108_2	1.6	0.064	0.019		pCi/g
U-238	R0108_2	7.0	0.13	0.007		pCi/g
Th-228	R0108_2	0.90	0.043	0.033		pCi/L
Th-230	R0108_2	1.2	0.050	0.020		pCi/g
Th-232	R0108_2	0.69	0.040	0.010		pCi/L
Uranium	R0168_10	14	0.47	0.099		ug/g

Comments on Data Qualifiers:

Client Sample ID: COMPOSITE #3
Date Collected: 07-JUN-92
Matrix: SOIL

LAL Sample ID: A25478
Date Received: 10-JUN-92
Job Name: TBX-INST-....06102

Constituent	Batch	Activity	Estimated Uncertainty	MDA	Data Qual	Units
Gamma Spec. Analysi	R0064_8	0.0	0.0	0.0		pCi/g
U-234	R0108_2	16	0.32	0.017		pCi/g
U-235	R0108_2	1.8	0.11	0.046		pCi/g
U-238	R0108_2	32	0.45	0.017		pCi/g
Th-228	R0108_2	1.5	0.070	0.030		pCi/g
Th-230	R0108_2	1.7	0.070	0.020		pCi/g
Th-232	R0108_2	1.8	0.070	0.030		pCi/g
Uranium	R0168_10	55	1.9	0.099		ug/g

Comments on Data Qualifiers:

lient Sample ID: COMPOSITE #4 LAL Sample ID: A25479
ate Collected: 07-JUN-92 Date Received: 10-JUN-92
atrix: SOIL Job Name: TEX-INST-....06102

Constituent	Batch	Activity	Estimated Uncertainty	MDA	Data Qual	Units
amma Spec. Analysi	R0064_8	0.0	0.0	0.0		pCi/g
-234	R0108_2	1100	26.	1.7		pCi/g
-235	R0108_2	79	7.0	1.7		pCi/g
-238	R0108_2	3200	45.	1.7		pCi/g
-228	R0108_2	110	2.6	0.70		pCi/g
-230	R0108_2	4.8	0.55	0.45		pCi/g
-232	R0108_2	110	2.6	0.20		pCi/g
ranium	R0160_10	800	27.	0.36		ug/g

omments on Data Qualifiers:

RADIOCHEMICAL QC DATA SUMMARY

TEX-INST-....06102

Reagent Blank Analysis

Analyte	Batch ID	Minimum Detectable Activity pCi/g	Acceptance Limit pCi/g	Date Analyzed	Reagent Blank Result pCi/g
Radium-226					
U-234	R0108_2	.012	0.6	6-18-92	0.4
U-238	R0108_2	0.005	0.6	6-18-91	0.08
Th-232	R0108_2	0.004	0.1	6-18-92	0.000
U-Total µg/g	R0168_10	0.1	0.1	6-13-92	0.009

Duplicate Sample Analysis

Analyte	Batch ID	Client Sample ID	LAL Sample ID	Date Analyzed	QC Sample Analyses			
					Sample Result pCi/L	Duplicate Result pCi/L	Relative Percent Difference (%)	Data Qualifier
Ra-226								
U-234	R0108_2	Comp 4	A25479	6-18-92	1120	967	14	
U-238	R0108_2	Comp 4	A25479	6-18-92	3210	2780	13	
Th-232	R0108_2	Comp 4	A25479	6-18-92	112	108	4	
U-Total µg/g	R0168_10	Comp 4	A25479	6-18-92	802	740	8	

Laboratory Control Sample

Analyte	Batch	Date Analyzed	QC Sample Analyses			
			Laboratory Control Sample Result pCi/L	Laboratory Control Sample Value pCi/L	(%) Recovery	Data Qualifier
Ra-226						
U-234	R0108_2	6-18-92	5.55	5.4	103	
U-235	R0108_2	6-18-92	5.50	5.40	102	
Th-232	R0108_2	6-18-92	5.31	5.45	97	
U-total µg/g	R0168_10	6-13-92	34	36.6	93	

APPENDIX B-3

GROSS ALPHA SCREENING PROCEDURES AND RESULTS

APPENDIX B-3

GROSS ALPHA COUNTING PROCEDURES AND RESULTS

FIELD METHOD

The gross alpha counting technique will be used to limit volumes of soil excavated for disposition. As excavation is performed, in defined areas, soil samples will be collected and analyzed in a field laboratory. The purpose of this screening is to ensure that each area is below the 30 pCi/g level.

In addition, this technique can be used for the post excavation survey. The same counting technique will apply. The samples, in this case, will be vertical composites taken at all grid locations and at the center of each grid. Confirmatory uranium isotopic analysis will be performed on 5% of the total samples.

This gross alpha counting technique was used during the pilot study at Texas Instruments Incorporated and the results correlated very well with the isotopic uranium analysis performed by Lockheed.

INSTRUMENTATION

The technique employed was a gross alpha counting of a soil sample in intimate contact with a ZnS(Ag) detector. Using this method the ZnS(Ag) disc is disposable.

Assuming a detector response due to a thick source in contact with ZnS(Ag) is described by:

$$y(cpm) = C(Alpha/min/mg)\ A\ (cm^2)\ R_s\ (mg/cm^2)\ /4.$$

(Skrable, K.W., Phoenix, K.A. , "Theoretical Response of a ZnS(Ag) Scintillation Detector to α-emitting sources and Suggested Applications", Health Physics, Vol. 60, No. 1991)

SAMPLE COUNTING

The analytical procedure is as follows:

1) The sample is prepared in a sample planchet under original field condition.

2) The range of the alphas in source material, R_s, was calculated using Zeigler's theoretical elemental ranges. The elemental ranges were weighted by the elemental mass fractions as determined for a standard soil by atomic absorption analysis.

3) Since the relative alpha energies were varied, we assumed an average energy of 5.5 MeV. The average energy of all alphas emitted by the U-238 chain is about 5.4 MeV, the average alpha energy for the Th-232 chain is about 5.8 MeV.

4) The water content was estimated by drying an aliquot of representative samples 1-2 days at 50-75° C. Due to past experience, dry soil was assumed to still have 10% water content. Both this 10% and the fraction lost during drying were included in the mass fractions for hydrogen and oxygen used in (2) above.

5) Uncertainties tabulated with the results are due solely to propagated counting error. Due to the assumptions made, especially in (3) above, an additional uncertainty could be assumed as a conservative measure.

Texas Instruments Incorporated, Attleboro, MA
Gross Alpha Screening Results

Sample Count Time (min): 45
Background Rate (cpm): 0.02688
Area (cm2): 20.3
Bkg Time (min): 930

Sample ID	Wet Sample Mass (gm)	Dry Sample Mass (gm)	Frac. H2O Content	Theor. Range (mg/cm2)	Gross Alpha Counts	+/- 1 Sigma	Total Spec. Alpha Act. (pCi/gm) Activity	+/- 1 Sigma	MDA (pCi/gm)
TP-1	12.274	10.871	0.114	5.401	32	+/- 5.66	11.24	+/- 2.07	0.0015
TP-2	10.018	8.513	0.150	5.342	45	+/- 6.71	16.17	+/- 2.48	0.0015
TP-3	14.33	12.224	0.147	5.347	48	+/- 6.93	17.26	+/- 2.56	0.0015
A-1	12.754	11.256	0.117	5.396	26	+/- 5.10	9.06	+/- 1.87	0.0015
A-2	12.54	10.845	0.135	5.366	29	+/- 5.39	10.21	+/- 1.98	0.0015
A-3	14.222	12.775	0.102	5.422	57	+/- 7.55	20.30	+/- 2.75	0.0015
A-4	15.96	14.693	0.079	5.459	76	+/- 8.72	27.02	+/- 3.15	0.0015
A-5	15.78	14.283	0.095	5.433	46	+/- 6.78	16.26	+/- 2.46	0.0015
A-6	13.806	11.776	0.147	5.347	40	+/- 6.32	14.31	+/- 2.33	0.0015
A-7	13.427	11.857	0.117	5.396	124	+/- 11.14	44.68	+/- 4.07	0.0015
Special-2	15.301	13.262	0.133	5.370	9120	+/- 95.50	3349.61	+/- 35.08	0.0015
EXP-B	14.726	12.912	0.123	5.386	46	+/- 6.78	16.40	+/- 2.49	0.0015
EXP-C	17.321	15.584	0.100	5.424	142	+/- 11.92	51.20	+/- 4.33	0.0015
C-1	15.266	13.941	0.087	5.447	235	+/- 15.33	84.66	+/- 5.55	0.0015
C-2	16.51	14.725	0.108	5.411	57	+/- 7.55	20.34	+/- 2.75	0.0015
C-3	13.986	12.255	0.124	5.385	215	+/- 14.66	78.30	+/- 5.37	0.0015
C-4	13.064	10.947	0.162	5.323	211	+/- 14.53	77.74	+/- 5.38	0.0015
C-5	15.665	14.655	0.064	5.485	80	+/- 8.94	28.34	+/- 3.22	0.0015
C-6	16.79	15.609	0.070	5.475	117	+/- 10.82	41.72	+/- 3.90	0.0015
C-7	16.798	15.287	0.090	5.441	181	+/- 13.45	65.17	+/- 4.88	0.0015
C-8	13.665	11.97	0.124	5.385	73	+/- 8.54	26.30	+/- 3.13	0.0015
C-9	16.436	14.643	0.109	5.409	223	+/- 14.93	80.87	+/- 5.45	0.0015

Texas Instruments Incorporated, Attleboro, MA
Gross Alpha Screening Results

Sample Count Time (min): 90
Background Rate (cpm): 0.02688
Area (cm2): 20.3
Bkg Time (min): 930

Sample ID	Wet Sample Mass (gm)	Dry Sample Mass (gm)	Frac. H2O Content	Theor. Range (mg/cm2)	Gross Alpha Counts	+/- 1 Sigma	Total Spec. Alpha Act. (pCi/gm) Activity	+/- 1 Sigma	MDA (pCi/g
B-1	13.297	12.308	0.074	5.468	48	+/- 6.93	8.22	+/- 1.25	0.0015
B-2	14.662	13.553	0.076	5.462	62	+/- 7.87	10.76	+/- 1.42	0.0015
B-3	14.355	12.484	0.130	5.374	94	+/- 9.70	16.81	+/- 1.78	0.0015
B-4	14.619	13.344	0.087	5.448	157	+/- 12.53	27.99	+/- 2.27	0.0015
B-5	13.987	11.466	0.180	5.294	49	+/- 7.00	8.68	+/- 1.31	0.0015
B-6	14.925	13.234	0.113	5.402	88	+/- 9.38	15.62	+/- 1.71	0.0015
B-7	13.288	11.744	0.116	5.398	84	+/- 9.17	14.91	+/- 1.68	0.0015
B-8	12.933	10.985	0.158	5.329	78	+/- 8.83	13.99	+/- 1.64	0.0015
TP-4	16.668	15.048	0.097	5.429	660	+/- 25.50	117.63	+/- 4.63	0.0015
TP-5	14.356	12.839	0.106	5.415	87	+/- 9.33	15.40	+/- 1.70	0.0015
TP-6	12.981	11.629	0.104	5.418	177	+/- 13.30	31.78	+/- 2.42	0.0015
TP-7	12.277	10.738	0.125	5.383	131	+/- 11.45	23.56	+/- 2.10	0.0015
D-1	16.525	15.258	0.077	5.464	81	+/- 9.00	14.18	+/- 1.63	0.0015
D-2	16.017	14.197	0.114	5.402	96	+/- 9.80	17.08	+/- 1.79	0.0015
D-3	14.474	12.86	0.112	5.405	130	+/- 11.40	23.28	+/- 2.08	0.0015
D-4	15.067	13.515	0.103	5.420	136	+/- 11.66	24.31	+/- 2.12	0.0015
D-5	15.375	14.011	0.089	5.444	69	+/- 8.31	12.06	+/- 1.51	0.0015
D-6	14.65	13.12	0.104	5.417	533	+/- 23.09	96.59	+/- 4.20	0.0015
D-7	15.868	14.048	0.116	5.398	153	+/- 12.37	27.51	+/- 2.26	0.0015
Special	17.34	15.381	0.114	5.401	17877	+/- 133.70	3263.79	+/- 24.41	0.0015

APPENDIX B-4

GROSS ALPHA SCREENING PROCEDURES AND RESULTS

COMPARATIVE ANALYSIS OF ALPHA SCREENING TECHNIQUE TO LOCKHEED ANALYTICAL LABORATORIES DATA

SAMPLE	GROSS ALPHA AVERAGES (pCi/g)	LAL TOTAL U ISOTOPES[a] (pCi/g)
Comp. 1	18.67+/- 10.6[b]	16.2
Comp. 2	33.8+/-24.6[c]	28.6
Comp. 3	36.67+/-35.64[d]	49.8
Comp. 4	3306+/-60[e]	4379
Exp. B	16.4[f]	
Exp. C	51.2[g]	
Avg. C	55.94+/- 26.5[h]	
Avg. B	14.62+/-6.28[i]	

a. The total pCi/g was obtained by summing the pCi/g for the U-234, U-235 and U-238.
b. Gross alpha number obtained by averaging TP-1, 2, 3 and trench A data. Error is in averaging only.
c. Gross alpha number obtained by averaging composite of trench B and composite of trench C refered to as EXP-B and EXP-C. Note a similar number is obtained by averaging all of the trench C and trench B data.
d. Gross alpha number obtained by averaging TP-4,5,6,7 and trench D data.
e. Gross alpha number obtained by averaging Special and Special 2.
f. Gross alpha obtained from a composite of the B trench.
g. Gross alpha obtained from a composite of the C trench.
h. Average of all the trench C data.
i. Average of all the trench B data.

Appendix H

Preliminary Cost Estimates of Various Remediation Options

Preliminary Cost Estimates of Various Remmediation Options for Texas Instruments Incorporated Attleboro, Massachusetts

Prepared by:
Creative Pollution Solutions, Inc
June 14, 1992

Options for Remediation of Identified Area of Contamination

The following are options by which the contaminated areas identified in the ORAU study can be remediated. In addition to the ORAU study the pilot excavation performed by Franklin Environmental Services and Creative Pollution Solutions, Inc. aided in estimating total cost for remediation of the identified area.

The data collected during the pilot excavation (Phase I) will be useful for cost estimation, development of the site remediation plan, and useful for cross reference with field measures to allow for field decision making. The data collected during phase I of this project included: trench relative exposure rate data, trench grab samples, and trench composite sample analysis performed at Lockhead Analytical Inc. This information will be presented in detail under separate cover.

The screening techniques employed were used as confirmatory measures, confirming the ORAU data, and may be used to modify the volume to be disposed. The gross alpha screening certainly confirm sample results in the ORAU report however, a correltation between gross alpha screening data and the Lockhead activity assays must be established to further estimate radionuclide concentrations in identified areas of each trench.

As identified in this report several options are available to Texas Instruments Incorporated. One of the options makes the assumption that the areas near trench A and trench B do not have to be remediated, except for isolated locations. This assumption may be supported by the analysis being performed by Lockhead.

The general approach of each option would be as follows:

- Excavation of the soil using conventional excavation equipment
- Screening of excavated soil primarily for volume reduction
- Monitoring of the debris for contamination
- Loading of the soil into roll-off containers
- Compaction of the soil
- Decontamination of the roll-off containers for transport
- Transport by truck to rail, then by rail to waste disposal site

Option 1

This option would be to fully characterize all property at the Attleboro facility. Based upon this characterization a remediation of the site property would be detailed and a cost estimate provided. The scope of this work is extensive and is not considered further for the purposes of this aggreement. However, Texas Instruments Incorporated may wish to consider full site characterization.

Option 2

Assumptions:

1) Clean-up all areas with U-235 > 0.34 pCi/gram (background concentrations found by the ORAU study.

2) Surface contamination (as identified in the ORAU report) removed to a depth of 0.3 meters.

3) Areas identified by ORAU boarings removed to a depth of 1.0 meter.

4) Volume calculated equals volume disposed of based on re-compaction upon packaging.

5) Small grids (5 meters x 5 meters), large grids (10 meters x 10 meters).

6) Disposal cost @ $33/ft^3.

Volume Estimate: (see Figure 1)

- Area of contamination to 1 meter depth =

  5 x 5 x 1 x 14 locations = 350 m^3

- Area of surface contamination to surface (0.3 meters)

  5 x 5 x 0.3 x 68 locations = 510 m^3

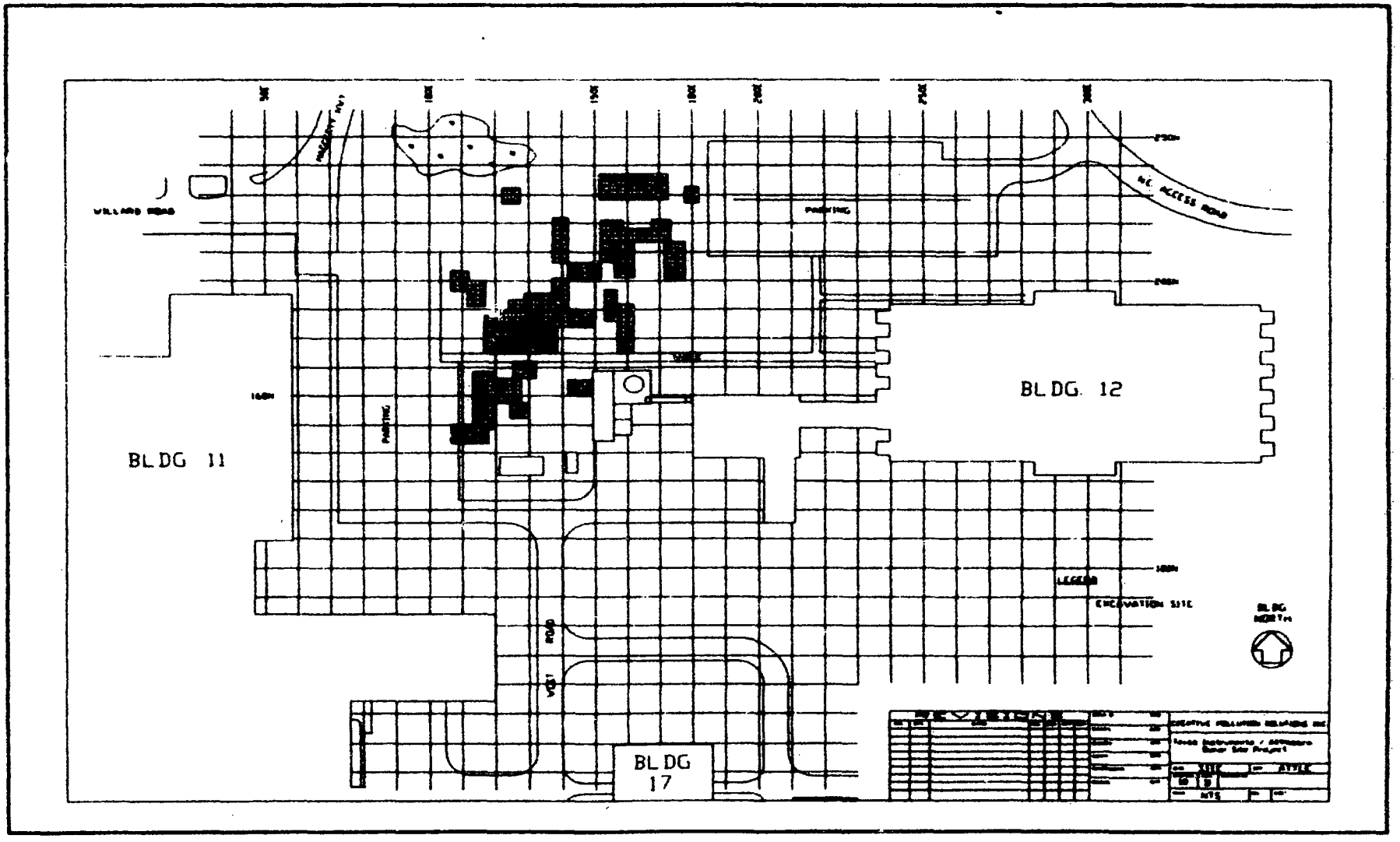
Total volume = 350 + 510 = 860 m^3

850 x 35.314 ft^3/ m^3 = 30,400 ft^3

Cost Estimate: (see Appendix A for explanation)

Disposal:	$1,003,200
Packaging:	$32,300
Transportation:	$446,250
Excavation:	$88,500
Health Physics:	$60,000
TOTAL :	$1,630,000

Figure 1



Option 3

Assumptions:

1) Clean-up areas with U-235 > 30 pCi/gram; U-238 > 35 pCi/gram; Th-232 > 10 pCi/gram.

2) Contamination to depth of 1 meter.

3) Grid area = 5 x 5 = 25 m^2

4) Clean-up includes areas identified as contaminated by ORAU elevated contact radiation measurements.

5) Volume calculated equals volume disposed of based on re-compaction upon packaging.

Volume Estimate: (Figure 2)

Area of contamination =

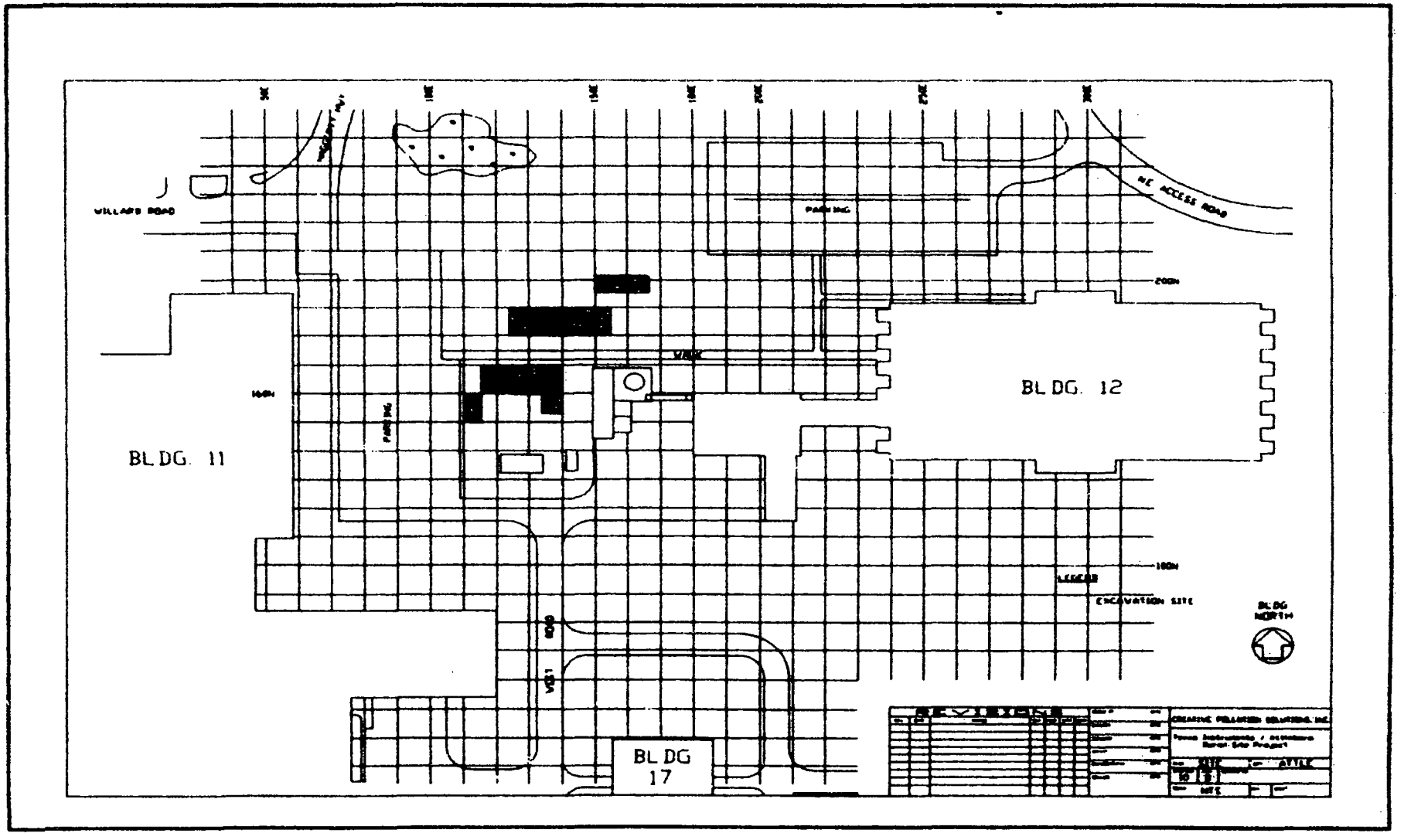
5 x 5 x 1 x 21 locations =

525 m^3 x 35.314 ft^3/m^3 = 18,500 ft^3

Cost Estimate:(see Appendix A)

Disposal:	$610,500
Packaging:	$16,120
Transportation:	$273,000
Excavation:	$66,375
Health Physics:	$50,000
TOTAL :	$1,015,995

Figure 2


VILLAGE ROAD
PARKING
NE ACCESS ROAD
BLDG. 12
BLDG. 11
PARKING
EXCAVATION SITE
BLDG NORTH
BLDG 17

Option 4

Assumptions:

1) All U-235 > 30 pCi/gram; U-238 > 35 pCi/gram; Th-232 > 10 pCi/gram.

2) Surface contamination to a depth of 0.6 meters.

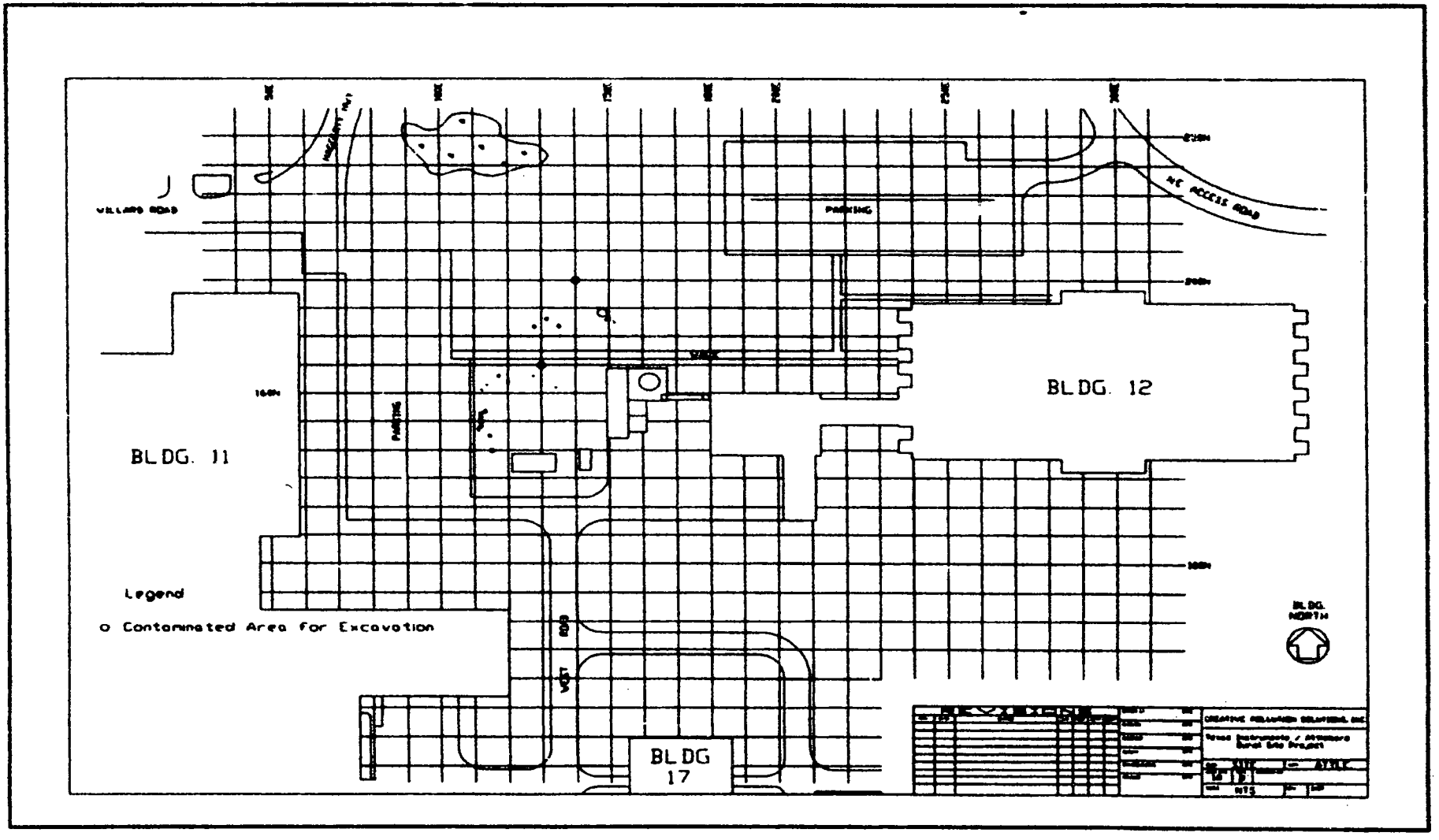
Volume Estimate: (see figure 3)

170 m^3 x 35.3 = 6000 ft^3

Cost Estimate: (see Appendix A)

Disposal:	$198,000
Packaging:	$4080
Transportation:	$89,250
Excavation:	$44,250
Health Physics:	$45,400
TOTAL :	$380,980

Figure 3


BLDG. 11
BLDG. 12
BLDG 17
Legend
o Contaminated Area for Excavation

Appendix A

General Cost Estimates

APPENDIX A -- GENERAL COST ESTIMATES

Transporation related costs:

Transportation costs are based on estimates from Franklin Environmental Services.

Transport using roll/off intermodal boxes with a capacity of 432 ft^3. Cost estimate includes delivery of the empty roll-off to the TI site, transport from the TI site to rail, the rail transport charges, and charges from the rail to the waste disposal site in Utah.

Delivery from rail	$325/roll-off
Transport to the rail	$325/roll-off
Rail transport	$4600/roll-off
Roll-off liner	$100 ea.
Box/roll-off rental	$70/week
Off-loading charge	unknown

Not including packaging (liner and box rental) transport will be approximately $5250/roll-off.

Waste Disposal:

$33.00/$ft^3$ of soil

ASSUMING NO SURCHARGES.

Excavation costs:

Excavation costs are based on estimates from Franklin Environmental Services.

Labor, material, equipment, heavy equipment and safety gear	$4425/day
Excavation using 3/4" screen	440 ft^3/hr
(assume 5 hour operation per day)	2200ft^3/day

Health Physics

Baseline Costs (Independent of Option): $30,000

Layout dig areas, write remediation plan, modify Health and Safety plan, equip. and supplies, Post remediation survey (monitoring and sampling), and final report.

Field Costs: $1540/day

Includes one HP @ $75/hr, 3 technicians @ $35/hr, and one HP on call @ $100/day.

APPENDIX B

ASSUMPTIONS AND GENERAL CONSIDERATIONS FOR REMEDIATION

APPENDIX B: ASSUMPTIONS AND GENERAL CONSIDERATIONS FOR REMEDIATION

Volume Reduction:

Volume reduction is a common practice to minimize disposal costs. For soil, two methods can be employed. Screening the soil to remove aggregate followed by compaction of the soil. It is estimated that the aggregate content represents 20% of the unexcavated volume. The unexcavated density is assumed to be approximately 2 grams/cm^2 and the excavated density is approximately 1.2 gram/cm^2 based on weight and volume obtained in pilot excavation samples. Simple field compaction can achieve a 2:1 compaction ratio. Therefore an overall volume reduction of 20% is possible, however, not used in the option estimates.

Transportation:

Trucking

The radioactive material from the affected areas meet the definition of Low Specific Activity, LSA. Requirements for transport are specified within 49 CFR 173.425 and specifies shipment as exclusive use. Cost estimates per exclusive use vehicle were obtained. According to Tri-State Motor Co., an experienced company in exclusive use transport of radioactive material, the costs would be approximately $1.84/mile with a shipment cost to Clive, Utah coming to $4500; to Barnwell South Carolina at $2100; and to Hanford Washington at $5800; and to Beutte, Nevada at $5000.

A Gross vehicle weight limit of 80,000 lbs is imposed with an estimated cargo weight of 45,000 lbs. Regardless of soil density, the weight is the limiting factor in exclusive use, not the volume. Therefore, based upon volume excavated and assumed densities, the number of exclusive use vehicles can be determined.

Rail

Based on estimates received from Franklin Environmental Services, LSA shipments of 22 tons capacity per roll-off container, with three containers per rail car, would cost approximately $5250/roll-off. The number of roll-offs depends on the volume option selected. The $5250 does not inlcude the $70/week rental fee or the $100/liner for the roll-offs.

Disposal Options:

Site excavation and disposal prior to January 1, 1993 is the desired option regardless of the presented cost estimates. Since cost estimates after that date will be greatly enhanced due to surcharges and limited burial site access.

Disposal costs at the burial sites will vary and a bidding process would be prudent to ensure the lowest cost. Envirocare has suggested a cost per unit volume of approximately $\$33/ft^3$. Other burial sites suggest that value for planning purposes but encourage a bidding process. Exclusive of actual burial charges, a surcharge is imposed as mandated by the LLW Act and is presently $\$160/ft^3$.

EnviroCare, under its license, section 9, "Authorized Use", requires provisions be met for users outside the Northwest Compact. Massachusetts is outside this compact and therefore a surcharge may be imposed. The surcharge cost was not included in any cost estimates in this report.

Residual Radioactivity

It is not entirely appropriate to provide mass estimates of residual radioactivity until remediation has been completed and a follow-up survey conducted. Due to the nature of the contaminates (i.e., U-238, U-235 without their respective progeny) the survey will rely primarily on soil sampling results.

Regardless, a preliminary assessment can be made based on a number of assumptions. For example, the residual could be based on the excavated area and aassume this area to be $850m^2$ with a depth of 1 meter. This volume corresponds to 1.02E9 grams of soil with a presumed density of 1.2 $grams/cm^3$.

With regards to activity concentrations the following case assumptions could be made:

Case I: Assume the uranium concentration is the same as background, i.e., 1-2 pCi/gram U-238 and 0.15-0.31 pCi/gram U-235. The mass would then be 4.59E3 grams and 110 grams of U-238 and U-235 respectively,

Case II: Assume NRC position of 1981 on residual activity at 10 pCi/gram natural uranium and would yield 3.06E4 grams, and

Case III: Assume NRC position of 1981 on residual activity at 30 pCi/gram for either enriched or depleted uranium. This would yield 9.2E4 grams.

Appendix I

Supplemental Sub Surface Soil Sampling
and
New Cost Estimates

Supplemental Sub Surface Soil Sampling
and
New Cost Estimates
for the
Environmental Restoration Program
of the
Texas Instruments Incorporated, Attleboro Site

Prepared by
Creative Pollution Solutions, Inc.
August 18, 1992

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II. Supplemental sub surface soil sampling 1

III. Determination of affected areas 2

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Appendix A

Split Spoon Drilling Data



At _____ after _____

No Water

At _____ after _____

LOCATION OF BORIN

DEPTH	Casing Blows per foot	Sample Depths From - To
	B#	(175 N -
	B#	(171 N -
	B#	(165 N -
	B#	(162 N -
	B#	(165 N -
	B#	(171 N -
	B#	(160 N -
	B#	(150 N -

ordinate as well as areas identified during the surface walkover scan. Surface soil samples :re taken at grid coordinates and assayed for Uranium 238 and 235 as well as Thorium 232 and idium 226. The surface exposure rate survey identified 21 isolated locations at which elevated reater than background) exposure rates were identified. These 21 locations were further aracterized by soil samples ranging in depth from 2 to 40 cm. In addition, 25 boreholes were ed to further characterize areas which exhibited elevated surface exposure rates and/or were estionable areas found by ground penetrating radar. The boreholes ranged in depth from 1.0 :ters to an average of 3.5 meters and a maximum on one borehole of 5.0 meters.

REATIVE POLLUTION SOLUTIONS, INC. (CPS)

ie CPS exercise employed a trenching technique and subsequent sample composited from tracted materials. The trenches, a total of four, were excavated with a conventional backhoe a depth of 2 feet. They ran in parallel within the study area and in a southwest to rtheasterly direction. The trenches were approximately 100 feet long and were segmented in :as which encroached on utilities. In addition to the trenches, 7 test pits were excavated in :as to the northeast and southwest of the trenches. (CPS 92)

e CPS study was intended to provide the following information:

. Confirmation of the data in the Oak Ridge Associated Universities (ORAU) study (RSAP/SMBP-8, 1985);

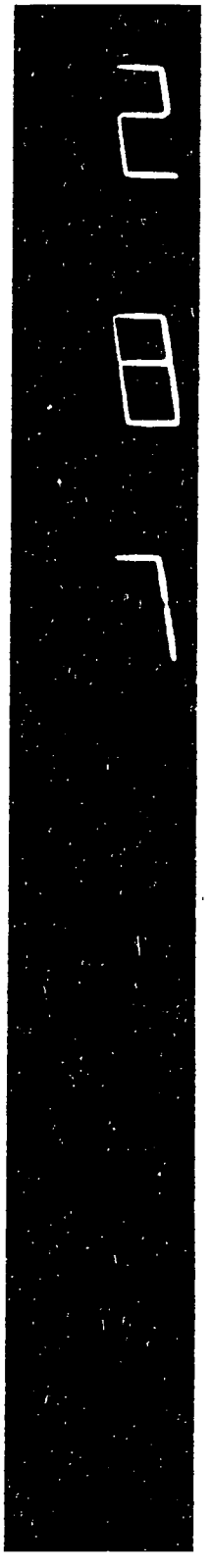
. Comparison of composite sample data between ORAU and Lockheed Analytical Laboratories, Inc. (LAL) data;

. Determination of acceptability for disposal of the contaminated soil and debris;

. Identification of remediation options and the estimated costs for each option,

. Correlation of gross alpha screening data with ORAU and LAL data and as a demonstration of a rapid field screening technique to be employed during remediation; and

. Demonstration of the feasibility of remediation.



III. PRE-EXCAV

A pre-excavation S
of the pre-excavati
the area defined i
Approximately fift
samples will be ve
B) will be perform
uranium distributi

IV. EXCAVATIO

General

The planned excav
Oak Ridge Associa
Solutions, Inc.

The excavation wil
the removal of app
two feet of soil. Ph
within diagram 2.
remove aggregate.
aggregate. A field
established to dete
monitoring and sa

Phase II will be pe
potentially contam
mechanical screeni
radiological monit
addition, if contam
disposal.

Details

1.0 Individuals Contacted

R. L. Churchill, Program Manager
M. J. Elliott, Manager of Environmental Engineering
M. Henault, Remediation Contractor
F. J. Veale, Manager of Safety, Industrial Hygiene and Environmental Engineering

2.0 Site Tour

During this inspection, the inspector observed remediation activities in process. It was noted that the entire area between the Building 11 and Building 12 parking lots was affected by these activities. The affected area covered about 2.5 acres. Of this, about 0.5 acres was excavated to about 10 feet deep as shown in Attachment 1. Piles of overburden soil covered about one acre.

The inspector noted that the licensee had established a contamination control change line; that individuals working in the affected area were wearing breathing zone air samplers; and that at least four environmental air samples had been installed in the area. One environmental air sampler was located in the Northeast corner of the site, another was located on the north edge of the site, and, a third sampler was located on the south edge of the site. The last sampler was relocated, as necessary adjacent to work areas.

3.0 Review of Air Sampling Results

3.1 Breathing Zone Air Samples

The inspector reviewed the licensee's records of breathing zone air sampling results for the time period September 15 to October 31, 1992. The results indicated that the workers were not exposed to any significant airborne radioactivity. The maximum exposure was about 2 maximum permissible concentration - hours (mpc-hrs) exposure for uranium. The maximum permissible concentration for insoluble uranium specified in 10 CFR 20, Appendix B, Table 1, Column 1 is 1.0E-10 microcuries per cubic centimeter. No inadequacies were identified.

3.2 Environmental Air Samples

The inspector reviewed the licensee's records of environmental air sampling results for the time period September 15 to October 31, 1992. Typical results indicated the presence of about one to two percent of the maximum permissible concentration (MPC) for uranium specified in 10 CFR 20, Appendix B, Table 2, Column 1 in air. The maximum air concentration measured was about 20% of the applicable MPC. The applicable MPC for insoluble uranium in air is 4.0E-12 microcuries per cubic centimeter.

4.0 Future Actions

4.1 Licensee

The licensee expected to complete site remediation activities by November 15, 1992. The final shipment of contaminated soil was expected to leave the site no later than November 16, 1992. Following the completion of remediation activities, the licensee expected to initiate the final "bottom of the hole" surveys. These surveys will include soil sampling and analyses. That survey report was expected to be completed and sent to the NRC Region I office for review on or before December 1, 1992.

Upon completion of verification surveys by the NRC, the licensee will fill the excavated areas on site and will conduct a final survey and soil sample analysis of the entire affected area. Upon completion of that survey, a final survey report will be prepared and submitted to the NRC. That report will also contain a residual radiation dose evaluation and a request for license termination.

4.2 NRC

Upon receipt of the "bottom of the hole" survey report, the NRC will evaluate the report and arrange for a verification survey to be conducted by the NRC contractor, the Oak Ridge Institute for Science and Education. That survey is expected to take place during the week of December 14, 1992. NRC also expects to conduct a final verification survey of the affected area of the site during the spring of 1993.

5.0 Licensee Discussions

In lieu of an exit interview, the inspector held continuing discussions with the individuals identified in Paragraph 1.0 throughout the inspection on November 3, 1992. These discussions provided the licensee representatives with the results of the inspection.

NRC Inspection Report of December 14-16, 1992

(without attachment)

NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

DEC. 30 1992

Docket No. 70-33

Mr. Frank J. Veale, Jr.
Manager, Environmental Engineering/
Industrial Hygiene
Metals and Controls Group
Texas Instruments, Incorporated
34 Forest Street
Attleboro, Massachusetts 02703

Dear Mr. Veale:

Subject: NRC Inspection No. 70-33/92-04

An announced safety inspection of your site remediation activities was conducted at your facility by Mr. J. Roth on December 14-16, 1992. The inspection findings were discussed with you, Mr. W. Schuele, and members of your staff on December 16, 1992 during the inspection.

The area reviewed during the inspection was important to health and safety and is discussed in the enclosed inspection report. This area was the observation of a confirmatory survey conducted by the NRC contractor, the Oak Ridge Institute for Science and Education.

All operations of the facility have been terminated with the exception of decommissioning and decontamination activities. Preliminary results of the surveys conducted by the NRC contractor during this inspection indicated that you appeared to have completed cleanup of the bottom of the excavated area of the former burial site in an appropriate manner. However, the existence of elevated radiation levels on the walls of the excavated area indicated that not all radioactive material, above the guidance values approved in your Remediation Plan (30 picocuries total uranium per gram of soil), had been removed. It is our understanding that you will remove this material, resurvey the edges of the excavated area and provide this office with a revised final survey report. Within the scope of this inspection, no safety concerns or violations of regulatory requirements were identified.

No response to this letter is required. Your cooperation with us is appreciated.

Sincerely,

James H. Joyner, Chief
Facilities Radiological Safety
and Safeguards Branch
Division of Radiation Safety
and Safeguards

Enclosure: NRC Region I Inspection Report No. 70-33/92-04

cc w/encl:
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
Commonwealth of Massachusetts (2)

License No. SNM-23 Priority 1 Category HFIR

Licensee Texas Instruments, Incorporated
34 Forest Street
Attleboro, Massachusetts 02702

Facility Name: HFIR Project

Inspection At: Attleboro, Massachusetts

Inspection Conducted: December 14-16, 1992

Inspector: _____ 12/29/92
J. Roth, Project Engineer Date
Facilities Radiation Protection Section
Facilities Radiological Safety and Safeguards Branch
Division of Radiation Safety and Safeguards

Approved by: _____ 12/29/92
W. J. Pasciak, Chief Date
Facilities Radiation Protection Section
Facilities Radiological Safety and Safeguards Branch
Division of Radiation Safety and Safeguards

Areas Inspected: Special, announced inspection by a region-based inspector to observe a survey conducted by the NRC contractor, the Oak Ridge Institute for Science and Education (ORISE), to verify survey results provided by the licensee.

Results: Preliminary results of the ORISE survey indicated that the licensee appeared to have completed cleanup of the bottom of the excavated area in an appropriate manner. However, elevated radiation levels obtained on the walls of the excavated areas indicate that not all radioactive material, above the NRC-approved guidance values, had been removed. No safety concerns or violations of regulatory requirements were identified.



DETAILS

1.0 Individuals Contacted

M. Elliot, Manager, Environmental Engineering
M. Griffin, Project Manager
T. Gutman, Consultant
W. Lorenzen, Health Physicist
J. O'Donnell, Corporate Health Physicist
W. Schuele, Attleboro Site Manager
F. Veale, Jr., Manager, Environmental Engineering/Industrial Hygiene

Other licensee representatives, employees and remediation contractor employees were also interviewed during this inspection.

2.0 Background

On August 26, 1992, NRC issued Amendment No. 16 to Facility License SNM-23. This amendment authorized the licensee to perform remediation of the on-site low level radwaste burial site in accordance with the "Remediation Plan for the Identified Building 12 Burial Area" (Remediation Plan) and the "Radiological Health and Safety Plan dated July 30, 1992." The licensee performed the remediation activities between August 27 and November 13, 1992 and provided the NRC with the "Post Excavated Radiological Survey Report" dated November 28, 1992. This report, provided as Attachment 1, was used as the basis for preparation of the "Confirmatory Radiological Survey Plan for the Texas Instruments Incorporated Burial Site, Attleboro, Massachusetts" which was submitted to the NRC Region I office by the NRC contractor, the Oak Ridge Institute for Science and Education (ORISE) by letter dated December 10, 1992 (see Attachment 2). This plan was approved by the NRC and the confirmatory survey was conducted December 14-16, 1992.

3.0 Conduct of the Verification Survey

ORISE personnel conducted the verification survey discussed in Paragraph 2.0. Available surfaces of the excavated and adjacent areas were scanned using gamma scintillation or GM detectors. Soil samples were taken from randomly selected locations within the excavated areas. Additional soil samples also were taken within the excavated areas at locations that exhibited elevated radiation readings during the scanning, or were identified as elevated in the licensee's report. Each of these samples was split with the licensee and will be analyzed to verify the licensee's analytical ability. The results will be included in correspondence to the licensee when the analyses are completed.

Preliminary results indicated that the licensee appeared to have completed cleanup of the bottom of the excavated area in an appropriate manner. However, elevated radiation levels (ranging from 2½ to 40 times background) identified on the walls of the excavation (see Attachment 3) indicated that radioactive material, above the 30 picocuries total uranium per gram of soil guidance value contained in the NRC-approved Remediation Plan, may not have been removed from the burial site. As a result, the licensee was requested by the inspector to perform additional remediation activities.

5.0 Additional Actions Required

5.1 Licensee

Upon completion of the additional remediation activities, the licensee is expected to resurvey the excavated areas and provide the NRC with a revised final survey report of the remediated area.

5.2 NRC

Upon receipt of the licensee's final survey report, the NRC contractor will the site, resurvey the applicable areas and will perform final confirmatory surveys n the surface of the remediated area.

6.0 Exit Interview

The inspector met with the licensee representatives denoted in Paragraph 1.0 at the conclusion of the inspection on December 16, 1992. The ORISE team leader and the inspector summarized the results of the confirmatory survey conducted by ORISE personnel. The inspector thanked the licensee for providing the survey team logistical support and backup when required.

During the exit interview, the inspector provided the licensee with guidance in regard to soil sample result averaging. It was stated that since the soil samples were taken at the grid block intersections, the average residual uranium value for each adjacent four grid blocks also had to meet the 30 picocuries total uranium per gram of soil criteria. In addition, the licensee was reminded that the results of groundwater monitoring for total uranium had to be incorporated into the final report.

NRC Inspection Report of June 2, 1993

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

JUL 7 '93

Docket No. 70-33

Mr. Frank J. Veale, Jr.
Manager, Environmental Engineering/
Industrial Hygiene
Metals and Controls Group
Texas Instruments, Incorporated
34 Forest Street
Attleboro, Massachusetts 02703

Dear Mr. Veale:

Subject: NRC Inspection No. 70-33/93-01

An announced safety inspection of the site remediation activities at your facility was conducted by Mr. Roth on June 2, 1993. The inspection findings were discussed with you, Mr. Schuele, and members of your staff on June 2, 1993.

The area reviewed during the inspection was important to public health and safety and is discussed in the enclosed inspection report. This area involved site remediation activities and included the conduct of a confirmatory survey by the inspector.

All NRC-licensed operations at the facility have been terminated with the exception of decommissioning and decontamination activities. Preliminary results of the surveys conducted by the inspector during this inspection indicated that you have completed cleanup of the excavated area of the former burial site in an appropriate manner. Within the scope of this inspection, no safety concerns or violations of regulatory requirements were identified.

No response to this letter is required. Your cooperation with us is appreciated.

Sincerely,

James H. Joyner, Chief
Facilities Radiological Safety
and Safeguards Branch
Division of Radiation Safety
and Safeguards

Enclosure: NRC Region I Inspection Report No. 70-33/93-01

cc w/encl:
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
Commonwealth of Massachusetts (2)

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No.: 70-33/93-01

Docket No.: 70-33

License No.: SNM-23 Priority 1 Category UHFF

Licensee: Texas Instruments, Incorporated
34 Forest Street
Attleboro, Massachusetts 02702

Facility Name: HFIR Project

Inspection At: Attleboro, Massachusetts

Inspection Conducted: June 2, 1993

Inspector: _____ 7/1/93
J. Roth, Project Engineer Date
Facilities Radiation Protection Section (FRPS)
Facilities Radiological Safety and Safeguards
Branch (FRSSB)
Division of Radiation Safety and Safeguards

Approved by: _____ 7-1-93
W. Pasciak, Chief Date
FRPS, FRSSB
Division of Radiation Safety and Safeguards

Areas Inspected: Special, announced inspection by a region-based inspector to perform a radiological survey of portions of the onsite excavated area following remediation by the licensee.

Results: Preliminary results of the survey indicated that the licensee appeared to have completed remediation of the excavated area in an appropriate manner. No safety concerns or violations of regulatory requirements were identified.

Details

1.0 Individuals Contacted

M. J. Elliott, Manager, Environmental Engineering
M. Griffin, Project Manager
W. A. Lorenzen, Health Physicist
F. F. McWilliams, Health Physicist
W. Schuele, Attleboro Site Manager
F. J. Veale, Jr., Manager, Environmental Engineering/Industrial Hygiene

Other licensee representatives, employees and remediation contractor employees were also interviewed during this inspection.

2.0 Background

On December 14-16, 1992, the NRC contractor, the Oak Ridge Institute for Science and Education (ORISE), performed a verification survey of the remediated area of the Attleboro site. During that survey, it was determined from radiation levels (ranging from 2½ to 40 times background) on the walls of the excavation that radioactive material remained that was above the 30 picocuries total uranium per gram of soil guidance value contained in the NRC-approved Remediation Plan. In addition, analysis of soil samples taken by ORISE indicated that there were two locations on the bottom of the excavation that exceeded the NRC guidance value. Results of the ORISE survey are provided in Attachment 1. As a result, the licensee was requested by the inspector to perform additional remediation activities.

Since the December, 1992 NRC-survey the licensee has performed additional onsite remediation, drained the groundwater out of the excavated area, and verified that the excavated area met the NRC guidance value of 30 picocuries total uranium per gram of soil.

Since, according to a May 25, 1993 letter to the NRC (Attachment 2), the licensee intended to backfill the excavation as soon as the final survey was completed, a special inspection was conducted on June 2, 1993 in order to verify that the bottom of the excavation met the NRC guidance value indicated above.

3.0 Conduct of the Verification Survey

The inspector performed the verification survey discussed in Paragraph 2.0. Surfaces adjacent to, in and on the walls of the excavation were scanned using a gamma scintillation detector. Micro-R readings were taken at one meter above the surface at random locations, soil samples were taken from the two remediated areas on the bottom of the excavation and from two locations that exhibited elevated radiation readings during the scanning. The two elevated areas were remediated by the licensee prior to sampling by the inspector.

a Ludlum Model 16 Analyzer equipped with a 1 inch sodium iodide scintillation detector. Prior to the survey, the instrument background was determined to be about 2500 counts per minute. Radiation levels in the excavated area were found to be between one and one and one-half times background except in two elevated areas (grid location 185N X 157E, three times background; grid location 177.5N X 122E, two times background). Both elevated areas were immediately remediated by the licensee. Subsequent to remediation, the radiation levels in these two areas was reduced to one to one and one-half times background.

4.2 One-Meter Gamma Survey

The inspector performed gamma radiation measurements at one-meter above the surface using a Ludlum Micro-R Meter. The measurements were made in the following locations.

Grid Location	Results (Micro-R/hr)	Grid Location	Results (Micro-R/hr)
185N 157E	14	165N 130E	13.5
1775.N 122E	15	170N 130E	14
180N 120E	14	175N 130E	13
175N-125E	14	182N 140E	12
170N-125E	12.5	180N 130E	13.5
190N - 160E	12.5	190N 140E	11

4.3 Soil Samples

Soil samples were obtained by the inspector for the two elevated grid locations identified by the inspector in paragraph 4.1 and from the two grid locations identified in the ORISE survey report discussed in paragraph 2.0.

Sample Identification	Preliminary Sample Result (picocuries total uranium/gram soil)
185N 157E	22
177.5N 122E	58
162N 130E	16
182N 132E	36

The preliminary sample analysis results were obtained by alpha counting in the licensee's laboratory. This technique has been shown to be conservative (higher) when compared to the analytical results obtained in the ORISE laboratories as indicated in Attachment 3. The samples will be sent to the ORISE laboratories for verification analyses and the results will be provided in a subsequent inspection report.

5.0 Additional Actions Required

5.1 Licensee

Upon completion of the additional remediation activities, the licensee is expected to resurvey the excavated areas and provide the NRC with a revised final survey report. The expected schedule for completion of these activities is provided in Attachment 2.

5.2 NRC

Following receipt of the licensee's final survey report, the NRC contractor will visit the site, resurvey the applicable areas and will perform final confirmatory surveys on the surface of the remediated area.

6.0 Exit Interview

The inspector met with the licensee representatives denoted in Paragraph 1.0 at the conclusion of the inspection on June 2, 1993. The scope of the inspection and the findings were discussed with the individuals present.

ORISE
OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

January 25, 1993

Mr. Jerry Roth
Region 1
Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19400

SUBJECT: INTERIM RADIOLOGICAL SURVEY LETTER REPORT FOR THE TEXAS INSTRUMENTS, INCORPORATED BURIAL SITE, ATTLEBORO, MASSACHUSETTS

Dear Mr. Roth:

The Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) performed a confirmatory radiological survey of the Texas Instruments Burial Site in Attleboro, Massachusetts, on December 15-16, 1993. Survey activities included gamma surface scans and collection of soil samples. ESSAP offers the following interim survey data for your review.

SURFACE SCANS

Gamma surface scans were performed at the boundary of the excavated area. Several locations of elevated direct radiation were identified (Figure 1). At a number of these locations, the elevated activity was associated with small pieces of metal debris. A similar piece of material was identified while scanning around the overburden piles at grid block location 220N, 145E. Remedial activities by Creative Pollution Solutions (CPS), a contractor for Texas Instruments, were not effective. Furthermore, during these remedial activities, a relatively larger piece of scrap metal with elevated activity was excavated from the west side of the burial site, adjacent to the parking area.

SOIL SAMPLING

Ten soil samples were collected from the bottom of the excavated area and six samples were collected from the overburden piles. ESSAP has analyzed all samples by gamma spectrometry. The analytical results are presented in Table 1, and sample locations are shown in Figure 2. The total uranium concentrations for samples taken from the overburden piles ranged from 1.5 to 50 pCi/g. The total uranium concentrations for samples taken from the bottom of the excavation

ranged from 3 to 400 pCi/g. The sample with a total uranium concentration of 400 pCi/g was taken at grid coordinate 185N, 125E. A second sample, taken by the licensee at approximately the same location, was analyzed by ESSAP and contained 85 pCi/g of total uranium.

The soil concentration guideline, for enriched uranium, is 30 pCi/g. The total uranium concentration at a number of locations in the excavated area exceeds this limit. Furthermore, based on the survey findings, it is ESSAP's opinion that the full extent of the burial site, particularly on the west side, adjacent to Building 11 parking area, has not been determined.

If there are any questions or you need additional information, please do not hesitate to contact me at (615) 576-3355 or Michele Landis at (615) 576-2908.

Sincerely,

Armin Jaberaboansari
Project Leader
Environmental Survey and
Site Assessment Program

AJ:mkp

cc: J. Parrott, NRC/6H3
D. Tiktinsky, NRC/6E6
T. Mo, NRC/6H3
J. Swift/F. Brown, NRC/6H3
J. Kinneman, NRC/Region 1
NRC/PMDA, 6E6
J. Berger, ORISE/ESSAP
M. Landis, ORISE/ESSAP
File/205

TABLE 1
URANIUM CONCENTRATIONS IN SOIL SAMPLES
TEXAS INSTRUMENTS, INC.
ATTLEBORO, MASSACHUSETTS

Sample Location	Uranium Concentrations[a]		
	U-235	U-238	Total Uranium[b]
Excavated Area[c]			
200N, 165E	0.7 ± 0.1	10.5 ± 2.2	27
185N, 125E, Sample 1	15.1 ± 2.0	48.5 ± 7.2	400
185N, 125E, Sample 2[d]	1.7 ± 0.3	45.7 ± 6.7	85
185N, 150E	0.2 ± 0.1	5.3 ± 1.3	10
180N, 130E	1.9 ± 0.3	30.0 ± 4.5	74
170N, 190E	0.1 ± 0.1	0.5 ± 0.6	2.8
165N, 125E	0.3 ± 0.1	3.7 ± 1.2	11
160N, 135E	1.3 ± 0.1	54.3 ± 2.2	84
160N, 130E	2.1 ± 0.3	89 ± 13	140
155N, 115E	0.1 ± 0.1	1.2 ± 0.7	3.5
150N, 139E	0.6 ± 0.1	56.1 ± 2.4	70
Overburden Piles[e]			
230N, 155E	1.0 ± 0.2	27.1 ± 4.2	50
220N, 155E	0.2 ± 0.1	4.4 ± 1.1	9.0
220N, 140E	0.9 ± 0.2	15.9 ± 2.6	37
210N, 145E	0.1 ± 0.1	0.8 ± 0.7	1.5
BFP1, Sample 1[f]	1.1 ± 0.2	24.5 ± 4.0	50
BFP1, Sample 2	1.0 ± 0.2	16.8 ± 2.8	40

[a] Uncertainties represent the 95% confidence level based only on counting statistics.
[b] Total uranium concentrations are calculated based on a U-234 to U-235 activity ratio of 22:1.
[c] See Figure 2.
[d] This sample was provided to ESSAP by the licensee.
[e] Exact locations for soil samples from the overburden piles are not indicated on Figure 2. Approximate grid coordinates or a general description is provided.
[f] "Backfill Pile 1" (BFP1) is located to the west of the excavated area across from the parking area. Samples 1 and 2 were taken from the southwest and northeast corner of BFP1, respectively.

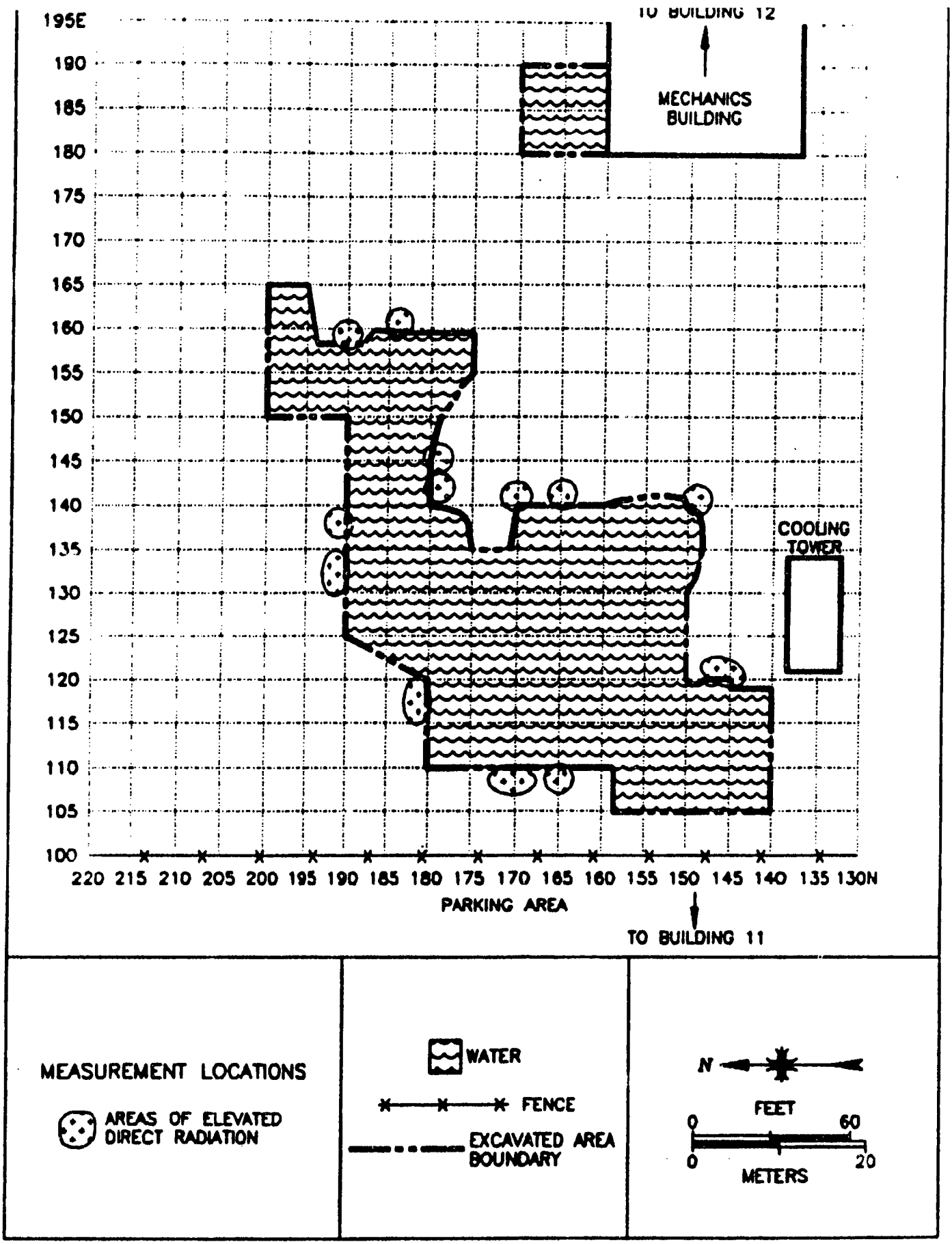


FIGURE 1: Plot Plan of the Burial Site – Areas of Elevated Direct Radiation

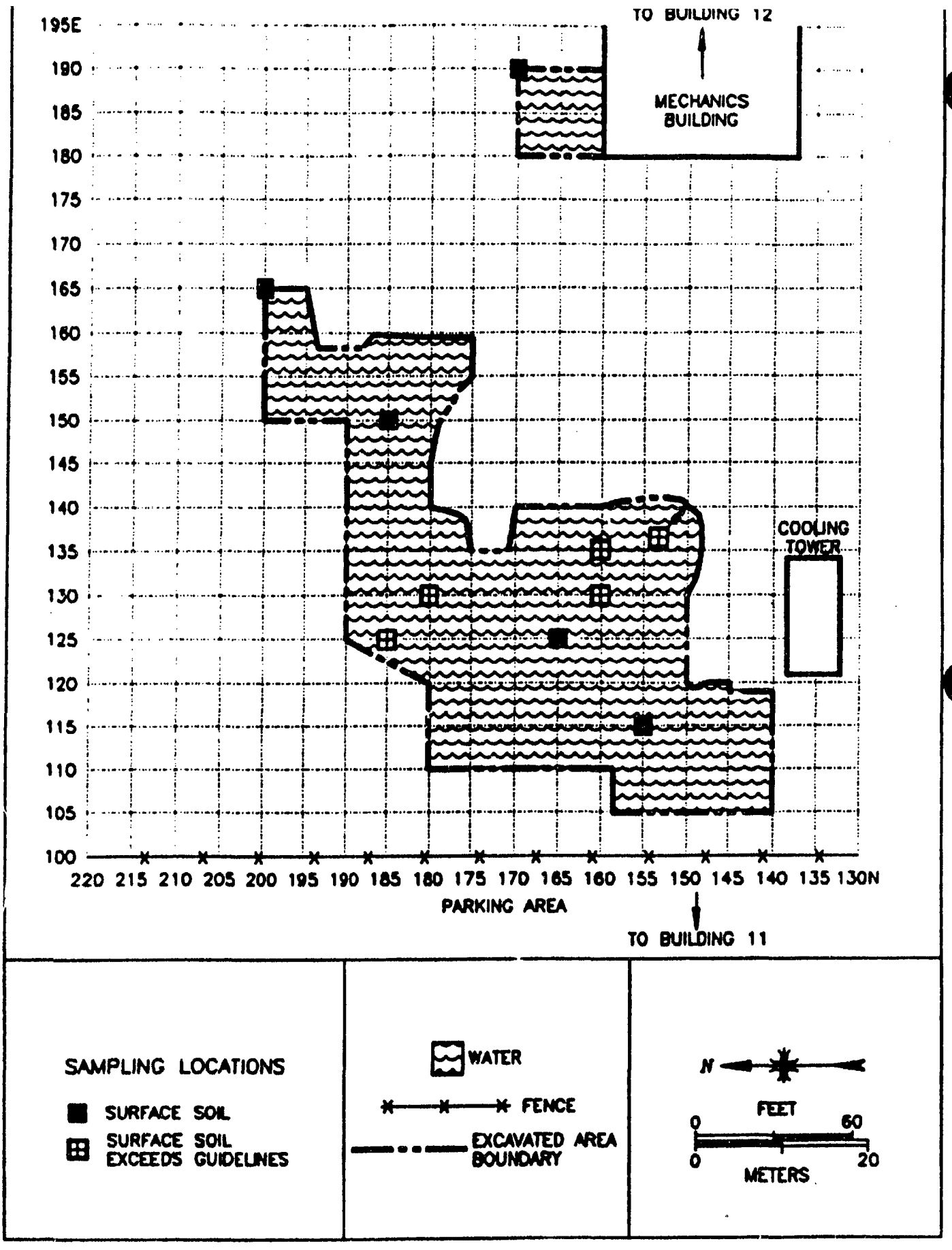


FIGURE 2: Plot Plan of the Burial Site – Surface Soil Sampling Locations

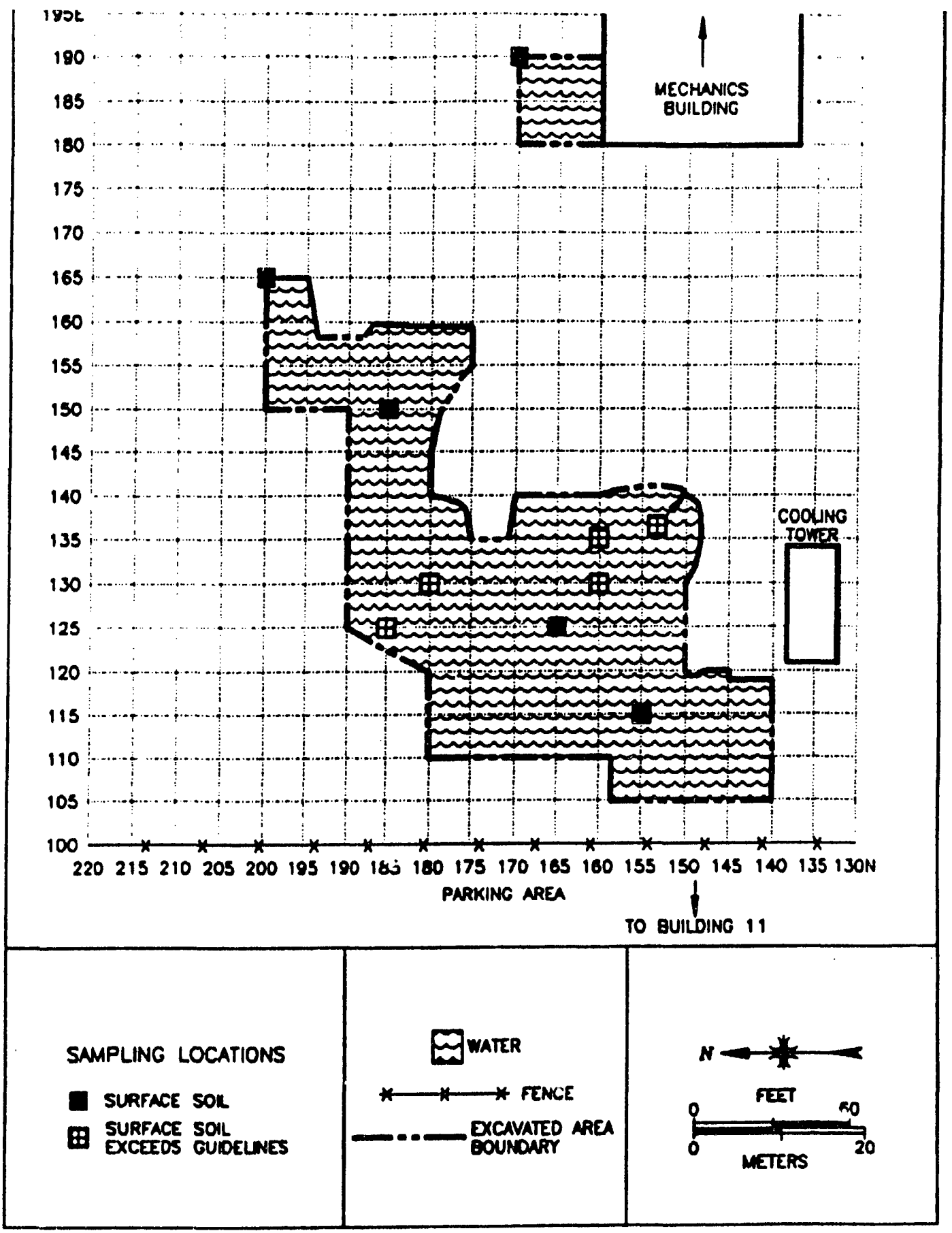


FIGURE 2: Plot Plan of the Burial Site – Surface Soil Sampling Locations

This past weekend, May 19 and 20, TI's Health Physics contractor performed radiological surveys in the excavation to more accurately define the sediments requiring removal. Subsequent activities will adhere as closely as possible to the following schedule:

All dates are for 1993

- Sediment Removal — May 26 to May 29
- Soil Sampling and Analysis — May 28 to June 2
  - Gross Alpha Counting will occur simultaneously with "Sediment Removal." Samples will be collected according to the sampling grid pattern described in the Remediation Plan.
  - Gamma Spec Analysis will be performed to verify the Gross Alpha results on a few selected samples.
- Backfill Operation — June 2 to June 9
- Final Walkover Survey — June 10 to June 16
- Restoration and Landscaping — June 17 to July 1
- Submit Final Report — August 20

Please feel free to contact me if you have any questions concerning the above information or any other related matter.

Sincerely,

MATERIALS AND CONTROLS GROUP
ENVIRONMENTAL, SAFETY, AND HEALTH DEPARTMENT

Michael J. Elliott

Michael J. Elliott
Engineering Manager

MJE:bvs

cc: Mr. Daniel V. Bartosh Jr., TI - Dallas
Mr. John O'Donnell TI - Dallas
Mr. Richard L. Jooste Jr., TI - Dallas
Mr. Francis J. Veale Jr., TI - Dallas

ORISE
OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

December 10, 1992

Mr. Jerome Roth
Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

SUBJECT: CONFIRMATORY RADIOLOGICAL SURVEY PLAN FOR THE TEXAS INSTRUMENTS INCORPORATED BURIAL SITE, ATTLEBORO, MASSACHUSETTS

Dear Mr. Roth:

Enclosed is a copy of the subject document. As discussed in our earlier phone conversation, on-site activities have been scheduled for December 15-16, 1992.

If there are any questions, please direct them to me at (615) 576-3355 or Michele Landis at (615) 576-2908.

Sincerely,

Armin Jaberaboansari
Project Leader
Environmental Survey and
Site Assessment Program

AJ:ttc

cc: J. Parrott, NRC/NMSS, 6H3
T. Mo, NRC/NMSS, 6H3
D. Tiktinsky, NRC/NMSS, 6H3
J. Swift/F. Brown, NRC/NMSS, 6H3
J. Kinneman, NRC/Region I
M. Landis, ORISE
J. Berger, ORISE
PMDA, 6E6
File/205

CONFIRMATORY SURVEY PLAN FOR THE TEXAS INSTRUMENTS INCORPORATED BURIAL SITE, ATTLEBORO, MASSACHUSETTS

SITE HISTORY AND DESCRIPTION

The Texas Instruments Incorporated site at Attleboro, Massachusetts, was owned and operated by Metals and Controls (M&C) until 1959, at which time M&C merged with Texas Instruments, Inc. The General Plate Division of M&C began processing nuclear materials in 1952, and between 1952 and 1959 fabricated uranium foils for reactor experiments and fuel components and complete reactor fuel cores for the U.S. Navy. Source material license D-549 was issued permitting acquisition and title to not more than 22.7 kg (50 pounds) of refined source material for use in the production of uranium foils; additional source material was acquired and used under contract with U.S. Government. Special nuclear materials license No. SNM-23 was issued, permitting acquisition and title to 110 kg of enriched uranium for fabrication of the fuel components and cores. After the merger in 1959, Texas Instruments continued fabricating reactor fuel cores, primarily for research and production reactors. Also, source materials, i.e., natural uranium and thorium, were still being fabricated for sale to various corporations.

A 1964 Texas Instruments health and safety manual states that uranium- and thorium-contaminated noncombustible scrap material and machinery were collected in 55-gallon steel drums and were disposed of through authorized agencies, or were buried on-site in compliance with 10CFR20.304. Burials were made from 1958 to 1961, and the burial site was closed in 1967. Records indicate two known burials, one in 1958 of contaminated ductwork, and one in 1961 of 28.4 mCi of enriched uranium noncombustible scrap. Work with nuclear materials was gradually reduced beginning in 1968 and was terminated 974. The interior of the facility was decontaminated and released for unrestricted use by the Nuclear Regulatory Commission (NRC) in 1983.

Prepared by the Environmental Survey and Site Assessment Program of Oak Ridge Institute for Science and Education, Oak Ridge, TN, under interagency agreement (NRC Fin. A-9076) between the U.S. Nuclear Regulatory Commission and the U.S. Department of Energy.

The Texas Instruments Inc. Facility, Attleboro, MA is located in North Attleboro, approximately 48 kilometers south of Boston. The Radiological Site Assessment Program, predecessor to the Environmental Survey and Site Assessment Program, of the Oak Ridge Associated Universities (ORAU) conducted a radiological survey of portions of the facility's outdoor areas during April and May, 1984. The results of that survey indicated several areas with surface and/or subsurface uranium concentrations in excess of guidelines.[1]

Texas Instruments Inc. has completed the cleanup and final survey activities at the burial site located between Buildings 11 and 12. The excavated area at the burial site is approximately 1600 m^2 and the average depth of the excavated area is approximately 1.5 meters. The U.S. Nuclear Regulatory Commission, Region I Office, has requested that the Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) perform an independent confirmatory survey of the excavated area at the burial site.

OBJECTIVE

The objective of a confirmatory survey is to provide independent document reviews and radiological data, for use by the NRC in evaluating the adequacy and accuracy of the licensee's radiological status report, relative to established guidelines.

RESPONSIBILITY

Work described in this survey plan will be performed under the direction of Michele Landis, Project Manager and Armin Jaberaboansari, Project Leader with ESSAP. The cognizant site supervisor has the authority to make appropriate changes to the survey procedures as deemed necessary. After consultation with the NRC site representative, the scope of the survey plan may be altered. Deviations to the survey plan or procedures will be documented in the site log book.

DOCUMENT REVIEW

ESSAP will review the licensee's radiological survey data. Procedures and methods utilized by the licensee will be reviewed for adequacy and appropriateness. The post-remedial action data will be reviewed for accuracy, completeness and compliance with guidelines.

PROCEDURES

Survey activities will be conducted in accordance with the ORISE ESSAP Survey Procedures Manual. Specific procedures applicable to this survey are listed on page 4 of this survey plan.

REFERENCE GRID

A 10 m grid was established during ESSAP's radiological survey of the area in 1984 which was subsequently used by the licensee.[2] The same reference grid will be used in this survey.

SURFACE SCANS

Surface scans of the excavated and the surrounding area (approximately 10,000 m^2) will be performed using NaI detectors coupled to countrate meters with audible indicators. Areas of elevated direct radiation will be noted for further investigation.

SOIL SAMPLING

Surface soil samples will be obtained from ten randomly selected grid line intersections. Ten to fifteen samples will be obtained from the overburden piles. Additional soil samples will be obtained from locations of elevated direct radiation, identified by surface scans, or at specific locations based on previous ESSAP and/or licensee's survey results.

Samples and data will be returned to ORISE's ESSAP laboratory in Oak Ridge, TN for analysis and interpretation. Soil samples will be analyzed by gamma spectrometry. Approximately 10% of the soil samples will be analyzed by alpha spectroscopy for isotopic uranium.

The data generated will be compared with the licensee's documentation and NRC guidelines established for release to unrestricted use. Results will be presented in a report and provided to the NRC for review and comment. Data and samples collected as a part of this survey will be archived by ESSAP.

GUIDELINES

The soil concentration guideline, for enriched uranium, is 30 pCi/g.[3]

TENTATIVE SCHEDULE

Measurement and Sampling	December 14-15, 1992
Sample Analysis	January, 1993
Draft Report	April, 1993

LIST OF CURRENT PROCEDURES

Applicable procedures from ORISE ESSAP Survey Procedures Manual include:

Section 5.0 Instrument Calibration and Operational Check-Out

- 5.1 General Information
- 5.2 Electronic Calibration of Ratemeters
- 5.3 Gamma Scintillation Detector Check-Out and Cross Calibration
- 5.4 Alpha Scintillation Detector Calibration and Check-Out

5.5 GM Detector Calibration and Check-Out

5.13 Field Measuring Tape Calibration

Section 6.0 Site Preparation

6.2 Reference Grid System

Section 7.0 Scanning and Measurement Techniques

7.1 Surface Scanning

Section 8.0 Sampling Procedures

8.1 Surface Soil Sampling

8.9 Sample Identification and Labeling

Section 9.0 Integrated Survey Procedures

9.1 Background Measurements and Baseline Sampling

9.2 General Survey Approaches and Strategies

Section 10.0 Health and Safety and Control of Cross Contamination

Section 11.0 Quality Assurance and Quality Control

REFERENCES

1. "Radiological Survey of the Texas Instruments Site, Attleboro, Massachusetts," Oak Ridge Associated Universities, January, 1985.

2. "Post Excavation Radiological Survey Report, Texas Instruments Incorporated Burial Site, Attleboro, Massachusetts," Creative Pollution Solutions, Inc., November 28, 1992.

3. "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source or Special Nuclear Material," U.S. Nuclear Regulatory Commission, Division of Fuel Cycle and Material Safety, Washington D.C., August 1987.

Plan Preparation - $4,300

Plan preparation includes the following activities: document reviews, survey plans, trip planning and the cost and time estimates.

On-Site Activities - $18,300

On-site activities will include 6 man-days at the site performing the following: gamma scans and soil sampling.

The on-site expenses also include trip preparation (equipment calibration and packing), travel to and from the site (airlines and rental vehicles), hotel expenses, and per diem, unpacking equipment, and logging in samples.

Sample Analysis - $6,600

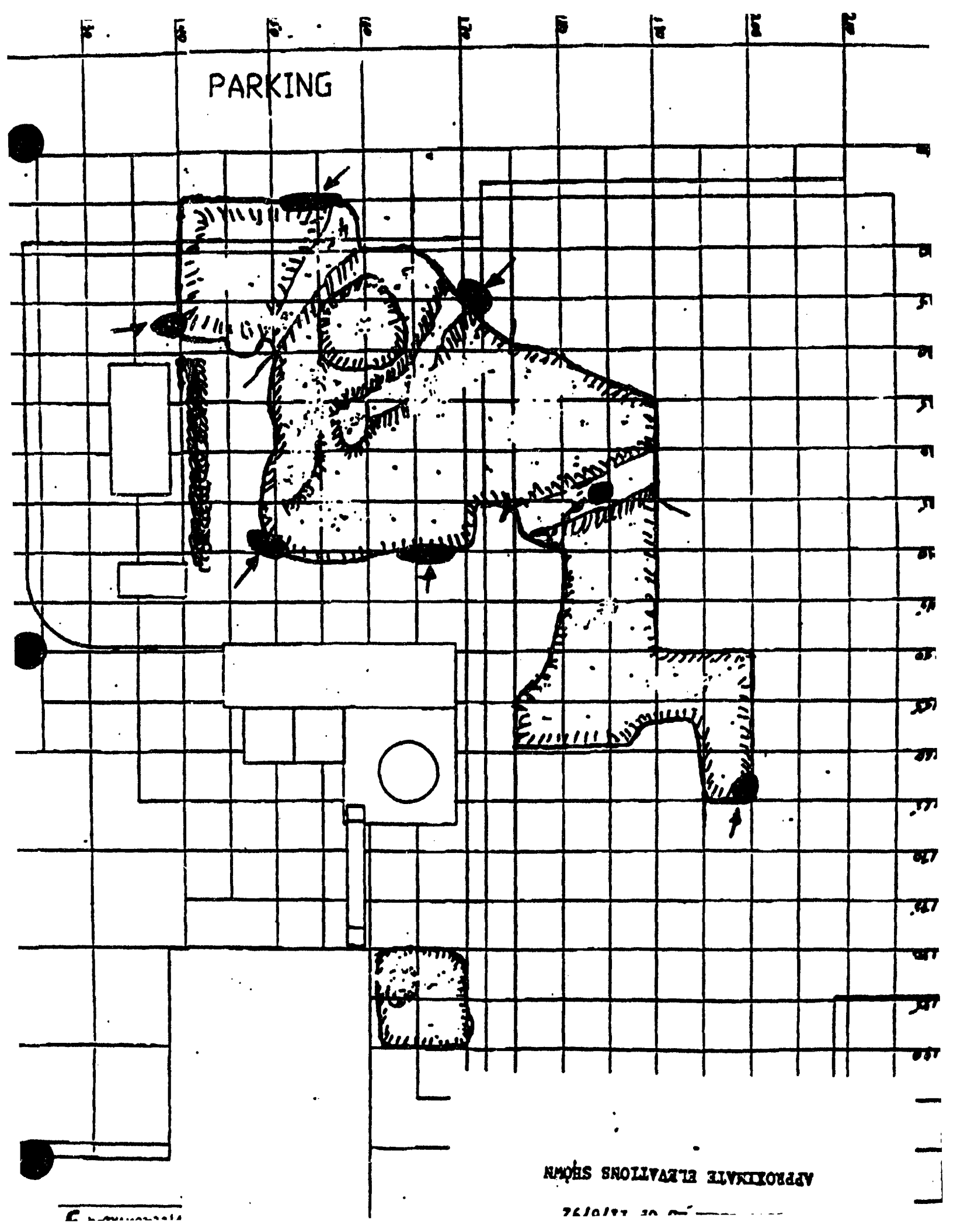
Includes analysis of soil samples by gamma spectrometry and analysis of selected samples by alpha spectroscopy for isotopic uranium.

Report Preparation - $7,700

The report preparation will include the following activities: tabulation of data, illustration, and writing and reviewing the final draft, final or interim report, word processing and reproduction.

Total Cost Estimate - $36,900

**Estimates are for survey of all areas listed in the NRC Request for Technical Assistance received by ESSAP. Reduction or increase in the number of areas being surveyed would result in changes to the original estimate in the "on-site activities" and "sample analyses" categories. Due to the nature of the survey, this estimate is a best guess site and weather conditions and survey findings may change the scope of the survey and increase or decrease the cost estimate. The NRC site representative will be notified if major changes to the scope of the survey need to be taken.*



APPROXIMATE ELEVATIONS SHOWN

OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

February 4, 1993

Mr. Jerry Roth
Region 1
Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19400

SUBJECT: CONFIRMATORY ANALYSIS, GAMMA SPECTROMETRY AND ALPHA SCREENING, TEXAS INSTRUMENTS INCORPORATED, ATTLEBORO, MASSACHUSETTS

Dear Mr. Roth:

At the request of the Nuclear Regulatory Commission (NRC), the Texas Instruments Incorporated provided the Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) with several soil samples for the purpose of evaluating the analytical results reported by the licensee. ESSAP has completed the gamma spectrometry analysis of these samples and offers the following data for your review.

The results of the ESSAP gamma spectrometry analysis are presented in Table 1. The results of the licensee's gamma spectrometry and alpha screening analyses are presented in Table 2, and are plotted in Figures 1 and 2. Based on a pair-wise comparison *t*-test, there are no statistically significant differences ($P > 0.6$) between the licensee's and the ESSAP gamma spectrometry data. In addition, for samples with a total uranium concentration of >20 pCi/g, the licensee's alpha screening data are statistically identical ($p > 0.8$) to ESSAP's gamma spectrometry data. However, for samples with a total uranium concentration of <20 pCi/g, the alpha screening data are statistically different ($p < 0.001$) from ESSAP's gamma spectrometry analysis. This fact should not be a concern because the alpha screening analysis appears to provide a more conservative estimate.

However, it should be noted that according to the licensee, the alpha screening data presented here are based on an average of 5 to 10 samples which tends to mask any significant variation among the individual samples. Therefore, because only single measurements are taken in the actual field surveys, reproducibility may still be a concern unless data to the contrary are presented. The uncertainties associated with these measurements, including those of gamma

spectrometry, may be rather high and cannot be accurately estimated. The method of statistical analysis utilized here does not take into account the level of uncertainty associated with individual measurements.

If there are any questions or you need additional information, please do not hesitate to contact me at (615) 576-3355 or Michele Landis at (615) 576-2908.

Sincerely,

Armin Jaberaboansari
Health Physicist/Project Leader
Environmental Survey
and Site Assessment Program

cc: J. Parrott, NRC/NMSS
T. Mo, NRC/NMSS
D. Tiktinsky, NRC/NMSS
J. Swift/F.Brown, NRC/NMSS
J. Kinneman, NRC/Region I
M. Landis, ORISE
J. Berger, ORISE
PMDA, 6E6
File/205

TABLE 1

ESSAP GAMMA SPECTROMETRY ANALYSIS OF SOIL SAMPLES TEXAS INSTRUMENTS, INC., ATTLEBORO, MASSACHUSETTS

Sample Identification[a]	Uranium Concentrations (pCi/g)[b]		
	U-235	U-238	Total Uranium[c]
134N, 118E	0.1 ± 0.1	3.0 ± 0.9	5.3
MP 4	0.2 ± 0.1	5.0 ± 1.0	9.6
MP 5	0.2 ± 0.1	6.0 ± 1.0	11
235N, 156E	0.4 ± 0.1	4.0 ± 1.0	13
MP 1-2	0.3 ± 0.1	8.0 ± 1.0	15
138N, 113E	0.3 ± 0.1	8.0 ± 1.0	15
Rock Pile	0.7 ± 0.1	12.0 ± 2.0	28
BFP 1	0.8 ± 0.1	18.0 ± 3.0	36
RS 410-411	1.7 ± 0.2	36.0 ± 5.0	75
RS 414	1.3 ± 0.2	47.0 ± 7.0	77

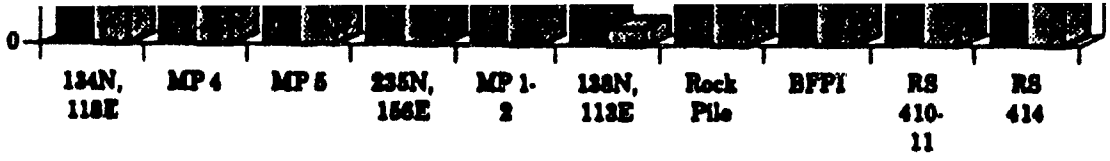
[a] Sample identifications were provided by the Texas Instruments, Inc.
[b] Uncertainties represent the 95% confidence level based only on counting statistics.
[c] Total uranium concentrations are calculated based on a U-234 to U-235 activity ratio of 22.

TABLE 2

COMPARISON OF URANIUM CONCENTRATIONS IN SOIL SAMPLES AS DETERMINED BY ESSAP AND THE TEXAS INSTRUMENTS, INC.

Sample Identification	Total Uranium Concentration (pCi/g)[a]		
	Gamma Spectrometry		Alpha Screening
	ESSAP	TIA[b]	TIA
134N, 118E	5.3	4.7	12.8
MP 4	9.6	21.8	14.2
MP 5	11	7.1	16.0
235N, 156E	13	12.5	19.0
MP 1-2	15	11.7	19.2
138N, 113E	15	1.3	21.4
Rock Pile	28	27.0	25.8
BFP I	36	36.8	29.9
RS 410-411	75	57.0	75.3
RS 414	77	90.8	85.0

[a] Total uranium concentrations are calculated based on a U-234 to U-235 activity ratio of 22:1.
[b] Texas Instruments, Inc., Attleboro, Massachusetts



Sample Identification

Figure 1. Comparison of ESSAP and Texas Instruments gamma spectrometry analysis.

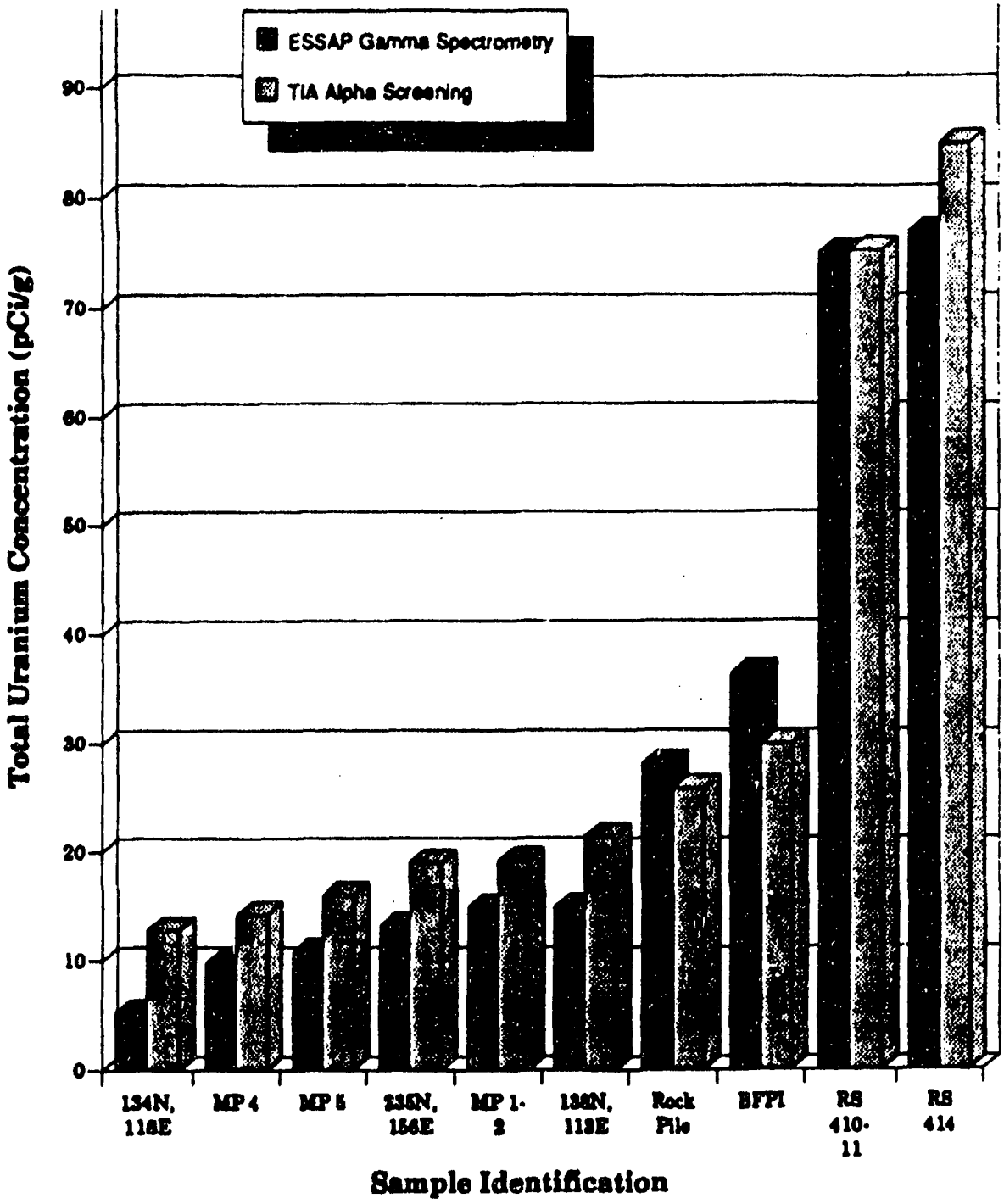


Figure 2. Comparison of ESSAP gamma spectrometry and Texas Instruments alpha screening analysis.

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Radiological Surveys of Open Land Areas

Texas Instruments Incorporated
Attleboro, Massachusetts

Attachment 1

GUILD DRILLING
BORING REPORTS

Stockade Area and
Unaffected Area Random Samples

118048
5/31/95

OFFICIAL RECORD COPY MIL 10

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. 45 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-1
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/4/94	
COMPLETE	8/4/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-1'	D	Blows not Taken					Dry, Topsoil - Brown LOAM & fine Sand	1	12"	12
		1'-2'	D	"	"	"			Dry, Brown fine to medium SAND & medium to coarse Gravel, trace silt	2	12"	11
		2'-3'	D	"	"	"			Dry, Br. fine to med. SAND & medium Gravel, trace coarse gravel, trace silt	3	12"	12
		3'-4'	D	"	"	"			Dry, Brown fine to medium SAND, trace of gray silt & coarse gravel	4	12"	9
								4'	Bottom of Boring 4'			

OFFICIAL RECORD COPY MT. 10

118945

GROUND SURFACE TO _____ USED _____ "CASING: THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med. Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO NS-1

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-2
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/4/94	a.
COMPLETE	8/4/94	p.
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-1'	D	Blows not Taken					Dry, Loam-Topsoil, Brown fine SAND & coarse Gravel	1	12"	10
		1'-2'	D	"	"	"			Dry, Brown fine SAND & coarse Gravel	2	12"	12
		2'-3'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	3	12"	12
		3'-4'	D	"	"	"			Dry, Brown fine to medium SAND & medium to coarse Gravel, trace silt	4	12"	12
								4'	Bottom of Boring 4'			

GROUND SURFACE TO ____ USED ____ "CASING: THEN ____

Sample Type
D=Dry C=Cored W=Washed
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med. Dense; 30-50 Dense; 50 + Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30 + Hard

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO. NS-2

100 WATER STREET EAST PROVIDENCE, R. I.

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-3
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/5/94	a.m. p.m.
COMPLETE	8/5/94	a.m. p.m.
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-1'	D	Blows not Taken					Dry, Topsoil - Brown fine SAND & coarse Gravel	1	12"	12
		1'-2'	D	"	"	"			Dry, Brown fine to medium SAND & medium to coarse Gravel	2	12"	12
		2'-3'	D	"	"	"			Dry, Brown fine to medium SAND & medium to coarse Gravel, trace silt	3	12"	11
		3'-4'	D	"	"	"			Dry, Brown/Dark Brown fine to medium SAND & coarse Gravel, trace silt	4	12"	10
								4'	Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ "CASING. THEN _____

Sample Type
D=Dry C=Cored W=Washed
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med. Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO. NS-3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-4
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/5/94	
COMPLETE	8/5/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-1'	D	Blows not Taken					Dry, Brown fine SAND & coarse Gravel, trace silt	1	12"	12
		1'-2'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	12
		2'-3'	D	"	"	"				3	12"	10
		3'-4'	D	"	"	"			" little silt	4	12"	4
								4'	Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D=Dry C=Cored W=Washed
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med. Dense; 30-50 Dense; 50 + Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30 + Hard

SUMMARY:
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO NS-4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-5
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/5/94	
COMPLETE	8/5/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-1'	D	Blows not Taken					Dry, Brown fine SAND & coarse Gravel	1	12"	1
		1'-2'	D	"	"	"			Dry, Rust color Brown fine to medium SAND & coarse Gravel	2	12"	1
		2'-3'	D	"	"	"			Dry, Brown fine SAND & medium to coarse Gravel, trace silt	3	12"	1
		3'-4'	D	"	"	"				4	12"	1
								4'	Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ "CASING: THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med. Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY:
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO NS-5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-6
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/5/94	a.m. p.m.
COMPLETE	8/5/94	a.m. p.m.

TOTAL HRS.
BORING FOREMAN R. Allen
INSPECTOR
SOILS ENGR.

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-1'	D	Blows not Taken					Dry, Topsoil - Brown fine SAND & coarse Gravel	1	12"	12"
		1'-2'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	11"
		2'-3'	D	"	"	"				3	12"	10"
		3'-4'	D	"	"	"			Dry, Brown fine to medium SAND & medium to coarse Gravel, trace silt	4	12"	11"
								4'	Bottom of Boring 4'			

GROUND SURFACE TO ____ USED ____ "CASING: THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med. Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO. NS-6

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-7
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/5/94	
COMPLETE	8/5/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-1'	D	Blows not Taken					Dry, Brown fine SAND & medium to coarse Gravel	1	12"	12"
		1'-2'	D	"	"	"				2	12"	9"
		2'-3'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, asphalt	3	12"	1(
		3'-4'	D	"	"	"			Dry, Brown medium SAND & coarse Gravel, trace silt	4	12"	1(
								4'	Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ "CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med. Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO NS-7

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-8

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS	CASING	SAMPLER	CORE BAR
At ____ after ____ Hours	Type	S/S	
At ____ after ____ Hours	Size I D	3½"	
	Hammer Wt	300#	BIT
	Hammer Fall	30"	

	Date	Time
START	8/5/94	
COMPLETE	8/5/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-1'	D	Blows not Taken					Dry, Brown fine SAND & coarse Gravel	1	12"	6
		1'-2'	D	"	"	"				2	12"	1
		2'-3'	D	"	"	"			Dry, Brown fine to medium SAND & medium to coarse Gravel, trace silt	3	12"	1
		3'-4'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel	4	12"	2
								4'	Bottom of Boring 4'			

GROUND SURFACE TO ____ USED ____ "CASING: THEN ____

Sample Type
D=Dry C=Cored W=Washed
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med. Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO. NS-8

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-9
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/5/94	
COMPLETE	8/8/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-1'	D	Blows not Taken					Dry, Brown fine SAND & coarse Gravel, trace silt	1	12"	7
		1'-2'	D	"	"	"			Dry, Brown fine SAND & coarse Gravel	2	12"	4
		2'-3'	D	"	"	"				3	12"	10
		3'-4'	D	"	"	"			Moist, Brown Gray fine to medium SAND, silty & mottled, trace coarse gravel	4	12"	10
								4'	Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ "CASING: THEN _____

Sample Type
D=Dry C=Cored W=Washed
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med. Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO NS-9

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-10
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/8/94	
COMPLETE	8/8/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-1'	D	Blows not Taken					Dry, Brown fine SAND & medium to coarse Gravel	1	12"	12
		1'-2'	D	"	"	"			Dry, Brown fine SAND & coarse Gravel	2	12"	9
		2'-3'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel	3	12"	6
		3'-4'	D	"	"	"			Dry, Dark Brown fine to medium SAND & medium to coarse Gravel, trace silt	4	12"	9
								4'	Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ "CASING: THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med. Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY:
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO NS-1

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-11
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/8/94	a.m. p.m.
COMPLETE	8/8/94	a.m. p.m.

TOTAL HRS.
BORING FOREMAN R. Allen
INSPECTOR
SOILS ENGR.

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-1'	D	Blows not Taken					Dry, Brown fine to medium SAND, trace coarse gravel	1	12"	11"
		1'-2'	D	"	"	"			Dry, Brown fine SAND & coarse Gravel	2	12"	7"
		2'-3'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, Black residual (similar to asphalt)	3	12"	12"
		3'-4'	D	"	"	"			Dry, Brown fine to medium SAND, trace coarse gravel, trace silt	4	12"	10"
								4'	Bottom of Boring 4'			

GROUND SURFACE TO ____ USED ____ "CASING: THEN ____

Sample Type
D=Dry C=Cored W=Washed
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med. Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO NS-11

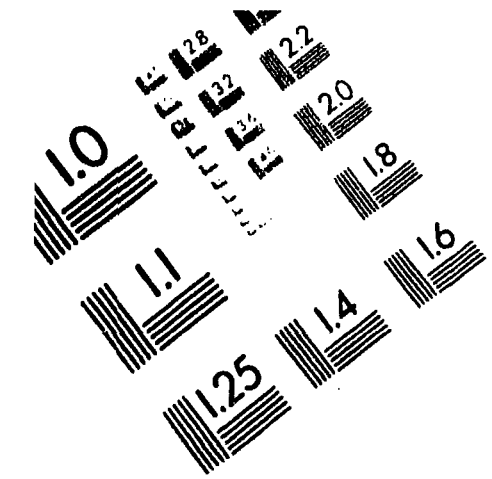
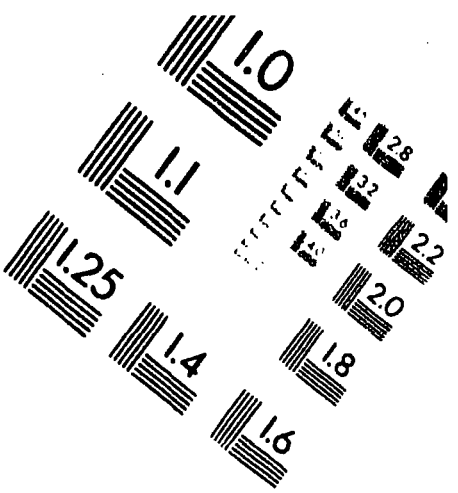
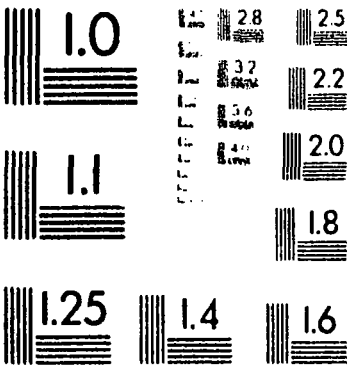
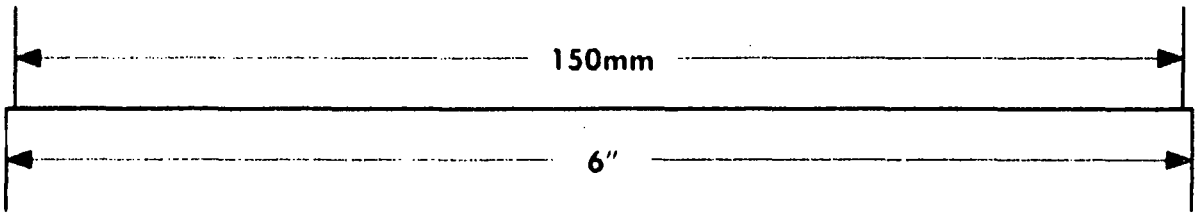
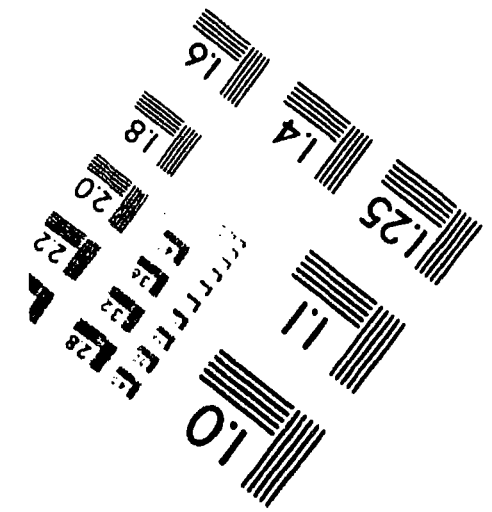


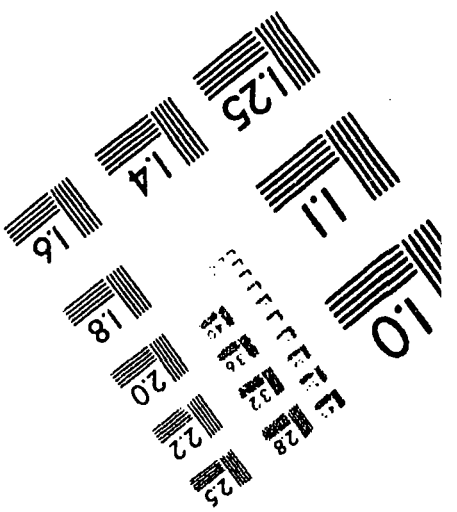
IMAGE EVALUATION TEST TARGET (MT-3)











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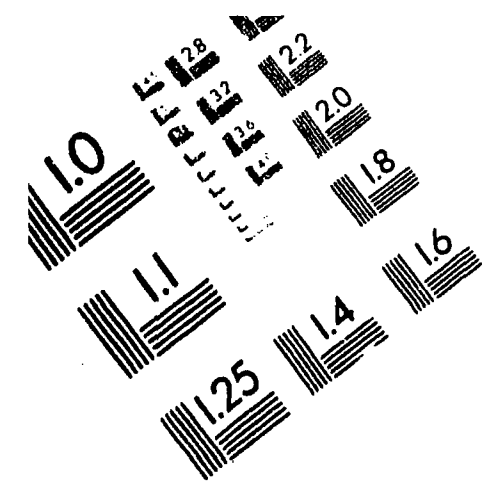
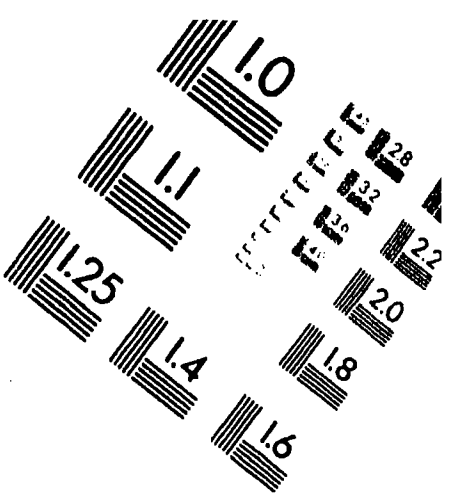
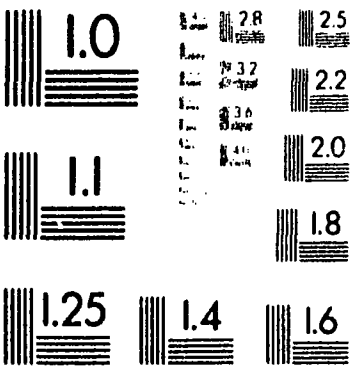
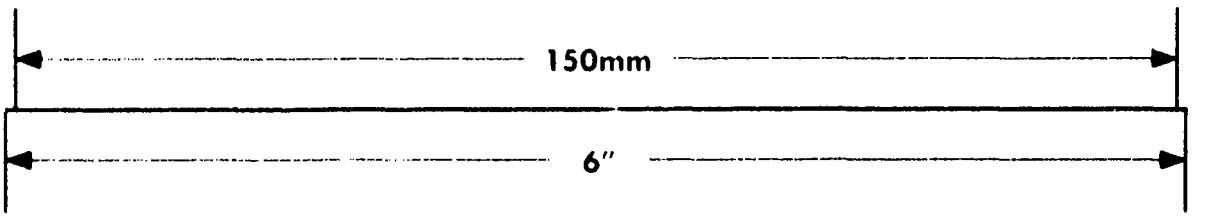
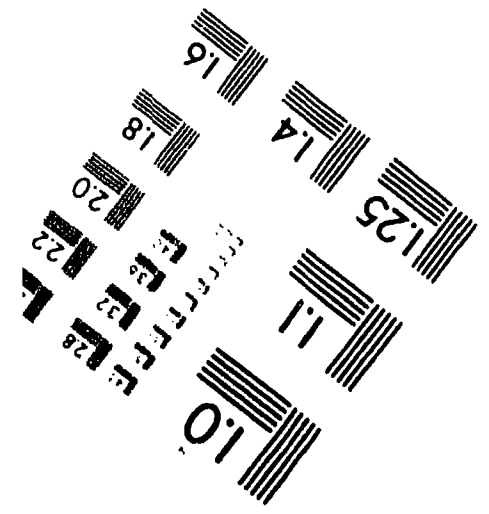


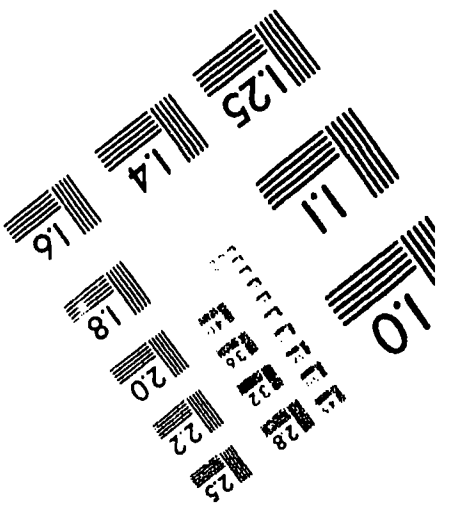
IMAGE EVALUATION TEST TARGET (MT-3)



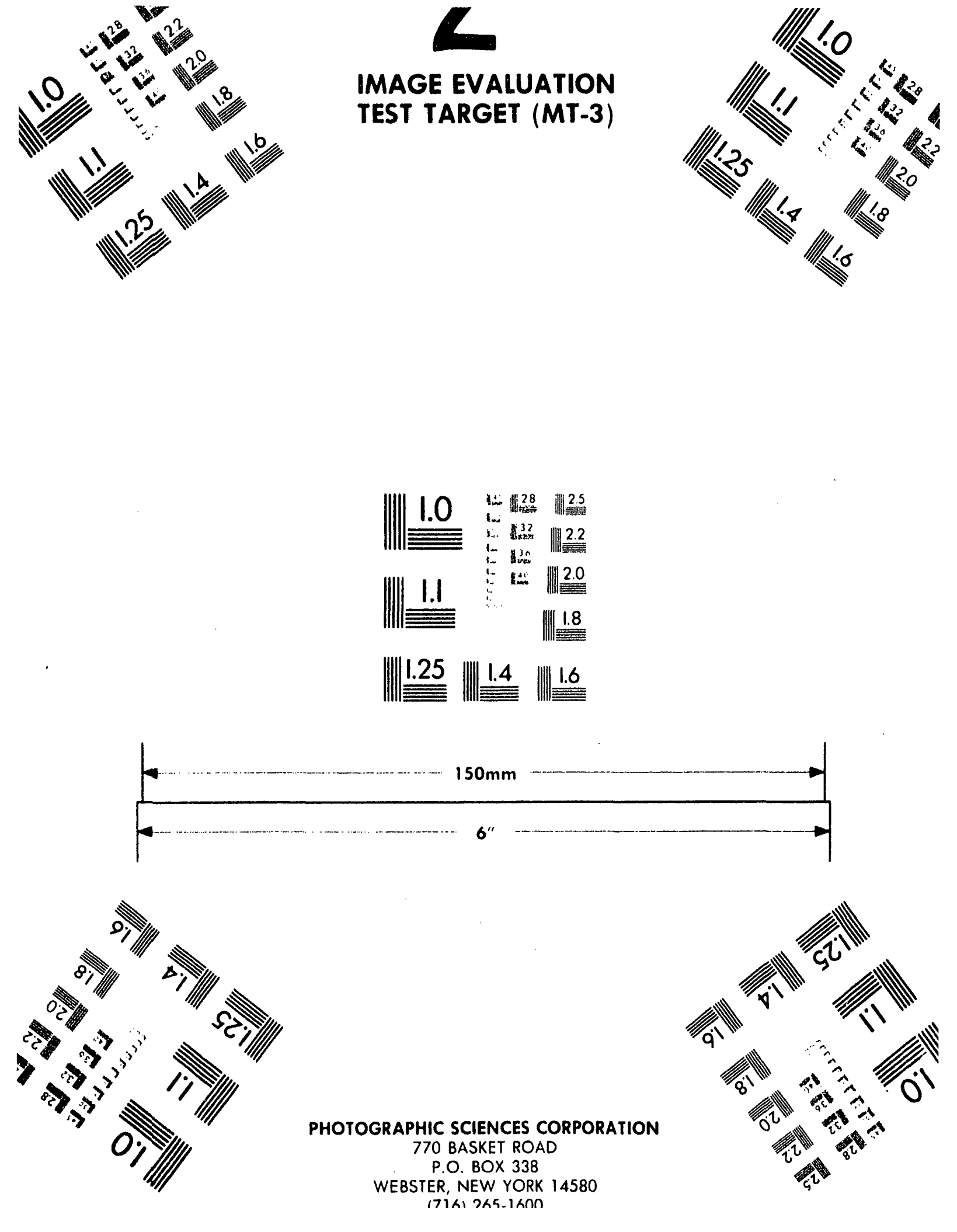








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IMAGE EVALUATION
TEST TARGET (MT-3)
1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
150mm
6"
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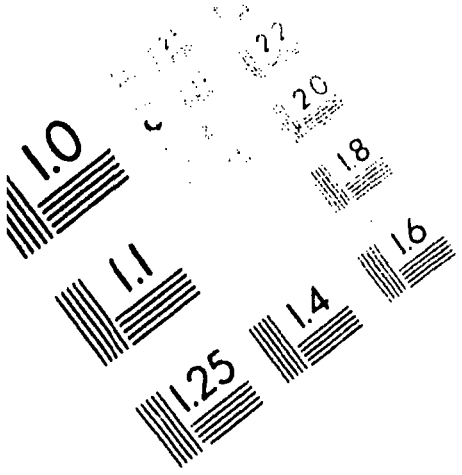
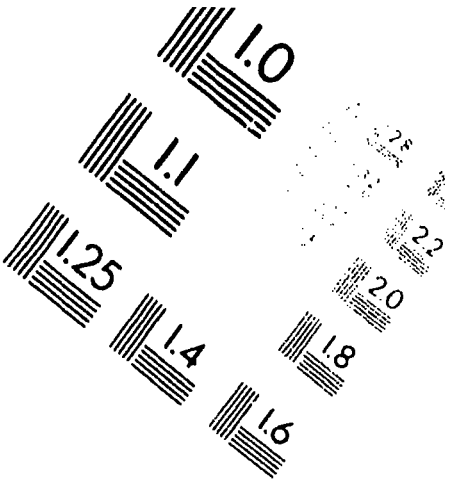
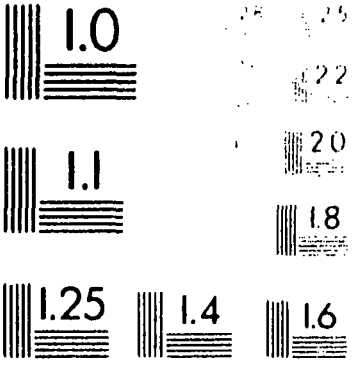
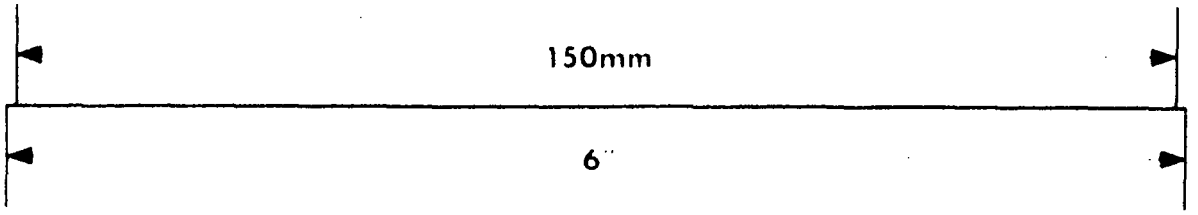
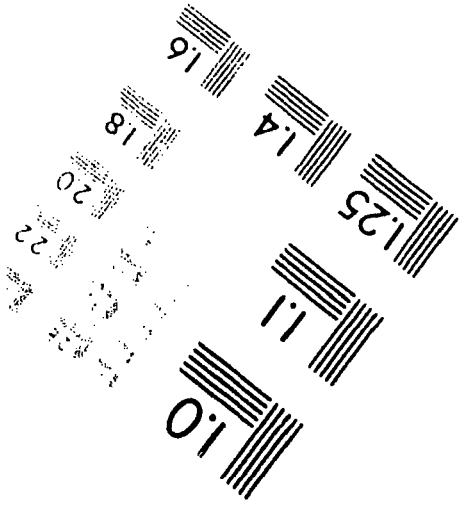


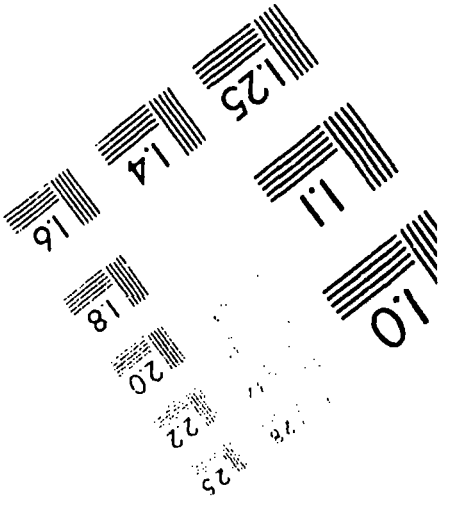
IMAGE EVALUATION TEST TARGET (MT-3)











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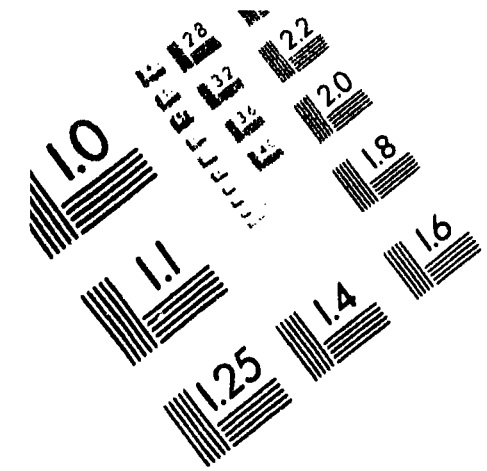
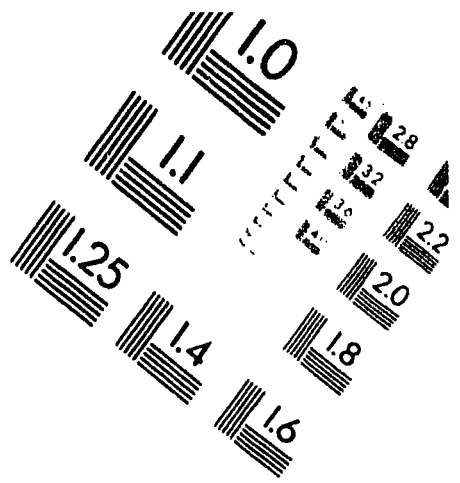
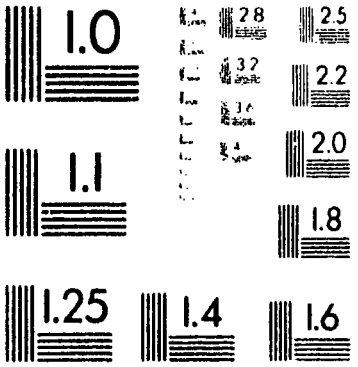
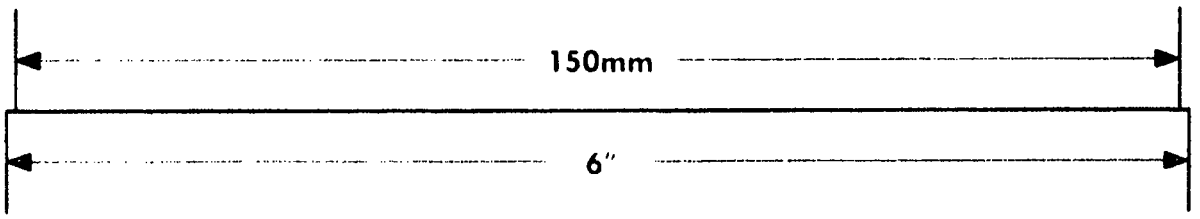
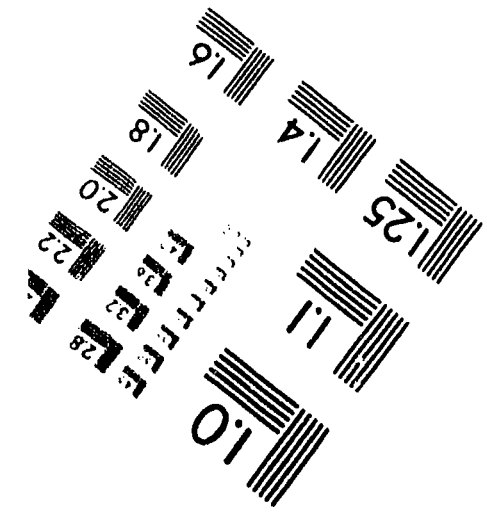


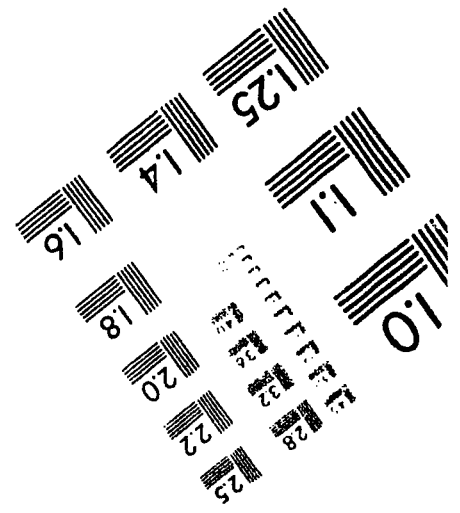
IMAGE EVALUATION TEST TARGET (MT-3)











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770 BASKET ROAD
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TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-12
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/8/94	
COMPLETE	8/8/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	8
		1.5'-2.5'	D	"	"	"			Dry, Brown, trace Gray fine to medium SAND & coarse Gravel, trace silt	2	12"	1
		2.5'-3.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	3	12"	8
		3.5'-4.5'	D	"	"	"			(Pushed Cobble) Dry, Brown fine to medium SAND & coarse Gravel, trace silt	4	12"	3
								4.5'				
									Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring ____
Samples 4

HOLE NO NS-12

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-13
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.
REPORT SENT TO above / Bldg. #5 | PROJ NO. | OFFSET
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/8/94	
COMPLETE	8/8/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	
		1.5'-2.5'	D	"	"	"			Dry, Gray fine to med. SAND & coarse Gravel, tr. silt, Black residual, type of asphalt	2	12"	
		2.5'-3.5'	D	"	"	"			Dry, Gray silty fine SAND & coarse Gravel, trace silt	3	12"	
		3.5'-4.5'	D	"	"	"			Dry, Light Brown, Black & Gray silty fine SAND & coarse Gravel	4	12"	
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D - Dry C Cored A Auger
UP - Undisturbed Piston
TP - Test Pit A Auger V Vane Test
UT - Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density	Cohesive Consistency
0-10 Loose	0-4 Soft
10-30 Med Dense	4-8 M/Stiff
30-50 Dense	8-15 Stiff
50 + Very Dense	15-30 V-Stiff
	30 + Hard

SUMMARY
Earth Boring 4.5'
Rock Coring ____
Samples 4

HOLE NO NS-13

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-14
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/8/94	
COMPLETE	8/8/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Rust colored Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	1
		1.5'-2.5'	D	"	"	"			Dark Gray/Black fine to medium SAND & coarse Gravel, trace silt (Dry)	2	12"	8
		2.5'-3.5'	D	"	"	"			Dry, Brown, Gray/Black fine to medium SAND & coarse Gravel, trace silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Moist, Brown silty fine to medium SAND & coarse Gravel	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Auger
UP: Undisturbed Piston
TP: Test Pit A Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O.D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-14

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-15
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START		
COMPLETE		
TOTAL HRS		

BORING FOREMAN R. Allen
INSPECTOR
SOILS ENGR.

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	
		1.5'-2.5'	D	"	"	"			Dry, Grayish Brown silty fine to medium SAND & coarse Gravel	2	12"	
		2.5'-3.5'	D	"	"	"			Dry, Dark Br. to Black silty PEAT & fine Sand, trace of coarse gravel	3	12"	
		3.5'-4.5'	D	"	"	"			Dry, Brown fine SAND & coarse Gravel, trace silt, Black resembles peat, has	4	12"	
								4.5'	some plasticity to it			
									Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored A: Auger
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-1

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

HOLE NO NS-16
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/8/94	
COMPLETE	8/8/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	1
		1.5'-2.5'	D	"	"	"				2	12"	1
		2.5'-3.5'	D	"	"	"			Dry, Grayish Brown fine to medium SAND & coarse Gravel, trace silt	3	12"	1
		3.5'-4.5'	D	"	"	"				4	12"	1
								4.5'				
									Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ "CASING THEN ____

Sample Type
D: Dry C: Cored W: Auger
UP: Undisturbed Piston
TP: Test Pit A Auger V Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-16

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-17
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/8/94	a.m.
COMPLETE	8/8/94	p.m.
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND, trace coarse gravel, trace silt	1	12"	1
		1.5'-2.5'	D	"	"	"				2	12"	1
		2.5'-3.5'	D	"	"	"			Dry, Dark Brown fine to medium SAND & coarse Gravel, little silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Dry, Brown fibrous SILT, little fine sand, trace coarse gravel	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A Auger V Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50 + Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30 + Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-17

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-18

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size. D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/8/94	
COMPLETE	8/8/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	
		1.5'-2.5'	D	"	"	"			Dry, Brown Gray fine to medium SAND & coarse Gravel, trace silt	2	12"	
		2.5'-3.5'	D	"	"	"			Moist, Brown silty fine to medium SAND, trace coarse gravel	3	12"	
		3.5'-4.5'	D	"	"	"			Moist, Gray & Brown fine	4	12"	
								4.5'	SAND, trace coarse gravel			
									Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5
Rock Coring
Samples 4

HOLE NO NS-1

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-19
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/9/94	
COMPLETE	8/9/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel	1	12"	1
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	9
		2.5'-3.5'	D	"	"	"			Dry, Gray medium SAND & coarse Gravel	3	12"	1
		3.5'-4.5'	D	"	"	"			Dry, Dark Brown fine SAND, trace silt, fiber & gravel	4	12"	6
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med. Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-19

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-20

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/9/94	
COMPLETE	8/9/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not	Taken				Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	
		1.5'-2.5'	D	"	"	"				2	12"	
		2.5'-3.5'	D	"	"	"			Gray fine to medium SAND & coarse Gravel, trace silt, trace wood	3	12"	
		3.5'-4.5'	D	"	"	"			Brown fine to medium SAND & coarse Gravel, trace of wood, trace silt	4	12"	
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ "CASING THEN _____

Sample Type
D-Dry C-Cored W-Washed
UP-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test
UT-Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50+ Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30+ Hard

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-20

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-21

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/9/94	
COMPLETE	8/9/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel	1	12"	1
		1.5'-2.5'	D	"	"	"			Dry, Brown fine SAND & coarse Gravel, trace silt	2	12"	
		2.5'-3.5'	D	"	"	"			Dry, Brown Gray fine to medium SAND & coarse Gravel, trace silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Dry, Dark Brown type of PEAT, little fibers, trace coarse gravel	4	12"	-
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-21

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-22
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/9/94	
COMPLETE	8/9/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel	1	12"	1
		1.5'-2.5'	D	"	"	"				2	12"	1
		2.5'-3.5'	D	"	"	"			Dry, Gray fine to medium SAND & coarse Gravel, trace silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Moist, Gray fine to medium SAND & coarse Gravel, trace silt	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D-Dry C-Cored W-Washed
UP-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test
UT-Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140lb Wt x 30" fall on 2 O.D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50+	Very Dense	15-30	V-Stiff
		30+	Hard

SUMMARY
Earth Boring 4.5
Rock Coring
Samples 4

HOLE NO NS-2

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-23
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/9/94	
COMPLETE	8/9/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" or Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel	1	12"	1
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	1
		2.5'-3.5'	D	"	"	"			Dry, Dark Brown fine to medium SAND & coarse Gravel	3	12"	1
		3.5'-4.5'	D	"	"	"			Brown Gray fine to medium SAND, trace silt, trace of coarse gravel	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring ____
Samples 4

HOLE NO NS-2

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-24
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/9/94	
COMPLETE	8/9/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel	1	12"	1
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND, trace coarse gravel	2	12"	1
		2.5'-3.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Moist, Brown silty fine SAND	4	12"	7
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C Cored W Washed
U Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-2

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-25

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/9/94	
COMPLETE	8/9/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel	1	12"	1
		1.5'-2.5'	D	"	"	"			Dry, Brown Gray fine to medium SAND, little silt, trace coarse gravel	2	12"	1
		2.5'-3.5'	D	"	"	"			Dry, Brown Gray silty fine to medium SAND, trace of coarse gravel	3	12"	6
		3.5'-4.5'	D	"	"	"			Dry, Gray silty fine SAND, trace coarse gravel	4	12"	6
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140lb Wt x 30 fall on 2" O.D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-25

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ. NO.
SAMPLES SENT TO Taken at Site OUR JOB NO. 95-41

DATE
HOLE NO. NS-26
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/9/94	
COMPLETE	8/9/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-1'	D	Blows not Taken					Dry, Topsoil-Loam, Brown fine SAND	1	12"	10'
		1'-2'	D	"	"	"			Dry, Brown fine SAND, trace silt, trace of coarse gravel	2	12"	4'
		2'-3'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	3	12"	11'
		3'-4'	D	"	"	"			Brown, tint of Gray medium SAND & coarse Gravel, trace silt	4	12"	11'
								4'	Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt. x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30+ Hard

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-27

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size, D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/11/94	
COMPLETE	8/11/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not	Taken				Dry, Brown fine to medium SAND & coarse Gravel	1	12"	1
		1.5'-2.5'	D	"	"	"			" trace silt	2	12"	1
		2.5'-3.5'	D	"	"	"				3	12"	1
		3.5'-4.5'	D	"	"	"				4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ "CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" OD Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-27

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO NS-28

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/11/94	
COMPLETE	8/11/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	1(
		1.5'-2.5'	D	"	"	"				2	12"	1(
		2.5'-3.5'	D	"	"	"				3	12"	1(
		3.5'-4.5'	D	"	"	"				4	12"	1(
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-28

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-29

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/11/94	
COMPLETE	8/11/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Dark Brown fine to med SAND, little coarse gravel (Has noticable Odor)	1	12"	7
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel	2	12"	9
		2.5'-3.5'	D	"	"	"				3	12"	6
		3.5'-4.5'	D	"	"	"			(No Recovery)	4	12"	0
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-29

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-30

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/11/94	
COMPLETE	8/11/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt (Has Odor)	1	12"	8
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt (little odor)	2	12"	8
		2.5'-3.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel	3	12"	3
		3.5'-4.5'	D	"	"	"			Moist, Brown silty fine to medium SAND & coarse Gravel	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density	Cohesive Consistency	
0-10 Loose	0-4 Soft	30 + Hard
10-30 Med Dense	4-8 M/Stiff	
30-50 Dense	8-15 Stiff	
50 + Very Dense	15-30 V-Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-30

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-31

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/11/94	
COMPLETE	8/11/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel, tr. silt (Has Odor)	1	12"	1'
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	1'
		2.5'-3.5'	D	"	"	"				3	12"	1'
		3.5'-4.5'	D	"	"	"			" becomes Moist	4	12"	1'
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ "CASING THEN _____

Sample Type
D-Dry C-Cored W-Washed
UP-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test
UT-Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples

HOLE NO NS-31

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-32
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/12/94	
COMPLETE	8/12/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, tr. silt (Has Odor)	1	12"	1
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	9
		2.5'-3.5'	D	"	"	"				3	12"	7
		3.5'-4.5'	D	"	"	"				4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring ____
Samples 4

HOLE NO NS-32

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-33

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/12/94	
COMPLETE	8/12/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0.5'-1.5'	D	Blows not Taken					Dry, Dark Brown fine to med SAND & coarse Gravel, trace silt (Odor Present)	1	12"	10
		1.5'-2.5'	D	"	"	"			Dry, Dark Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	12
		2.5'-3.5'	D	"	"	"				3	12"	8"
		3.5'-4.5'	D	"	"	"			Moist, PEAT, trace silt	4	12"	12
								4.5'				
									Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-33

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-34
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/12/94	
COMPLETE	8/12/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0.5'-1.5'	D	Blows not Taken					Dry, Dark Brown fine to med SAND & coarse Gravel, trace silt (little odor)	1	12"	1
		1.5'-2.5'	D	"	"	"			Dry, Brown medium SAND & coarse Gravel, trace silt	2	12"	7
		2.5'-3.5'	D	"	"	"			Dry, Dark Brown fine to medium SAND & coarse Gravel, trace silt	3	12"	3
		3.5'-4.5'	D	"	"	"			" becomes Moist	4	12"	5
								4.5'				
									Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring ____
Samples 4

HOLE NO NS-34

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-35

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/17/94	
COMPLETE	8/17/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown medium SAND & coarse Gravel, trace silt	1	12"	1(
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	1
		2.5'-3.5'	D	"	"	"			Dry, Dark Brown medium SAND & coarse Gravel, trace silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Dry, Dark Brown, Light Br. & Gray fine to medium SAND & coarse Gravel, little silt	4	12"	1(
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-35

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-36

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/17/94	
COMPLETE	8/17/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	1
		1.5'-2.5'	D	"	"	"				2	12"	1
		2.5'-3.5'	D	"	"	"			(Pushed Cobble)	3	12'	
		3.5'-4.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	4	12'	
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med. Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-3

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-37

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/17/94	
COMPLETE	8/17/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	
		1.5'-2.5'	D	"	"	"			Moist, Gray medium SAND & coarse Gravel, trace silt, trace wood	2	12"	
		2.5'-3.5'	D	"	"	"			Wet, Brown medium SAND & coarse Gravel, trace silt, trace wood	3	12"	
		3.5'-4.5'	D	"	"	"			Dark Brown PEAT, trace silt, trace wood	4	12"	
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density
0-10 Loose
10-30 Med Dense
30-50 Dense
50 + Very Dense

Cohesive Consistency
0-4 Soft
4-8 M/Stiff
8-15 Stiff
15-30 V-Stiff
30 + Hard

SUMMARY
Earth Boring 4.5
Rock Coring
Samples 4

HOLE NO NS-3

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-38

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/17/94	
COMPLETE	8/17/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine SAND & coarse Gravel	1	12"	
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	
		2.5'-3.5'	D	"	"	"				3	12"	1
		3.5'-4.5'	D	"	"	"				4	12"	
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ "CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5
Rock Coring _____
Samples 4

HOLE NO NS-3

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-39

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At ____ after ____ Hours

At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/22/94	
COMPLETE	8/22/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	SAMPLE Pen
		0.5'-1.5'	D	Blows not Taken					Dry, Brown medium SAND & medium to coarse Gravel, little silt (slight odor)	1	12"
		1.5'-2.5'	D	"	"	"			Dry, Light Brown fine to medium SAND & coarse Gravel, trace silt (slight odor)	2	12"
		2.5'-3.5'	D	"	"	"			Dry, Grayish Brown medium SAND & coarse Gravel, trace silt (slight odor)	3	12"
		3.5'-4.5'	D	"	"	"			Dry, Dark Brown type of PEAT trace silt (slight odor)	4	12"
								4.5'	Bottom of Boring 4.5'		

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D-Dry C-Cored W-Washed
UP-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test
UT-Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5
Rock Coring ____
Samples 4

HOLE NO NS-3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-40
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/22/94	
COMPLETE	8/22/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
									(Purged Water)			
		0.5'-1.5'	D	Blows not		Taken			Wet, Gray medium SAND & coarse Gravel	1	12"	1
		1.5'-2.5'	D	"	"	"			Dry, Gray COBBLES, little fine to medium sand, trace silt	2	12"	
		2.5'-3.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Moist, Dark Brown type of PEAT	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED CASING THEN ____

Sample Type
D Dry C Cored A Auger
UD Undisturbed Piston
TP Test Pit V Auger & Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring ____
Samples 4

HOLE NO NS-4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ. NO
SAMPLES SENT TO Taken at Site OUR JOB NO. 95-41

DATE
HOLE NO. NS-41
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/22/94	
COMPLETE	8/22/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown to Black medium SAND & coarse Gravel	1	12"	
		1.5'-2.5'	D	"	"	"			Pushed Cobble	2	12"	
		2.5'-3.5'	D	"	"	"			Pushed Cobble	3	12"	
		3.5'-4.5'	D	"	"	"			Pushed Cobble	4	12"	
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored A Auger
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO. NS-41

100 WATER STREET EAST PROVIDENCE, R. I.

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-42
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O.D.		3½"	
Hammer Wt.		300#	BIT
Hammer Fall		30"	

	Date	Time
START		
COMPLETE		
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler Foot 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel (Odor)	1	12"	
		1.5'-2.5'	D	"	"	"			Dry, Fine to medium SAND & coarse Gravel, trace wood	2	12"	
		2.5'-3.5'	D	"	"	"			(No Recovery)	3	12"	
		3.5'-4.5'	D	"	"	"			(No Recovery)	4	12"	
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thin-wall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO. NS-4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

HOLE NO. NS-43
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/22/94	
COMPLETE	8/22/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	
		1.5'-2.5'	D	"	"	"			same as above	2	12"	
		2.5'-3.5'	D	"	"	"			Dry, Brown fine to medium SAND, little coarse gravel	3	12"	
		3.5'-4.5'	D	"	"	"			Dry, Reddish Brown PEAT, trace roots	4	12"	12
								4.5'				
									Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thin-wall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO. NS-43

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.

REPORT SENT TO above / Bldg. #5 | PROJ NO

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-44

LINE & STA.

OFFSET

SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/22/94	
COMPLETE	8/22/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt (sweet odor)	1	12"	
		1.5'-2.5'	D	"	"	"			same as above	2	12"	
		2.5'-3.5'	D	"	"	"			Dry, Brown fine to medium SAND, little coarse gravel, trace silt	3	12"	
		3.5'-4.5'	D	"	"	"			same as above	4	12"	
								4.5'				
									Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D-Dry C Cored A-Auger
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50+	Very Dense	15-30	V Stiff
		30+	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-44

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-45
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/22/94	
COMPLETE	8/22/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample: From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown medium SAND & coarse Gravel	1	12"	1
		1.5'-2.5'	D	"	"	"			same as above	2	12"	
		2.5'-3.5'	D	"	"	"			Moist, Dark Brown medium SAND & coarse Gravel, trace silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Dry, Brown medium SAND & coarse Gravel, trace silt	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D-Dry C-Cored W-Auger
UP-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO. NS-45

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-46

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/22/94	
COMPLETE	8/22/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown medium SAND, little coarse gravel	1	12"	1
		1.5'-2.5'	D	"	"	"			same as above	2	12"	
		2.5'-3.5'	D	"	"	"			Brown fine to medium SAND, little coarse gravel, trace silt	3	12"	
		3.5'-4.5'	D	"	"	"			same as above	4	12"	
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Augered
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-46

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.

REPORT SENT TO above / Bldg. #5 | PROJ. NO.

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE

HOLE NO. NS-47

LINE & STA.

OFFSET

SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/23/94	
COMPLETE	8/23/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt (slight odor)	1	12"	9
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	2
		2.5'-3.5'	D	"	"	"			" "	3	12"	1
		3.5'-4.5'	D	"	"	"			Dry, Brown medium SAND, little coarse gravel, little silt	4	12"	8
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ. NO.
OUR JOB NO. 95-41

DATE
HOLE NO. NS-48
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/23/94	
COMPLETE	8/23/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not	Taken				Dry, Brown fine to medium SAND & coarse Gravel, little silt	1	12"	1
		1.5'-2.5'	D	"	"	"			Dry, Brown silty fine to medium SAND, trace coarse gravel	2	12"	1
		2.5'-3.5'	D	"	"	"			Dry, Light Brown silty fine to medium SAND, trace coarse gravel	3	12"	
		3.5'-4.5'	D	"	"	"			Dry, PEAT	4	12"	
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO. NS-48

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-49

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size: D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/23/94	
COMPLETE	8/23/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"
		1.5'-2.5'	D	"	"	"			" "	2	12"
		2.5'-3.5'	D	"	"	"			(Pushed Cobble - No Rec.)	3	12"
		3.5'-4.5'	D	"	"	"			Wet, Dark Brown to Black type of PEAT, little coarse gravel	4	12"
								4.5'	Bottom of Boring 4.5'		

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A-Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2 O.D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50 + Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30 + Hard

SUMMARY
Earth Boring 4.5
Rock Coring
Samples 4

HOLE NO NS-49

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO NS-50

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/23/94	
COMPLETE	8/23/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Light Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	9"
		1.5'-2.5'	D	"	"	"			Dry, Brown silty fine to medium SAND & coarse Gravel, trace silt	2	12"	2"
		2.5'-3.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	3	12"	10
		3.5'-4.5'	D	"	"	"			Dry to Moist, Brown fine to medium silty SAND & coarse Gravel	4	12"	10
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ "CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density	Cohesive Consistency
0-10 Loose	0-4 Soft
10-30 Med Dense	4-8 M/Stiff
30-50 Dense	8-15 Stiff
50 + Very Dense	15-30 V-Stiff
	30 + Hard

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-50

EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-51
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/23/94	
COMPLETE	8/23/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not	Taken				Dry, Gray & Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	
		1.5'-2.5'	D	"	"	"			Moist, Dark Brown type of PEAT, trace of roots & fibers (Odor)	2	12"	1
		2.5'-3.5'	D	"	"	"			same as above	3	12"	1
		3.5'-4.5'	D	"	"	"			Moist, Dark Brown to Light Brown silty fine SAND, little coarse gravel (Odor)	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 0.0 Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50+ Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30+ Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO. NS-51

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-52
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/23/94	a
COMPLETE	8/23/94	p
TOTAL HRS.		

BORING FOREMAN R. Allen
INSPECTOR
SOILS ENGR.

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows	not	Taken			Dry, Brown fine to medium SAND & coarse Gravel, trace silt & concrete	1	12"	1
		1.5'-2.5'	D	"	"	"			Wet, Dark Brown medium SAND & coarse Gravel, trace silt	2	12"	7
								2.5'	Bottom of Boring 2.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30 fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 2.5'
Rock Coring
Samples 2

HOLE NO NS-52

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ. NO.
OUR JOB NO 95-41

HOLE NO. NS-53
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/23/94	
COMPLETE	8/23/94	
TOTAL HRS.		
BORING FOREMAN	S. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Gray fine to medium SAND & coarse Gravel, trace silt	1	12"	
		1.5'-2.5'	D	"	"	"			Dry, Gray silty fine to medium SAND & coarse Gravel	2	12"	
		2.5'-3.5'	D	"	"	"			Moist to Wet, Reddish Brown fine to medium SAND & coarse Gravel, trace silt (Bad Odor)	3	12"	
		3.5'-4.5'	D	"	"	"			Wet, Reddish Brown silty fine to medium SAND & coarse Gravel	4	12"	
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-53

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-54

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after ____ Hours

At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/24/94	
COMPLETE	8/24/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not	Taken				Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	1
		1.5'-2.5'	D	"	"	"			Moist, Grayish Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	1
		2.5'-3.5'	D	"	"	"			Moist, Brown fine to medium SAND & coarse Gravel, trace silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Moist, Brown silty fine to medium SAND & coarse Gravel	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-54

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-56

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after ___ Hours

At _____ after ___ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/24/94	
COMPLETE	8/24/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample: From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12	1
		1.5'-2.5'	D	"	"	"			Moist, Grayish Brown silty fine to medium SAND & coarse Gravel	2	12	1
		2.5'-3.5'	D	"	"	"			" "	3	12	1
		3.5'-4.5'	D	"	"	"			Moist, Brown fine to medium SAND & coarse Gravel, trace silt	4	12	
								4.5'	Bottom of Boring 4.5'			

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GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-56

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-57

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START		
COMPLETE		
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown medium to coarse SAND & coarse Gravel, trace silt	1	12"	
		1.5'-2.5'	D	"	"	"			(No Recovery)	2	12"	
		2.5'-3.5'	D	"	"	"			Moist, Brown medium to coarse SAND & coarse Gravel, trace silt	3	12"	
		3.5'-4.5'	D	"	"	"			(Slight Chemical Odor)	4	12"	
								4.5'				
									Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-5

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-58
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START		
COMPLETE		
TOTAL HRS.		

BORING FOREMAN R. Allen
INSPECTOR
SOILS ENGR.

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0.5'-1.5'	D	Blows not Taken					Brown silty fine to medium SAND & coarse Gravel	1	12"	4
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt (Odor-Hit Chem. Line)	2	12"	7
		2.5'-3.5'	D	"	"	"			Dry, Brown fine to medium SAND, trace silt, trace coarse gravel	3	12"	4
		3.5'-4.5'	D	"	"	"				4	12"	6
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50 + Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30 + Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-58

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

HOLE NO. NS-59
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/24/94	
COMPLETE	8/24/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From - To 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & medium to coarse Gravel, trace silt	1	12"	8
		1.5'-2.5'	D	"	"	"			Dry, Brown silty fine to medium SAND & coarse Gravel	2	12"	1
		2.5'-3.5'	D	"	"	"			Moist, Brown silty fine to medium SAND & coarse Gravel, trace silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Moist, Brown medium SAND & coarse Gravel, trace silt	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50+ Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30+ Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-59

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-60
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/24/94	
COMPLETE	8/24/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not		Taken			Dry, Gray fine to medium SAND & coarse Gravel, trace silt	1	12	1
		1.5'-2.5'	D	"	"	"			Dry, Gray Brown fine to medium SAND & coarse Gravel, trace silt	2	12	1
		2.5'-3.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	3	12	1
		3.5'-4.5'	D	"	"	"			Moist to Wet, Brown fine to medium SAND & coarse Gravel, trace silt	4	12	1
								4.5'				
									Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50+ Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30+ Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-6

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-61
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/24/94	
COMPLETE	8/24/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel, trace silt, wood & plastic (Odor)	1	12"	12
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	9
		2.5'-3.5'	D	"	"	"			Dry to Moist, Brown silty fine to medium SAND & coarse Gravel	3	12"	12
		3.5'-4.5'	D	"	"	"			Moist to Wet, Brown silty fine to medium SAND & coarse Gravel	4	12"	10
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" OD Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-61

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-62

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/24/94	
COMPLETE	8/24/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
									Dry, Brown TOPSOIL & fine SAND, trace roots & coarse gravel			
		0.5'-1.5'	D	Blows not		Taken				1	12	12
									Dry, Brown fine SAND & coarse Gravel, trace silt			
		1.5'-2.5'	D	"	"	"				2	12	12
									Moist, Brown fine to medium SAND & coarse Gravel, trace silt			
		2.5'-3.5'	D	"	"	"				3	12	12
									Moist, Gray silty fine to medium SAND & coarse Gravel			
		3.5'-4.5'	D	"	"	"				4	12	11
								4.5'				
									Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D-Dry C-Cored W-Washed
UP-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test
UT-Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30 fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

HOLE NO NS-62

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-63
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/25/94	a.m.
COMPLETE	8/25/94	p.m.
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Dark Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	11
		1.5'-2.5'	D	"	"	"			Dry, Grayish Brown silty fine to medium SAND, trace coarse gravel	2	12"	6
		2.5'-3.5'	D	"	"	"			(Pushed Cobble - No Rec.)	3	12"	0
		3.5'-4.5'	D	"	"	"			Moist, Gray fine to medium SAND & coarse Gravel, little silt	4	12"	2
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ "CASING THEN ____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-63

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-64
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/25/94	
COMPLETE	8/25/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not		Taken			Moist, Brown silty fine to medium SAND & coarse Gravel	1	12"	1
		1.5'-2.5'	D	"	"	"			Wet, Brown medium SAND & coarse Gravel, little silt	2	12"	
		2.5'-3.5'	D	"	"	"			Wet, Brown silty fine to medium SAND & coarse Gravel	3	12"	1
		3.5'-4.5'	D	"	"	"			" "	4	12"	4
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-6

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ. NO
OUR JOB NO 95-41

HOLE NO. NS-65
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/25/94	a.
COMPLETE	8/25/94	p.
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Gray & Brown silty fine to medium SAND & coarse Gravel	1	12"	12
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	10
		2.5'-3.5'	D	"	"	"			Moist, Dark Brown/Gray fine to medium SAND & coarse Gravel, trace silt	3	12"	12
		3.5'-4.5'	D	"	"	"			Moist, Dark Brown PEAT, trace wood & roots	4	12"	7
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

MOLE NO. NS-65

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. NS-66
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/25/94	
COMPLETE	8/25/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	
		1.5'-2.5'	D	"	"	"			Moist, Dark Brown silty fine to medium SAND, trace coarse gravel	2	12"	
		2.5'-3.5'	D	"	"	"			Wet, Gray fine to medium SAND & coarse Gravel, little silt	3	12"	
		3.5'-4.5'	D	"	"	"			Wet, Dark Brown PEAT, trace roots	4	12"	
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. NS-67
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/25/94	
COMPLETE	8/25/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12'	
		1.5'-2.5'	D	"	"	"			Moist, Dark Brown/Gray fine to medium silty SAND & coarse Gravel	2	12'	1
		2.5'-3.5'	D	"	"	"			Moist, Dark Brown fine to medium silty SAND & coarse Gravel	3	12'	
		3.5'-4.5'	D	"	"	"			Moist to Wet, Dark Brown PEAT, trace wood & roots	4	12'	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. NS-68
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/25/94	
COMPLETE	8/25/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	1
		1.5'-2.5'	D	"	"	"			Moist, Brown medium SAND & coarse Gravel, trace silt	2	12"	1
		2.5'-3.5'	D	"	"	"			(No Recovery)	3	12"	0
		3.5'-4.5'	D	"	"	"			Moist, Dark Brown to Black PEAT, trace fiber	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D-Dry C Cored A Auger
UP Undisturbed Piston
TP-Test Pit A Auger V-Vane Test
UT-Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring ____
Samples 4

HOLE NO. NS-68

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-69
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ hours
At ____ after ____ hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/25/94	
COMPLETE	8/25/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	
		1.5'-2.5'	D	"	"	"			Moist, Grayish Brown fine to medium silty SAND & coarse Gravel	2	12"	
		2.5'-3.5'	D	"	"	"			Moist, Gray fine to medium silty SAND & coarse Gravel	3	12"	
		3.5'-4.5'	D	"	"	"		4.5'	Moist, Dark Brown PEAT, trace roots	4	12"	
									Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D - Dry C - Cored W - Washed
UP - Undisturbed Piston
TP - Test Pit A - Auger V - Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring ____
Samples 4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.

REPORT SENT TO above / Bldg. #5 | PROJ. NO.

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE

HOLE NO. NS-70

LINE & STA.

OFFSET

SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/25/94	
COMPLETE	8/25/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	4
		1.5'-2.5'	D	"	"	"			" "	2	12"	7
		2.5'-3.5'	D	"	"	"			Moist, Brown fine to medium SAND, trace silt, trace coarse gravel	3	12'	5
		3.5'-4.5'	D	"	"	"			Moist, Brown medium SAND & coarse Gravel	4	12'	-
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		30 +	Hard

SUMMARY
Earth Boring 4.5'
Rock Coring _____
Samples 4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ. NO.
OUR JOB NO 95-41

DATE
HOLE NO. NS-71
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/25/94	
COMPLETE	8/25/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	1
		1.5'-2.5'	D	"	"	"			" "	2	12"	
		2.5'-3.5'	D	"	"	"			Moist, Gray Brown fine to medium SAND & coarse Gravel, little silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Wet, PEAT, trace roots	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thin-wall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ. NO.
OUR JOB NO. 95-41

HOLE NO. NS-72
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At 3.5' after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/29/94	
COMPLETE	8/29/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
									Dry, Topsoil - Brown fine to medium SAND & coarse Gravel			
		0.5'-1.5'	D	Blows not Taken						1	12"	9
									Moist, Dark Brown fine to medium SAND & coarse Gravel, trace silt			
		1.5'-2.5'	D	"	"	"				2	12"	12
									Moist to Wet, Dark Brown silty PEAT & coarse Gravel, trace wood			
		2.5'-3.5'	D	"	"	"				3	12"	8
									Wet, Brown PEAT, trace wood			
		3.5'-4.5'	D	"	"	"				4	12"	12
								4.5'				
									Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 OD Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO. NS-72

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. NS-73
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/29/94	
COMPLETE	8/29/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Dark Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	12
		1.5'-2.5'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	10
		2.5'-3.5'	D	"	"	"			" "	3	12"	11
		3.5'-4.5'	D	"	"	"			Wet, Brown medium SAND & coarse Gravel, trace silt	4	12"	3
								4.5'				
									Bottom of Boring 4.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thin-wall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt. x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ. NO.
OUR JOB NO 95-41

DATE
HOLE NO. NS-74
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/29/94	
COMPLETE	8/29/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel	1	12"	1
		1.5'-2.5'	D	"	"	"			Dry, Brown medium to fine SAND & coarse Gravel, little silt	2	12"	1
		2.5'-3.5'	D	"	"	"			Dry, Gray fine to medium SAND & coarse Gravel, trace silt	3	12"	
		3.5'-4.5'	D	"	"	"			Wet, Dark Gray fine to med. SAND & coarse Gravel, trace silt	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thin wall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-75
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	8/29/94	
COMPLETE	8/29/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	1
		1.5'-2.5'	D	"	"	"			" "	2	12"	1
		2.5'-3.5'	D	"	"	"			Wet, Dark Gray medium SAND & coarse Gravel	3	12"	8
		3.5'-4.5'	D	"	"	"			Pushed Cobble	4	12"	-
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30		

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-75

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-76
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size: D		3½"	
Hammer Wt		300#	BIT
Hammer Fal:		30"	

	Date	Time
START	9/2/94	a.m p.m
COMPLETE	9/2/94	a.m p.m
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6 on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE No	Pen	Rec
		0'-1'	D	Blows not Taken					Dry, Topsoil - Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	11
		1'-2'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	2	12"	12
		2'-3'	D	"	"	"			" "	3	12"	10
		3'-4'	D	"	"	"			Moist, Brown fine to medium SAND, trace coarse sand, trace silt	4	12"	12
								4'	Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
U: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30 fall on 2 O.D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO. NS-76

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-77
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/2/94	
COMPLETE	9/2/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-1'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	1
		1'-2'	D	"	"	"			" "	2	12"	1
		2'-3'	D	"	"	"			Moist, Dark Brown fine to medium SAND, little silt, trace coarse gravel	3	12"	7"
		3'-4'	D	"	"	"			Wet, Fibrous PEAT, trace roots	4	12"	1
								4'	Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO. NS-77

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-78
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/2/94	
COMPLETE	9/2/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-1'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	1
		1'-2'	D	"	"	"			Dry, Brown fine to medium SAND, trace coarse gravel	2	12"	1
		2'-3'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	3	12"	1
		3'-4'	D	"	"	"			Dark Brown PEAT, trace roots	4	12"	8
								4'	Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4'
Rock Coring
Samples 4

HOLE NO. NS-78

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO NS-79

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/2/94	
COMPLETE	9/2/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	1
		1.5'-2.5'	D	"	"	"			" "	2	12"	1
		2.5'-3.5'	D	"	"	"			Moist, Gray fine to medium SAND & coarse Gravel, little silt	3	12"	1
		3.5'-4.5'	D	"	"	"			Wet, Gray Brown fine to medium SAND & coarse Gravel, trace wood (little odor)	4	12"	6
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ CASING USED _____ CASING THEN _____

Sample Type
D Dry C Cored A Auger
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O.D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 4.5
Rock Coring
Samples 4

HOLE NO NS-7

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-80

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ hours

At _____ after _____ hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/2/94	
COMPLETE	9/2/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0.5'-1.5'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	12"	5
		1.5'-2.5'	D	"	"	"			" "	2	12"	1
		2.5'-3.5'	D	"	"	"			Brown silty fine to medium SAND & coarse Gravel	3	12"	7
		3.5'-4.5'	D	"	"	"			Dark Brown PEAT & fine to medium Sand, trace coarse gravel	4	12"	1
								4.5'	Bottom of Boring 4.5'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D - Dry C - Cored A - Auger
UP - Undisturbed Piston
TP - Test Pit A-Auger V - Vane Test
UT - Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O.D Sampler

Cohesionless Density	Cohesive Consistency
0-10 Loose	0-4 Soft
10-30 Med Dense	4-8 M/Stiff
30-50 Dense	8-15 Stiff
50 + Very Dense	15-30 V-Stiff
	30 + Hard

SUMMARY
Earth Boring 4.5'
Rock Coring
Samples 4

HOLE NO NS-80

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-79
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/15/94	
COMPLETE	9/15/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		4'-5'	D	Blows not Taken					Moist, Brown & Gray silty fine SAND	1	12	"1
		5'-6'	D	"	"	"			" "	2	12	"1
		6'-7'	D	"	"	"			Wet, Gray silty fine SAND (Heavy Chemical Odor)	3	12	"1
		7'-8'	D	"	"	"			Wet, Brown silty fine SAND	4	12	"
								8'	Bottom of Boring 8'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
Trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30 fall on 2 O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V. Stiff
		30 +	Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 4

HOLE NO NS-79

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-79
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At 5' after ... Hours
At ... after ... Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/16/94	
COMPLETE	9/16/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6 on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
									(Augered to 8' then Sampled)			
		8'-9'	D	Blows not Taken					Wet, Brown silty fine SAND	1	12"	12
		9'-10'	D	"	"	"				2	12"	12
								10'	Bottom of Boring 10'			

GROUND SURFACE TO ... CASING ... THEN ...

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50+ Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30+ Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 2

HOLE NONS-79

100 WATER STREET EAST PROVIDENCE, R.I.

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-80
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/15/94	
COMPLETE	9/15/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
									(Augered to 4' then Sampled)			
		4'-5'	D	Blows not Taken					Brown SAND & Gravel	1	12"	12"
		5'-6'	D	"	"	"			" "	2	12"	10"
		6'-7'	D	"	"	"			Brown Rusty SAND & Gravel	3	12"	10"
		7'-8'	D	"	"	"			" "	4	12"	12"
								8'	Bottom of Boring 8'			

GROUND SURFACE TO ... USE ... CASING THEN ...

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thin-wall

Proportions used
Trace 0 to 10%
Little 10 to 20%
Some 20 to 35%
... 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		15-30	Hard
		30 +	Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 4

HOLE NO NS-80

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-80
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/16/94	
COMPLETE	9/16/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Ch Ele	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
									Went back on Hole			
									(Augered to 8' then Sampled)			
		8'-9'	D	Blows not Taken					Brown silty SAND & Gravel	1	12"	10
		9'-10'	D	"	"	"			Brown Gray silty SAND & Gravel	2	12"	8
								10'	Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored A: Auger
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30 fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50 + Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 2

HOLE NO NS-80

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-81
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/15/94	
COMPLETE	9/15/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		4'-5'	D	Blows not Taken					Wet, Brown PEAT, fine Sand, coarse Gravel	1	12"	8
		5'-6'	D	"	"	"			Wet, Gray fine SAND (Odor)	2	12"	12
		6'-7'	D	"	"	"			Wet, Gray fine SAND (High Odor)	3	12"	12
		7'-8'	D	"	"	"			" "	4	12"	12
								8'	Bottom of Boring 8'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A: Auger V: Vane test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V. Stiff
		30 +	Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 4

HOLE NO NS-81

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO.
OUR JOB NO 95-41

HOLE NO. NS-82
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/15/94	
COMPLETE	9/15/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		4'-5'	D	Blows not Taken					Brown sandy SILT	1	12"	6
		5'-6'	D	"	"	"			Organic SILT & Peat Fibers	2	12"	8
		6'-7'	D	"	"	"			" "	3	12"	12
								7'				
		7'-8'	D	"	"	"			Gray fine sandy SILT	4	12"	12
								8'				
									Bottom of Boring 8'			

GROUND SURFACE TO ... USED ... CASING THEN ...

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thin-wall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
... 35 to 50%

140lb Wt x 30 fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		30 +	Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 4

HOLE NO NS-82

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-83

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/28/94	
COMPLETE	9/28/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Moist, Dark Brown to medium Brown silty fine to medium SAND & coarse Gravel	1	24	24
		2'-4'	D	"	"	"			Moist, Gray silty fine to medium SAND & coarse Gravel	2	24	11
		4'-6'	D	"	"	"			(Pushed Cobble - No Rec.)	3	24	--
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2 O.D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-83

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-84
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fal		30"	

	Date	Time
START	9/28/94	
COMPLETE	9/28/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					4" Asphalt Brown SAND & Gravel	1	24	20
		2'-4'	D	"	"	"			" "	2	24	12
		4'-6'	D	"	"	"			Gray fine SAND & Peat	3	24	18
								6'	Bottom of Boring 6'			

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GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored A: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50+ Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30+ Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-84

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-85
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/28/94	
COMPLETE	9/28/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					(Pushed Cobble - No Rec.)	1	24"	
		2'-4'	D	"	"	"			Moist, Light Brown silty fine to medium SAND, trace cobbles & coarse gravel	2	24"	
		4'-6'	D	"	"	"			(Pushed Cobble - No Rec.)	3	24"	
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V.Stiff	

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-85

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-86
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/28/94	
COMPLETE	9/28/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					4" Asphalt Brown SAND & Gravel	1	24	12
		2'-4'	D	"	"	"			" "	2	24	1
		4'-6'	D	"	"	"			" "	3	24	1
								6'	Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C Cored W: Washed
UP Undisturbed Piston
T.P. Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30 fall on 2 O.D Sampler
Cohesionless Density
0-10 Loose
10-30 Med Dense
30-50 Dense
50 + Very Dense

Cohesive Consistency
0-4 Soft
4-8 M/Stiff
8-15 Stiff
30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-86

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-87

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/28/94	
COMPLETE	9/28/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Moist, Brown Gray fine to medium SAND & coarse Gravel, tr. silt, fiber & wood	1	24"	1
		2'-2'3"	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, Cobbles	2	3"	
								2'3"	Refusal - Bottom of Boring 2'3"			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 2'3"
Rock Coring _____
Samples 2

HOLE NO NS-87

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO NS-88

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/28/94	
COMPLETE	9/28/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-1'	D	Blows not Taken				1'	4" Asphalt Brown SAND & Gravel	1	12"	1'
									Refusal - Bottom of Boring 1'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density	Cohesive Consistency
0-10 Loose	0-4 Soft
10-30 Med Dense	4-8 M/Stiff
30-50 Dense	8-15 Stiff
50 + Very Dense	15-30 V-Stiff
	30 + Hard

SUMMARY
Earth Boring 1'
Rock Coring
Samples 1

HOLE NO NS-88

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO NS-89

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/28/94	
COMPLETE	9/28/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	24"	6
		2'-4'	D	"	"	"			(Pushed Cobble - No Rec.)	2	24"	-
		4'-6'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	3	24"	2
								6'	Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ "CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density
0-10 Loose
10-30 Med Dense
30-50 Dense
50 + Very Dense

Cohesive Consistency
0-4 Soft
4-8 M/Stiff
8-15 Stiff
15-30 V-Stiff
30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-89

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-90
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ___ Hours
At _____ after ___ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/28/94	
COMPLETE	9/28/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					4" Asphalt Brown SAND & Gravel	1	24"	1
		2'-3'	D	"	"	"		3'	" "	2	12"	1
									Refusal - Bottom of Boring 3'			

GROUND SURFACE TO ___ USED ___ CASING THEN ___

Sample Type
D: Dry C: Cored A: Auger
UP: Undisturbed Piston
TP: Test Pit A Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 3'
Rock Coring
Samples 2

HOLE NO NS-90

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-91
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/28/94	
COMPLETE	9/28/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	24	"1
		2'-4'	D	"	"	"			Moist, Brown fine to medium SAND & coarse Gravel, trace silt	2	24	"2
		4'-6'	D	"	"	"			" "	3	24	"
								6'	Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-91

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-92
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size OD		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/28/94	a p
COMPLETE	9/28/94	a p
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					4" Asphalt Brown SAND & Gravel	1	24"	18
		2'-4'	D	"	"	"			Brown Gray silty SAND & Gravel	2	24"	16
		4'-5.5'	D	"	"	"			Organic SILT & Peat	3	18"	18
								5.5'	Refusal - Bottom of Boring 5.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Auger
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 OD Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V Stiff
		30 +	Hard

SUMMARY
Earth Boring 5.5'
Rock Coring
Samples 3

HOLE NO NS-92

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-93
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" of Sample From 0-6	6-12	12-18	Moisture Density or Consist.	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel	1	24	1'
		2'-3'	D	"	"	"		3'		2	12	1'
									Bottom of Boring 3'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 3'
Rock Coring ____
Samples 2

HOLE NO NS-93

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO. NS-94
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ hours
At ____ after ____ hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/28/94	
COMPLETE	9/28/94	
TOTAL HRS		

BORING FOREMAN J. Medeiros
INSPECTOR
SOILS ENGR

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					4" Asphalt Brown SAND & Gravel	1	24"	2
		2'-4'	D	"	"	"			" "	2	24"	1
		4'-5'	D	"	"	"			" "	3	12"	1
								5'	Bottom of Boring 5'			

GROUND SURFACE TO ____ USED ____ CASING THEN

Sample Type
D Dry C Cored
U Undisturbed Piston
T Test Pit A Auger

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2" O.D. Sampler
Cohesionless Density
0 to 10 Loose
10 to 30 Med Dense
30 to 50 Dense

Cohesive Consistency
0 to 4 Soft
4 to 8 M/Stiff
8 to 15 Stiff
30 + Hard

SUMMARY
Earth Boring 5'
Rock Coring
Samples 3

HOLE NONS-94

100 WATER STREET EAST PROVIDENCE, R. I.

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-95
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ hours
At ____ after ____ hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	a
COMPLETE	9/29/94	p
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" of Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	24	22
		2'-4'	D	"	"	"			Moist, Gray fine to medium SAND & coare Gravel, trace silt	2	24	2
		4'-6'	D	"	"	"			Moist to Wet, Gray fine to medium SAND, trace silt	3	24	2
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
			30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO. NS-95

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-96
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					4" Asphalt Brown SAND & Gravel	1	24	1
		2'-4'	D	"	"	"			Black Organic SILT & Gravel	2	24	
		4'-6'	D	"	"	"			Black Organic SILT & Peat	3	24	2
								5'				
		6'-8'	D	"	"	"			Light Brown silty fine SAND Gray silty fine SAND	4	24	2
								8'				
									Bottom of Boring 8'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored A: Augered
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30 fall on 2 O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 8'
Rock Coring
Samples 4

HOLE NO NS-9

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-97
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	24	
		2'-4'	D	"	"	"			Dry, Brown Gray fine to med. SAND & medium to coarse Gravel, trace silt	2	24	
		4'-6'	D	"	"	"			Dry, Brown fine to medium SAND & medium to coarse	3	24	
								6'	Gravel, trace silt			
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D - Dry C - Cored W - Washed
UP - Undisturbed Piston
TP - Test Pit A - Auger V - Vane Test
UT - Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30 fall on 2 OD Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50 + Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-9

TO Texas Instruments | ADDRESS Attleboro, Mass.

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.

REPORT SENT TO above / Bldg. #5 | PROJ NO

SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO NS-98

LINE & STA.

OFFSET

SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	1
		2'-4'	D	"	"	"			Black Brown silty SAND & Gravel	2	24	1
		4'-6'	D	"	"	"		5'		3	24	1
									PEAT			
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V. Stiff	

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-98

100 WATER STREET EAST PROVIDENCE, R.I.

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-99
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt, asphalt & cobbles	1	24"	
		2'-4'	D	"	"	"			Moist, Dark Br. to Gray silty fine SAND, trace root fiber, coarse gravel & cobbles	2	24"	
		4'-6'	D	"	"	"			Moist, Dark Brown type of	3	24"	
								6'	PEAT, trace roots			
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 0 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50+ Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30+ Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-9

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-100

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO. | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	
TOTAL HRS		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	"1
		2'-4'	D	"	"	"			" "	2	24	"1
		4'-6'	D	"	"	"			" "	3	24	"
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NONS-10(

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-101
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size. D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt & asphalt	1	24	1
		2'-4'	D	"	"	"			Dry, Gray Brown fine to med SAND & medium to coarse Gravel, trace silt	2	24	2
		4'-6'	D	"	"	"			Dry, Brown fine to medium SAND & coarse Gravel,	3	24	1
								6'	trace silt			
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30 fall on 2 OD Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-101

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-102
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size / D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not		Taken			Brown SAND & Gravel	1	24	12
		2'-4'	D	"	"	"			" "	2	24	11
		4'-6'	D	"	"	"			" "	3	24	11
								5.5'				
								6'	PEAT			
									Bottom of Boring 6'			

GROUND SURFACE TO ... CASING THEN

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0 - 10	Loose	0 - 4	Soft
10 - 30	Med Dense	4 - 8	M/Stiff
30 - 50	Dense	8 - 15	Stiff
50 +	Very Dense	15 - 30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-10

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-103

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after ____ Hours

At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample: From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen
		0'-2'	D	Blows not Taken					Dry, Dark Br. to med. Brown fine to medium SAND & coarse Gravel, trace silt	1	24"
		2'-4'	D	"	"	"			Moist, Gray silty fine SAND, trace coarse sand	2	24"
		4'-6'	D	"	"	"			Moist, Dark Brown PEAT, trace roots	3	24"
								6'	Bottom of Boring 6'		

GROUND SURFACE TO _____ CASING _____ THEN _____

Sample Type

D Dry C Cored W Auger

UP Undisturbed Piston

TP Test Pit A Auger V Vane Test

UT Undisturbed Thinwall

Proportions Used

trace 0 to 10%

little 10 to 20%

some 20 to 35%

and 35 to 50%

140 lb Wt x 30" fall on 2" OD Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY

Earth Boring 6'

Rock Coring _____

Samples 3

HOLE NONS-10

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-104

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ. NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					4" Asphalt Brown SAND & Gravel	1	24	1
		2'-4'	D	"	"	"				2	24	1
		4'-6'	D	"	"	"				3	24	1
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ____ CASING ____ THEN ____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

USED
Proportions used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" Fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0 - 10	Loose	0 - 4	Soft	30 + Hard
10 - 30	Med Dense	4 - 8	M/Stiff	
30 - 50	Dense	8 - 15	Stiff	
50 +	Very Dense	15 - 30	V-Stiff	

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NONS-104

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-105
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size D		1-3/8"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/30/94	
COMPLETE	9/30/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
									(Augered to 4')			
		4'-6'	D	Blows not Taken					Brown Gray silty fine SAND	1	24"	14
									(Wet)			
		6'-8'	D	"	"	"			Gray silty fine SAND	2	24"	24
								8'				
									Bottom of Boring 8'			

GROUND SURFACE TO ____ USED ____ CASING THEN

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30 fall on 2 O.D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50 + Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 2

HOLE NO NS-105

TO Texas Instruments | ADDRESS Attleboro, Mass. | HOLE NO. NS-106

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass. | LINE & STA.

REPORT SENT TO above / Bldg. #5 | PROJ NO | OFFSET

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41 | SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	

TOTAL HRS.

BORING FOREMAN J. Medeiros

INSPECTOR

SOILS ENGR.

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					4" Asphalt Brown SAND & Gravel	1	24"	1
		2'-4'	D	"	"	"			(No Recovery)	2	24"	
		4'-6'	D	"	"	"			Brown Black silty fine SAND & Gravel	3	24"	2
		6'-8'	D	"	"	"			" "	4	24"	2
								8'	Bottom of Boring 8'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type

D Dry C Cored A Auger

UP Undisturbed Piston

TP Test Pit A Auger / Wash Test

UT Undisturbed Thinwall

Proportions Used

trace 0 to 10%

little 10 to 20%

some 20 to 35%

and 35 to 50%

140 lb Wt x 30" fall on 2 O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY

Earth Boring 8'

Rock Coring

Samples 4

HOLE NO NS-10

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-107
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size - D		1-3/8"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/30/94	
COMPLETE	9/30/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
									(Augered to 4')			
		4'-6'	D	Blows not Taken					Wet, Gray Brown silty fine to medium SAND	1	24"	20
		6'-8'	D	"	"	"			Wet, Gray silty fine SAND	2	24"	24
								8'	Bottom of Boring 8'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D - Dry C - Cored W - Washed
UP - Undisturbed Piston
TP - Test Pit A - Auger V - Vane Test
UT - Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0 - 10	Loose	0 - 4	Soft	30 + Hard
10 - 30	Med Dense	4 - 8	M/Stiff	
30 - 50	Dense	8 - 15	Stiff	
50 +	Very Dense	15 - 30	V-Stiff	

SUMMARY
Earth Boring 8'
Rock Coring
Samples 2

HOLE NO NS-107

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-108
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		1-3/8"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/29/94	
COMPLETE	9/29/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
									4" Asphalt			
									(Did not sample until 4')			
		4'-6'	D	Blows not Taken					Brown silty fine SAND	1	24"	12"
		6'-8'	D	"	"	"			Brown Gray silty fine SAND	2	24"	20"
								8'				
									Bottom of Boring 8'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D - Dry C - Cored W - Auger
UP - Undisturbed Piston
TP - Test Pit A - Auger V - Vane Test
UT - Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0 - 10	Loose	0 - 4	Soft
10 - 30	Med Dense	4 - 8	M/Stiff
30 - 50	Dense	8 - 15	Stiff
50 +	Very Dense	15 - 30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 2

HOLE NO NS-108

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-109
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size I D		1-3/8"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/30/94	
COMPLETE	9/30/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
									(Augered to 4')			
		4'-6'	D	Blows not Taken					Wet, Dark Brown type of PEAT to Brown silty fine SAND	1	24"	24
		6'-8'	D	"	"	"			Wet, Gray silty fine SAND	2	24"	24
								8'	Bottom of Boring 8'			

GROUND SURFACE TO ___ USED ___ CASING THEN ___

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50 + Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30 + Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 2

HOLE NO NS-109

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-110
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		1-3/8"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/30/94	
COMPLETE	9/30/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample: From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
									4" Asphalt			
									(Did not sample until 4')			
		4'-6'	D	Blows not Taken					Brown SAND & Gravel	1	24'	4
		6'-8'	D	"	"	"			Brown Gray silty fine SAND	2	24'	24
								8'				
									Bottom of Boring 8'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 2

HOLE NO NS-110

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-111
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size I.D		1-3/8"	
Hammer Wt		300#	BIT
Hammer Fal.		30"	

	Date	Time
START	9/30/94	a.m.
COMPLETE	9/30/94	p.m.
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample: From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
									(Augered to 4')			
		4'-6'	D	Blows not Taken					Wet, Dark Brown PEAT changing to Dark Brown silty fine SAND	1	24"	12
		6'-8'	D	"	"	"			Gray silty fine SAND	2	24"	24
								8'				
									Bottom of Boring 8'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. - 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med. Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V. Stiff
		30 +	Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 2

HOLE NO NS-111

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-111
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size D		1-3/8"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/30/94	
COMPLETE	9/30/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
									(Augered to 4')			
		4'-6'	D	Blows not Taken					Wet, Dark Brown PEAT changing to Dark Brown silty fine SAND	1	24'	12
		6'-8'	D	"	"	"			Gray silty fine SAND	2	24'	24
								8'				
									Bottom of Boring 8'			

GROUND SURFACE TO ____ USED ____ CASING ____ THEN ____

Sample Type
D=Dry C=Cored A=Auger
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used
trace 1 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140lb Wt x 30 fall on 2 OD Sampler
Cohesionless Density
0-10 Loose
10-30 Med Dense
30-50 Dense
50+ Very Dense

Cohesive Consistency
0-4 Soft 30+ Hard
4-8 M/Stiff
8-15 Stiff
15-30 V-Stiff

SUMMARY
Earth Boring 8'
Rock Coring
Samples 2

HOLE NO NS-111

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-112
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		1-3/8"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/30/94	
COMPLETE	9/30/94	
TOTAL HRS		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
									4" Asphalt			
									(Did not sample until 4')			
		4'-6'	D	Blows not Taken					Brown silty fine SAND	1	24"	16"
		6'-8'	D	"	"	"			Brown Gray silty fine SAND	2	24"	16"
								8'				
									Bottom of Boring 8'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D-Dry C-Cored W-Washed
UD-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test
UT-Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50+ Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 15-30 V-Stiff; 30+ Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 2

HOLE NO NS-112

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. NS-113
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type	Auger	S/S	
Size I D		1-3/8"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	9/30/94	
COMPLETE	9/30/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		2'-4'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	24'	16
		4'-6'	D	Blows not Taken					Moist, Dark Brown PEAT & Brown fine Sand, little silt to Gray silty fine SAND	2	24'	24
		6'-8'	D	"	"	"			Gray silty fine SAND, trace fibers (Moist)	3	24'	24
								8'				
									Bottom of Boring 8'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Auger
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V. Stiff
		30 +	Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 3

HOLE NO NS-113

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-114
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/3/94	
COMPLETE	10/3/94	
TOTAL HRS		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					4" Asphalt	1	24"	1
									Brown SAND & Gravel			
		2'-4'	D	"	"	"			" "	2	24"	6
								4'				
									Bottom of Boring 4'			

GROUND SURFACE TO ____ FT. CASING THEN ____

Sample Type
D Dry C Cored A Auger
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30 Fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30+ Hard

SUMMARY
Earth Boring 4'
Rock Coring
Samples 2

HOLE NO NS-114

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

HOLE NO. NS-115
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/3/94	a.
COMPLETE	10/3/94	p.
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24"	12
		2'-3'	D	"	"	"			" "	2	12"	5'
								3'	Refusal - Bottom of Boring 3'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY
Earth Boring 3'
Rock Coring
Samples 2

HOLE NONS-115

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. NS-116
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Moist, Brown fine to medium SAND & coarse Gravel, trace silt	1	24	'24
		2'-4'	D	"	"	"			Moist, Gray silty fine SAND, trace coarse gravel	2	24	'18
		4'-6'	D	"	"	"			Moist, Brown Gray silty fine SAND	3	24	'24
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

DATE
HOLE NO NS-117
LINE & STA.
OFFSET
SURF. ELEV.

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	a.
COMPLETE	11/23/94	p.
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	24
		2'-4'	D	"	"	"			" "	2	24	24
		4'-5'	D	"	"	"		5'	" "	3	12	10
									Refusal - Bottom of Boring 5'			

118945

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D-Dry C-Cored W-Washed
UD-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 5'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

DATE

TO Texas Instruments ADDRESS Attleboro, Mass.

PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.

REPORT SENT TO above / Bldg. #5 PROJ. NO.

SAMPLES SENT TO Taken at Site OUR JOB NO. 95-41

HOLE NO. NS-118

LINE & STA.

OFFSET

SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Moist, Brown fine to medium SAND & coarse Gravel, trace silt	1	24"	24
				0								
		2'-4'	D	"	"	"			" "	2	24"	18
		4'-6'	D	"	"	"			Moist, Brown Gray fine to medium SAND & coarse Gravel trace silt	3	24"	24
								6'	Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2 O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-119
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24"	2
		2'-4'	D	"	"	"			" "	2	24"	2
		4'-6'	D	"	"	"			" "	3	24"	2
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D-Dry C-Cored W-Washed
UD-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test

Proportions Used
Trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
			30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-120
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	24	12
		2'-4'	D	"	"	"			Moist, Brown Gray fine to medium SAND & coarse Gravel, trace silt	2	24	12
		4'-6'	D	"	"	"			" "	3	24	12
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN

Sample Type
D Dry C Cored A Auger
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt + 30 fall on 2 OD Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

DATE
HOLE NO. NS-121
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	12
		2'-4'	D	"	"	"			" "	2	24	12
		4'-6'	D	"	"	"			" "	3	24	12
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C Cored A Auger
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2 O D Sampler
Cohesionless Density
0-10 Loose
10-30 Med Dense
Cohesive Consistency
0-4 Soft
4-8 M/Stiff
30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

DATE

TO Texas Instruments | ADDRESS Attleboro, Mass.

PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.

REPORT SENT TO above / Bldg. #5 | PROJ NO

SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-122

LINE & STA.

OFFSET

SURF. ELEV.

GROUND WATER OBSERVATIONS

At _____ after _____ Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Moist, Dark Brown & Light Brown SAND & coarse Gravel	1	24	"1
		2'-4'	D	"	"	"			Moist, Brown Gray fine to medium SAND & coarse Gravel, trace silt	2	24	"2
		4'-6'	D	"	"	"			Moist, Light Brown silty fine SAND	3	24	"2
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C Cored A Washed
U Undisturbed Piston
T Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 0 to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2 O D Sampler
Cohesionless Density
0 10 Loose
10 30 Med Dense
Cohesive Consistency
0-4 Soft 30 + Hard
4-8 M/Stiff

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO.
OUR JOB NO. 95-41

DATE
HOLE NO. NS-123
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample: From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-.6"	D	Blows not	Taken			6"	Brown SAND & Gravel	1	6"	
									Refusal - Bottom of Boring 6"			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		30 +	Hard

SUMMARY
Earth Boring 6"
Rock Coring
Samples 1

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. NS-124
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Dry, Dark Brown Topsoil - Brown fine to medium SAND & coarse Gravel	1	24	12
		2'-4'	D	"	"	"			Moist, Brown fine to medium SAND & coarse Gravel, trace silt	2	24	11
		4'-6'	D	"	"	"			Moist, Brown Gray silty fine SAND & coarse Gravel	3	24	12
								6'	Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored A: Augered
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-125
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	12
		2'-4'	D	"	"	"			" "	2	24	12
		4'-6'	D	"	"	"			" "	3	24	12
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C: Cored A: Auger
UD Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

DATE
HOLE NO NS-126
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample: From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not		Taken			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	24	'2
		2'-4'	D	"	"	"			" "	2	24	'2
		4'-6'	D	"	"	"			Dry, Brown Gray fine to medium SAND & coarse	3	24	'2
								6'	Gravel, trace silt			
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D - Dry C - Cored A - Auger
UP - Undisturbed Piston
TP - Test Pit A Auger V - Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. NS-127
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Dry, Dark Brown fine to medium SAND & coarse Gravel, trace silt	1	24"	2
		2'-4'	D	"	"	"			Moist, Brown fine to medium SAND & coarse Gravel, trace silt	2	24"	1
								4'	Refusal - Bottom of Boring 4'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Wash
UP Undisturbed Piston
TP Test Pit A Auger V Vane test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4'
Rock Coring
Samples 2

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-128
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	12
		2'-4'	D	"	"	"			" "	2	24	12
		4'-6'	D	"	"	"			" "	3	24	12
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

DATE
HOLE NO NS-129
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	

TOTAL HRS.
BORING FOREMAN R. Allen
INSPECTOR
SOILS ENGR.

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Moist, Brown silty fine SAND & coarse Gravel	1	24	12
		2'-4'	D	"	"	"			Moist, Gray Brown silty fine SAND & coarse Gravel	2	24	12
		4'-6'	D	"	"	"			Moist, Brown Gray silty fine SAND	3	24	11
								6'	Bottom of Boring 6'			

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GROUND SURFACE TO ____ USED ____ CASING ____ THEN ____

Sample Type
D Dry
UP Undisturbed Piston
T Test Pit & Auger or Wash Test

Proportions Used
trace 0-5%
little 10-20%
some 20 to 35%

140 lb Wt x 30 fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		15-30	V Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

DATE
HOLE NO NS-130
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size: D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24"	2
		2'-2'6"	D	"	"	"		2'6"	" "	2	6"	6
									Refusal - Bottom of Boring 2'6"			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace (0 to 10%)
little (10 to 20%)
some (20 to 35%)

140 lb Wt x 30" Fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 2'6"
Rock Coring
Samples 2

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-131
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" or Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	12
		2'-4'	D	"	"	"			" "	2	24	1
		4'-6'	D	"	"	"			" "	3	24	12
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN

Sample Type
D Dry C Cored W Auger
U Undisturbed Piston
T Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2" O D Sampler
Cohesionless Density: 0 to 10 Loose; 10 to 30 Med Dense; 30 to 50 Dense
Cohesive Consistency: 0 to 4 Soft; 4 to 8 M Stiff; 8 to 15 Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO NS-132
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/23/94	
COMPLETE	11/23/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dry, Brown silty fine SAND & coarse Gravel	1	24	'2
		2'-4'	D	"	"	"			Moist, Brown Gray fine SAND & coarse Gravel, trace silt	2	24	'1
		4'-6'	D	"	"	"			Moist to Wet, Brown fine to medium SAND & coarse Gravel	3	24	'1
								6'				
									Bottom of Boring 6'			

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

TO Texas Instruments — ADDRESS Attleboro, Mass.

PROJECT NAME Low Level Radiation Invest — LOCATION Attleboro, Mass.

REPORT SENT TO above / Bldg. #5 — PROJ NO

SAMPLES SENT TO Taken at Site — OUR JOB NO 95-41

HOLE NO NS-133

LINE & STA.

OFFSET

SURF. ELEV.

GROUND WATER OBSERVATIONS

At ____ after ____ Hours

At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/28/94	
COMPLETE	11/28/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" or Sample From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	24
		2'-4'	D	"	"	"			" "	2	24	24
		4'-6'	D	"	"	"			" "	3	24	24
								6'				
									Bottom of Boring 6'			

GROUND WATER

Sample Type

Cohesionless Density

Cohesive Consistency

SUMMARY

Earth Boring 6'

Rock Coring

Samples 3

HOLE NO NS-13

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO NS-134
LINE & STA
OFFSET
SURF ELEV

GROUND WATER OBSERVATIONS
At after hours
At after hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fo		30"	

	Date	Time
START	11/28/94	
COMPLETE	11/28/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	24	1' 2
		2'-4'	D	"	"	"			Dry, Brown silty fine to medium SAND & coarse Gravel	2	24	24
		4'-6'	D	"	"	"			Moist, Brown fine to med. SAND & coarse Gravel,	3	24	1' 8
								6'	trace silt			
									Bottom of Boring 6'			

CONTINUED FROM THEN

Sample Type
Consistency Density
Cohesive Consistency
Soft Stiff Hard
Med Dense
Dense
Stiff

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-134

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO NS-135
LINE & STA
OFFSET
SURF ELEV

GROUND WATER OBSERVATIONS
At after Hours
At after Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/28/94	a.m. p.m.
COMPLETE	11/28/94	a.m. p.m.
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	# ws per 6" on Sampler 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Dry, Brown silty fine to medium SAND, trace coarse gravel	1	24	22'
		2'-4'	D	"	"	"			" becomes Wet	2	24	12
		4'-6'	D	"	"	"			" becomes Dry	3	24	24
								6'				
									Bottom of Boring 6'			

CASING TYPE

Sample Type

Density Cohesive Consistency
0-4 Loose 0-4 Soft 30 + Hard
5-10 Med Dense 4-8 M/Stiff
30-50 Dense 8-15 Stiff

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-135

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-136
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/28/94	
COMPLETE	11/28/94	
TOTAL HRS		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample From 0-6	To 6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	18
		2'-4'	D	"	"	"			" "	2	24	24
		4'-6'	D	"	"	"			" "	3	24	12
								6'				
									Bottom of Boring 6'			

GROUND SURFACE T

Sample Type

Hammer Wt. lbs. for 2" O.D. Sampler

Cohesive Consistency

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-136

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-137
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/28/94	
COMPLETE	11/28/94	
TOTAL HRS		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken				2'	Brown SAND & Gravel	1	24"	24"
									Refusal - Bottom of Boring 2'			

GROUND SURFACE TO ____ USED ____ CASING ____ THEN ____

Sample Type
D: Dry C: Core A: Auger
U: Undisturbed Piston
TP: Test Pit V: Vane test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50+	Very Dense	15-30	V-Stiff
		30+	Hard

SUMMARY
Earth Boring 2'
Rock Coring
Samples 1

HOLE NONS-137

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO NS-138
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/29/94	
COMPLETE	11/29/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per Ft	Sample Depths From To	Type of Sample	Blows per 6" on Sampler From 0-6 / 6-12 / 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken			Brown Sand & Gravel	1	24	24
		2'-4'	D	" " "			" "	2	24	24
		4'-6'	D	" " "			" "	3	24	24
						6'	Bottom of Boring 6'			

CASING THEN
Sample Type
(40lb Wt x 30" fall on 2" O.D. Sampler)
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense; 50+ Very Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30+ Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-138

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

HOLE NO NS-139
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O.D		3½"	
Hamm. Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/30/94	
COMPLETE	11/30/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-1'2"	D	Blows not Taken				1'2"	Dark Brown fine to medium SAND, Cobble	1	14"	1
									Refusal - Bottom of Boring 1'2"			

GROUND SURFACE TO ____ USED CASING THEN ____

Sample Type
D Dry C Cored A Auger
U Undisturbed Piston
T Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		30 +	Hard

SUMMARY
Earth Boring 1'2
Rock Coring
Samples 1

HOLE NO NS-1

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

DATE
HOLE NO NS-140
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/30/94	
COMPLETE	11/30/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From To	Type of Sample	Blows per 6" on Sampler 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Ele.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dark Brown fine to medium SAND	1	24"	2
		2'-4'	D	"	"	"			Light Brown fine to medium SAND	2	24"	2
		4'-6'	D	"	"	"			" "	3	24"	2
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO CASING THEN

Sample Type
D Dry C Cored W Washed
U Undisturbed T Test Pit A Auger Wash Test

Proportions used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0 10	Loose	0 4	Soft
10 30	Med Dense	4 8	M/Stiff
30 50	Dense	8 15	Stiff
		15 30	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-14

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO NS-141
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ hours
At ____ after ____ hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/30/94	
COMPLETE	11/30/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Dark Brown fine to medium SAND	1	24	24
		2'-4'	D	"	"	"			Light Brown fine to medium SAND	2	24	20
		4'-6'	D	"	"	"			" "	3	24	24
								6'	Bottom of Boring 6'			

GROUND SURFACE To ____ CASING THEN

Sample Type

(400 Wt x 30" fall on 2" O.D. Sampler)
Cohesionless Density: 0-4 Loose; 4-10 Med Dense; 30-50 Dense
Cohesive Consistency: 4-8 M/Stiff; 8-15 Stiff; 30+ Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-141

100 WATER STREET EAST PROVIDENCE, R. I.

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-142
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ hours
At ____ after ____ hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O.D.		3½"	
Hammer Wt.		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/30/94	
COMPLETE	11/30/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" of Sample First	Second	Third	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dark Brown fine to medium SAND	1	24"	2
		2'-4'	D	"	"	"			Brown medium to fine SAND	2	24"	2
		4'-6'	D	"	"	"	Wet		Gray fine to medium SAND, some gravel	3	24"	1
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
U Undisturbed Piston
T Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0 - 10	Loose	2 - 4	Soft
10 - 30	Med Dense	4 - 8	M/Stiff
30 - 50	Dense	8 - 15	Stiff
50 +	Very Dense	15 - 30	V. Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NONS-142

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO NS-143
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	
Hammer Fall		30"	

	Date	Time
START	11/30/94	am
COMPLETE	11/30/94	pm
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6 on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	S.C. IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Dark Brown fine SAND	1	24	24
		2'-4'	D	"	"	"			Brown fine to medium SAND, some gravel	2	24	20
		4'-6'	D	"	"	"			" "	3	24	12
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ CASING THEN

Sample Type

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50+	Very Dense	15-30	V Stiff
		30+	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-143

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-144
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/30/94	
COMPLETE	11/30/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dark Brown medium SAND	1	24"	24
		2'-3'6"	D	"	"	"		3'6"	Yellowish medium SAND, some gravel	2	18"	1(
									Refusal - Bottom of Boring 3'6"			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thin-wall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
			30 + Hard

SUMMARY
Earth Boring 3'6
Rock Coring
Samples 2

HOLE NO NS-14

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO NS-145
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At 3' after hours
At after hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/30/94	am pm
COMPLETE	11/30/94	am pm
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample: From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Dark Brown medium SAND, some gravel	1	24	18'
		2'-4'	D	"	"	"			Gray fine to medium SAND, Cobbles	2	24	16'
		4'-6'	D	"	"	"			" "	3	24	20'
								6'	Bottom of Boring 6'			

GROUND SURFACE TO
CASING THEN

Sample Type
D Dry C Cored A Auger
UP Undisturbed Piston
TP Test Pit A Auger + Visual Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		15-30	Very Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NONS-145

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

DATE
HOLE NO NS-146
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	11/30/94	
COMPLETE	11/30/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Dark Brown medium SAND	1	24"	2"
		2'-4'	D	"	"	"			" "	2	24"	2"
		4'-6'	D	"	"	"			Brown medium SAND	3	24"	2"
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ CASING THEN

Sample Type
D-Dry C Core A
U Undisturbed
T Test Pit

Proportions used
Little 10-20%
Some 20-35%

140 lb Wt x 30" fall on 2" OD Sampler
Cohesionless Density
0-10 Loose
10-30 Med Dense
30-50 Dense

Cohesive Consistency
0-4 Soft 30+ Hard
4-8 M/Stiff
8-15 Stiff

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-14

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO NS-147
LINE & STA
OFFSET
SURF ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/1/94	
COMPLETE	12/1/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample: From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not		Taken			Dark Brown medium to fine SAND	1	24	24
		2'-4'	D	"	"	"			Brown medium to fine SAND, some gravel	2	24	18
		4'-6'	D	"	"	"			" "	3	24	18
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Wash
U Undisturbed Piston
T Test Pit A Auger V Vane Test
O Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30 Fall on 2" O.D. Sampler
Cohesionless Density
0 - 10 Loose
10 - 30 Med Dense
30 - 50 Dense
50 + Very Dense

Cohesive Consistency
0 - 4 Soft
4 - 8 M/Stiff
8 - 15 Stiff
15 - 30 V Stiff
30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-14

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO NS-148
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/1/94	
COMPLETE	12/1/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6 on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Dark Brown medium to fine SAND	1	24"	2
		2'-3'	D	"	"	"		3'		2	12"	1
									Refusal - Bottom of Boring 3'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored A Auger
U Undisturbed Piston
T Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 3'
Rock Coring
Samples 2

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

DATE
HOLE NO NS-149
LINE & STA
OFFSET
SURF ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/1/94	
COMPLETE	12/1/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per 1oo'	Sample Depths From - To	Type of Sample	Blows per 6" of Sampler From 0-6	To 6-12	12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dark Brown fine to medium SAND	1	24	24
		2'-4'	D	"	"	"			Brown fine to medium SAND & Gravel	2	24	24
		4'-6'	D	"	"	"			" "	3	24	24
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING ____ THEN ____

Sample Type
D Dry Cuttings & Auger
UD Undisturbed Sample
SPT Test Pit & Auger & Drive Test

Proportions Used
Trace 10 to 20%
Little 20 to 35%
Some 35 to 50%

140lb Wt x 30 fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30+ Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-150
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ hours
At ____ after ____ hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/1/94	
COMPLETE	12/1/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Dark Brown medium to fine SAND	1	24	24
		2'-4'	D	"	"	"			Brown medium to fine SAND, some gravel	2	24	16
		4'-6'	D	"	"	"			" "	3	24	24
								6'				
									Bottom of Boring 6'			

GROUND SURFACE T
Sample Type
D Dry C Cored A S
Test
WATER
Encountered
While
Some
WHEN
Sampler
Cohesionless Density
Loose
Med Dense
Dense
Cohesive Consistency
Soft
M/Stiff
Stiff
Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-150

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95 41

DATE
HOLE NO NS-151
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ hours
At _____ after _____ hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fa.		30"	

	Date	Time
START	12/1/94	
COMPLETE	12/1/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6 on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown medium to fine SAND	1	24	12
		2'-4'	D	"	"	"			" trace gravel	2	24	12
		4'-6'	D	"	"	"			Yellowish fine SAND, trace gravel	3	24	12
								6'	Bottom of Boring 6'			

UNDISTURBED ROCK CORE

Sample Type
D Dry C Core A Auger
U Undisturbed Tube
T Test Pit A Auger W Wash Test

Proportions used
Trace 0-10%
Little 10-20%
Some 20-35%

ASTM D-1586
140 lb Wt x 30 Fall on 2" OD Sampler

Cohesionless Density		Cohesive Consistency	
0-4	Loose	0-4	Soft
5-10	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		15-30	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

DATE
HOLE NO NS-152
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ___ Hours
At _____ after ___ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/1/94	
COMPLETE	12/1/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6 on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Brown fine to medium SAND, some gravel	1	24	12
		2'-4'	D	"	"	"			Gray fine to medium SAND with Yellowish fine Sand & Gravel	2	24	12
		4'-6'	D	"	"	"			" "	3	24	12
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ___ USED CASING THEN

Sample Type
D Dry C Cored W Washed
U Undisturbed Piston
T Test Pit A Auger W Wash Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0 - 10	Loose	0 - 4	Soft
10 - 30	Med. Dense	4 - 8	M/Stiff
30 - 50	Dense	8 - 15	Stiff
		15 - 30	Hard
		30 +	

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

DATE
HOLE NO NS-153
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O.D.		3½"	
Hammer Wt.		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/1/94	
COMPLETE	12/1/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dark Brown medium to fine SAND, some gravel	1	24	24
		2'-4'	D	"	"	"			Brown medium SAND & Gravel	2	24	' -
		4'-6'	D	"	"	"			" "	3	24	24
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ CASING THEN

Sample Type
D Dry C Cored W Wash
UP Undisturbed Piston
TP Test Pit S Split Spoon Test

Cohesionless Density
0-10 Loose
10-30 Med Dense
30-50 Dense

Cohesive Consistency
0-4 Soft 30+ Hard
4-8 M Stiff
8-15 Stiff

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-15

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO NS-154
LINE & STA
OFFSET
SURF ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/1/94	
COMPLETE	12/1/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From - To 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dark Brown medium to fine SAND, some gravel	1	24	24
		2'-4'	D	"	"	"			Brown medium SAND & Gravel	2	24	18
		4'-6'	D	"	"	"			" "	3	24	24
								6'				
									Bottom of Boring 6'			

GRO... PEACE TO ... USED ... CASING THEN ...

Sample Type
D Dry C Cored W Washed
U Undisturbed Piston
T Test Pit A Auger V Vane Test

Proportions Used
trace ...
little ... to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2 O.D. Sampler
Cohesionless Density
0 4 Loose
4 10 Med Dense
30 50 Dense

Cohesive Consistency
0 4 Soft 30 + Hard
4 8 M/Stiff
8 15 Stiff

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-154

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO NS-155
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At after hours
At after hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/1/94	
COMPLETE	12/1/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Brown medium to fine SAND	1	24	
		2'-4'	D	"	"	"			" "	2	24	
		4'-6'	D	"	"	"			" with Cobbles	3	24	
								6'				
									Bottom of Boring 6'			

CASING THEN

Sample Type

Cohesionless Density | Cohesive Consistency
Loose | Soft | 30 + Hard
30-50 Med Dense | M/Stiff
30-50 Dense | Stiff

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-1

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. NS-156
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ... after ... Hours
At ... after ... Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/2/94	
COMPLETE	12/2/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not	Taken				Dark Brown medium to fine SAND	1	24	24
		2'-4'	D	"	"	"			Brown medium SAND & Gravel	2	24	24
		4'-6'	D	"	"	"			" "	3	24	24
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ... CASING ... THEN ...

Sample Type
D Dry C Cored A Auger
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Tube

USED
Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O D Sampler
Cohesionless Density
0-10 Loose
10-30 Med Dense
30-50 Dense
Cohesive Consistency
0-4 Soft 30 + Hard
4-8 M/Stiff
8-15 Stiff

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NONS-156

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO NS-157
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/2/94	
COMPLETE	12/2/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Dark Brown medium SAND & Gravel	1	24	2
		2'-4'	D	"	"	"			Brown medium SAND & Gravel	2	24	2
		4'-6'	D	"	"	"			" "	3	24	2
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING ____ THEN ____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2" OD Sampler

Cohesionless Density		Cohesive Consistency	
0 - 10	Loose	0 - 4	Soft
10 - 30	Med Dense	4 - 8	M/Stiff
30 - 50	Dense	8 - 15	Stiff
50 +	Very Dense	15 - 30	V Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO NS-15

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-158
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/5/95	
COMPLETE	1/5/95	
TOTAL HRS.		
BORING FOREMAN	K. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND & Gravel, trace cinders & asphalt	1	24"	18
		2'-4'	D	"	"	"			" "	2	24"	24
		4'-6'	D	"	"	"			" "	3	24"	24
		6'-8'	D	"	"	"			" "	4	24"	10
		8'-10'	D	"	"	"			" "	5	24"	24
								10'				
									Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 10'
Rock Coring ____
Samples 5

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO NS-159
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/5/95	
COMPLETE	1/5/95	
TOTAL HRS		
BORING FOREMAN	K. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND, some fine to coarse gravel	1	24"	24
									" "			
		2'-4'	D	"	"	"				2	24"	24
		4'-6'	D	"	"	"			Gray Brown fine to coarse SAND & fine to medium Gravel, some peat	3	24"	24
		6'-8'	D	"	"	"			Brown silty fine SAND, little coarse sand & fine gravel	4	24"	18
		8'-10'	D	"	"	"			Gray Brown silty fine SAND, little coarse sand	5	24"	18
								10'	Bottom of Boring 10'			

GROUND SURFACE TO
Sample Type
D-Dry C-Cored W-Washed
U-Undisturbed Piston
T-Test Pit A-Auger V-Vane Test

USED
Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

CASING THEN
140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density
0 to 10 Loose
10 to 30 Med Dense
30 to 50 Dense
Cohesive Consistency
0 to 4 Soft
4 to 8 M/Stiff
8 to 15 Stiff
30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-160
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/5/95	
COMPLETE	1/5/95	
TOTAL HRS.		
BORING FOREMAN	K. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND, some fine to coarse gravel	1	24"	24'
		2'-4'	D	"	"	"			" "	2	24"	24'
		4'-6'	D	"	"	"			Brown fine to coarse SAND, some peat, little fine to coarse gravel, trace wood	3	24"	24'
		6'-8'	D	"	"	"			Brown fine to coarse SAND, some fine to medium gravel	4	24"	24'
		8'-10'	D	"	"	"			Brown silty fine SAND, little coarse sand & fine to medium gravel	5	24"	24'
								10'	Bottom of Boring 10'			

GROUND SURFACE TO ____ USED CASING THEN

Sample Type
D - Dry C - Cored A - Auger
UP - Undisturbed Piston
TP - Test Pit A - Auger V - Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest.
REPORT SENT TO Above / Bldg. 65
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

DATE
HOLE NO NS-161
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size OD		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/6/95	
COMPLETE	1/6/95	
TOTAL HRS		
BORING FOREMAN	K. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND & fine to medium Gravel, trace asphalt	1	24"	-
		2'-4'	D	"	"	"			Brown fine to coarse SAND, some fine to medium gravel	2	24"	-
		4'-6'	D	"	"	"			Brown Gray fine to coarse SAND, little sandy peat, little silt	3	24"	24
		6'-8'	D	"	"	"			Brown fine to coarse SAND & fine Gravel	4	24"	24
		8'-10'	D	"	"	"			Brown fine to coarse SAND & fine to medium Gravel, little gray silty fine sand	5	24"	24
								10'	Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane test

Proportions used
trace 0 to 0%
little 0 to 20%
some 20 to 35%

140lb Wt x 30 fall on 2 O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest.
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

DATE
HOLE NO NS-162
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/7/95	
COMPLETE	1/7/95	
TOTAL HRS		
BORING FOREMAN	K. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND & Gravel	1	24"	24
		2'-4'	D	"	"	"			" "	2	24"	24
		4'-6'	D	"	"	"			" "	3	24"	24
		6'-8'	D	"	"	"			Brown fine to coarse SAND & fine Gravel, little organic silt & peat	4	24"	24
		8'-10'	D	"	"	"			Gray Brown silty fine SAND	5	24"	24
								10'	Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING ____ THEN ____

Sample Type
D Dry C Cored W Washed
U Undisturbed Piston
T Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO NS-163
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At 5.5' after Comp. Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	1/7/95	
COMPLETE	1/7/95	
TOTAL HRS.		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken			Moist		Dark Brown coarse to fine SAND & Gravel & Cobbles	1	24"	2
		2'-4'	D	"	"	"		3'		2	24"	2
		4'-6'	D	"	"	"	Moist	5'	Gray fine to coarse SAND & Gravel & Cobbles	3	24"	2
							Wet	6'	Dark Brown loamy PEAT			
		6'-8'	D	"	"	"	Moist	8'	Tan organic silty fine SAND	4	24"	1
		8'-10'	D	"	"	"	Moist	10'	Gray silty fine SAND	5	24"	1
									Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		15-30	Very Stiff
		30 +	Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-164
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At 5.5' after Comp Hours
At ... after ... Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3"	
Hammer Wt		300#	
Hammer Fall		30"	BIT

	Date	Time
START	1/5/95	
COMPLETE	1/5/95	
TOTAL HRS		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken				0.5'	Asphalt	1	24"	24
							Moist		Dark Gray Brown silty fine to coarse SAND & Gravel & Cobbles			
		2'-4'	D	"	"	"				2	24"	24
								3.5'				
		4'-6'	D	"	"	"	Moist	4.5'	Dark Brown loamy PEAT	3	24"	24
							Moist		Tan Organic SILT			
		6'-8'	D	"	"	"		6.5'		4	24"	18
							Wet		Gray silty fine SAND			
		8'-10'	D	"	"	"				5	24"	18
								10'				
									Bottom of Boring 10'			

GROUND SURFACE TO ... USED ... CASING THEN ...

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest.
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

DATE
HOLE NO NS-165
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/6/95	A.M. P.M.
COMPLETE	1/6/95	A.M. P.M.

TOTAL HRS.
BORING FOREMAN K. Allen
INSPECTOR
SOILS ENGR.

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND, some fine to medium gravel, trace asphalt	1	24"	15'
		2'-4'	D	"	"	"			Brown fi to coarse SAND, some fine to medium gravel	2	24"	24'
		4'-6'	D	"	"	"			Gray Brown fine to coars SAND, some fine to coarse gravel, little silt	3	24"	24'
		6'-8'	D	"	"	"			Gray silty fine SAND, some coarse sand & fine gravel, some peat	4	24"	24'
		8'-10'	D	"	"	"			Gray silty fine SAND	5	24"	24'
								10'				
									Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O.D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ. NO.
OUR JOB NO 95-41

DATE
HOLE NO. NS-166
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At None after Hours
At after Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	1/7/95	A.M.
COMPLETE	1/7/95	P.M.
TOTAL HRS.		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken			Moist		Brown fine to coarse SAND & Gravel, Cobbles & Boulders	1	24"	24
		2'-4'	D	"	"	"				2	24"	24
		4'-4.1'	D	"				4.1'		-	1"	0"
									Refusal - Bottom of Boring 4.1'			

GROUND SURFACE TO USED CASING THEN

Sample Type
D - Dry C - Cored W - Washed
UP - Undisturbed Piston
TP - Test Pit A - Auger V - Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" Fall on 2" OD Sampler
Cohesionless Density
0 - 10 Loose
10 - 30 Med Dense
30 - 50 Dense
Cohesive Consistency
0 - 4 Soft
4 - 8 M/Stiff
30 + Hard

SUMMARY
Earth Boring 4.1'
Rock Coring
Samples 2

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-167
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At 5' after Comp Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O.D.		3"	
Hammer Wt.		300#	BIT
Hammer Fall		30"	

	Date	Time
START	1/7/95	
COMPLETE	1/7/95	
TOTAL HRS.		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken			Moist		Dark Brown fine to coarse SAND & Gravel	1	24"	24
								2'				
		2'-4'	D	"	"	"	Moist		Gray Crushed Stone	2	24"	18
		4'-6'	D	"	"	"				3	24"	18
								5'				
							Wet	6'	Dark Brown loamy PEAT			
		6'-8'	D	"	"	"	Wet		Tan Organic SILT	4	24"	18
								8'				
		8'-10'	D	"	"	"	Wet		Gray silty fine SAND	5	24"	12
								10'				
									Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. NS-168
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At 5' after Comp. Hours
At ... after ... Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size OD		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	1/6/95	
COMPLETE	1/6/95	
TOTAL HRS		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken			Moist		Brown Gray fine to coarse SAND & Gravel	1	24"	24
		2'-4'	D	"	"	"				2	24"	24
								4'				
		4'-6'	D	"	"	"	Moist		Dark loamy PEAT	3	24"	24
								5'				
		6'-8'	D	"	"	"	Wet		Tan Organic SILT	4	24"	24
		8'-10'	D	"	"	"		8.5'		5	24"	18
								10'	Gray silty SAND			
									Bottom of Boring 10'			

GROUND SURFACE TO ... USED ... CASING THEN ...

Sample Type
D - Dry C - Cored W - Washed
UD - Undisturbed Piston
TP - Test Pit A - Auger V - Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" OD Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-169
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At 6' after Comp. Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	1/6/95	
COMPLETE	1/6/95	
TOTAL HRS.		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken			Moist		Dark Brown fine to coarse SAND & Gravel & Cobbles	1	24"	24
								2'				
		2'-4'	D	"	"	"	Moist		Brown fine to coarse SAND & Gravel	2	24"	24
		4'-6'	D	"	"	"				3	24"	18
								5'				
		6'-8'	D	"	"	"	Wet		Dark Brown loamy PEAT	4	24"	6
								8'				
		8'-10'	D	"	"	"	Wet		Gray silty fine SAND	5	24"	6
								10'				
									Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D - Dry C - Cored W - Washed
UP - Undisturbed Piston
TP - Test Pit A - Auger V - Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med. Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SE') above / Bldg. #5 | PROJ NO
SAMPLE' TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-170
LINE & STA.
OFFSET
SURF. ELEV.

GRC WATER OBSERVATIONS
At None after Comp Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	1/6/95	
COMPLETE	1/6/95	
TOTAL HRS.		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken			Moist		Brown fine to coarse SAND & Gravel, trace silt	1	24	12
								2'				
		2'-4'	D	"	"	"	Moist		Brown fine to coarse SAND, little gravel	2	24	24
		4'-6'	D	"	"	"				3	24	24
								6'				
									Refusal - Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D - Dry C - Cored W - Wash
UD - Undisturbed Piston
TP - Test Pit A - Auger V - Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2 OD Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. NS-171
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At None after Hours
At after Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	1/6/95	
COMPLETE	1/6/95	
TOTAL HRS		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken			Moist		Brown fine to coarse SAND & Gravel & Cobbles	1	24"	-
		2'-4'	D	"	"	"				2	24"	-
								4'	Refusal - Bottom of Boring 4'			
									Note: Drilled 2 Holes with refusal at 1'			

GROUND SURFACE TO USED "CASING THEN

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2 O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 4'
Rock Coring
Samples 2

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. NS-172
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS		CASING	SAMPLER	CORE BAR
At 5' after Comp. Hours	Type		S/S	
	Size: D		3"	
At ____ after ____ Hours	Hammer Wt		300#	BIT
	Hammer Fall		30"	

	Date	Time
START	1/6/95	
COMPLETE	1/6/95	
TOTAL HRS.		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND & Gravel & Cobbles	1	24"	2
		2'-4'	D	"	"	"				2	24"	2
		4'-6'	D	"	"	"				3	24"	2
								5.5'				
		6'-8'	D	"	"	"			Dark Brown loamy PEAT	4	24"	1
								6.5'				
								7.5'	Tan SILT			
		8'-10'	D	"	"	"			Gray silty fine SAND	5	24"	1
								10'				
									Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. NS-173
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At None after Comp Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I.D		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	1/7/95	
COMPLETE	1/7/95	
TOTAL HRS.		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not		Taken	Moist		Dark Gray Brown fine to coarse SAND & Gravel, Cobbles & Boulders	1	24#	
		2'-2.5'	D	"				2.5'		2	6"	
									Refusal - Bottom of Boring 2.5'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med. Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 2.5
Rock Coring
Samples 2

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-174
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At 6' after Comp. Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	1/5/95	
COMPLETE	1/5/95	
TOTAL HRS.		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken			Moist		Dark Brown fine to coarse SAND & Gravel & Cobbles	1	24"	24
		2'-4'	D	"	"	"				2	24"	24
		4'-6'	D	"	"	"		5.2'		3	24"	24
								5.7'	Dark Brown loamy PEAT			
		6'-8'	D	"	"	"	Moist to Wet		Tan Organic SILT	4	24"	22
								8'				
		8'-10'	D	"	"	"			Gray silty fine SAND	5	24"	18
								10'				
									Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ "CASING THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-175
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At 6' after Comp. Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	1/5/95	
COMPLETE	1/5/95	
TOTAL HRS.		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken			Moist	0.2'	Asphalt	1	24"	2
								1.8'	Dark Brown fine to coarse SAND & Gravel & Cobbles			
		2'-4'	D	"	"	"	Moist		Brown fine to coarse SAND & Gravel & Cobbles	2	24"	2
		4'-6'	D	"	"	"	Wet	5.6'		3	24"	2
		6'-8'	D	"	"	"	Wet		Gray silty SAND	4	24"	1
		8'-10'	D	"	"	"		10'		5	24"	1
									Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D - Dry C - Cored W - Washed
UP - Undisturbed Piston
TP - Test Pit A - Auger V - Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 10'
Rock Coring ____
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-176
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/7/95	
COMPLETE	1/7/95	
TOTAL HRS		
BORING FOREMAN	K. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From To	Type of Sample	Blows per 6 on Sample From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND & Gravel, trace wood (RR Tie)	1	24"	24"
		2'-4'	D	"	"	"			Gray fine to coarse SAND & Gravel	2	24"	24"
		4'-6'	D	"	"	"			Brown PEAT & Roots, some fine to coarse sand & gravel	3	24"	24"
		6'-8'	D	"	"	"			Brown PEAT, some silty fine sand	4	24"	24"
		8'-10'	D	"	"	"			Gray silty fine SAND, trace organic silt, trace roots	5	24"	24"
								10'	Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D-Dry C-Cored W-Washed
UP-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30+ Hard

SUMMARY
Earth Boring 10'
Rock Coring ____
Samples 5

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-177
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At 3' after Comp Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size-D		3"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	1/5/95	
COMPLETE	1/5/95	
TOTAL HRS		
BORING FOREMAN	A. Whitaker	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken			Moist		Dark Brown & Black silty fine to coarse SAND & Gravel & Cobbles	1	24"	24
		2'-4'	D	"	"	"				2	24"	24
		4'-6'	D	"	"	"		5'		3	24"	24
							Wet	5.5'	Dark Brown PEAT			
		6'-8'	D	"	"	"	Wet		Brown organic silty PEAT	4	24"	18
								8'				
		8'-10'	D	"	"	"	Wet		Gray silty SAND	5	24"	18
								10'				
									Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D-Dry C-Cored W-Washed
UP-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30+ Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-178
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/7/95	
COMPLETE	1/7/95	
TOTAL HRS.		
BORING FOREMAN	K. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND, some fine to coarse gravel	1	24"	24
		2'-4'	D	"	"	"			" "	2	24"	24
		4'-6'	D	"	"	"			" "	3	24"	24
		6'-8'	D	"	"	"			Brown PEAT, some fine sand	4	24"	2
		8'-10'	D	"	"	"			Brown silty fine SAND, some organic silt	5	24"	4
								10'	Bottom of Boring 10'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. NS-179
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/6/95	
COMPLETE	1/6/95	
TOTAL HRS		
BORING FOREMAN	K. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND, some fine to coarse gravel, little concrete	1	24"	24
		2'-4'	D	"	"	"			Brown fine to coarse SAND, some fine to medium gravel, trace silt	2	24"	14
		4'-6'	D	"	"	"			Brown fine to medium SAND, some peat, little silt	3	24"	14
		6'-8'	D	"	"	"			Brown PEAT, little fine to coarse sand	4	24"	6
		8'-10'	D	"	"	"			Gray silty fine SAND, little coarse sand	5	24"	12
								10'	Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO NS-180
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/7/95	
COMPLETE	1/7/95	
TOTAL HRS		
BORING FOREMAN	K. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND, some fine to medium gravel	1	24"	24
		2'-4'	D	"	"	"			" "	2	24"	24
		4'-6'	D	"	"	"			" "	3	24"	24
		6'-8'	D	"	"	"			Brown fine to coarse SAND, some fine to medium gravel, trace peat & silt	4	24"	7
		8'-10'	D	"	"	"			" "	5	24"	9
								10'				
									Bottom of Boring 10'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest.
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

DATE
HOLE NO. NS-181
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/6/95	
COMPLETE	1/6/95	
TOTAL HRS.		
BORING FOREMAN	K. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND, some fine to coarse gravel	1	24"	24
		2'-4'	D	"	"	"			" "	2	24"	24
		4'-6'	D	"	"	"			Brown fine to coarse SAND & fine to medium Gravel	3	24"	24
		6'-8'	D	"	"	"			Gray Brown fine to coarse SAND & fine Gravel, trace peat	4	24"	8
		8'-10'	D	"	"	"			Gray silty fine SAND, little coarse sand	5	24"	12
								10'	Bottom of Boring 10'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D-Dry C-Cored W-Washed
UD-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest. | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO NS-182
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	1/6/95	
COMPLETE	1/6/95	
TOTAL HRS		
BORING FOREMAN	K. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample: From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Brown fine to coarse SAND, some fine to coarse gravel	1	24"	2
		2'-4'	D	"	"	"			" "	2	24"	2
		4'-6'	D	"	"	"			" "	3	24"	2
		6'-8'	D	"	"	"			Brown fine to coarse SAND & fine to medium Gravel, little peat & organic silt	4	24"	1
		8'-10'	D	"	"	"			Gray Brown silty fine SAND, little peat & organic silt	5	24"	2
								10'	Bottom of Boring 10'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 10'
Rock Coring
Samples 5

118945

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Hazardous Waste Study
REPORT SENT TO above / Lot "K"
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-146

DATE
HOLE NO. 25 S x 8
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At Dry after 0 Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	12/8/94	
COMPLETE	12/8/94	
TOTAL HRS.		
BORING FOREMAN	A. Mason	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	2	3	8		10"	Dark Brown TOPSOIL	1	24'	2
						7			Brown fine to medium SAND,			
		2'-4'	D	7	11	12			little silt, little fine	2	24'	2
						12			to coarse gravel, trace			
		4'-6'	D	20	25	25			coarse sand	3	24'	2
						23						
		6'-8'	D	15	15	15				4	24'	2
						13		8'				
									Bottom of Boring 8'			

118945

GROUND SURFACE TO ____ USED ____ CASING ____ THEN ____

Sample Type
D: Dry C: Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140lb Wt x 30" fall on 2" O.D. Sample:

Cohesionless Density		Cohesive Consistency	
0 - 10	Loose	0 - 4	Soft
10 - 30	Med Dense	4 - 8	M/Stiff
30 - 50	Dense	8 - 15	Stiff
		30 +	Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 4

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Hazardous Waste Study
REPORT SENT TO above / Lot "K"
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-146

DATE
HOLE NO 28 S x 83
LINE & STA
OFFSET
SURF ELEV

GROUND WATER OBSERVATIONS
At 5' after 0 Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	12/8/94	
COMPLETE	12/8/94	
TOTAL HRS		
BORING FOREMAN	A. Mason	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	2	8	10		8"	Dark Brown TOPSOIL	1	24"	24
						19			brown fine to medium SAND,			
		2'-4'	D	20	7	4			little fine to coarse	2	24"	24
						3		4'	gravel, trace silt			
		4'-6'	D	1	2	3			Brown SILT & fine Sand	3	24"	2
						6		6'				
		6'-8'	D	9	13	13		7'	Yellow Br. silty fine SAND	4	24"	-
						15			Gray silty fine to medium			
								8'	SAND			
									Bottom of Boring 8'			

GROUND SURFACE TO CASING THEN

Sample Type
D Dry C Cored W Washed
U Undisturbed Piston
TP Test Pit A Auger P Pipe Test

Proportion Used
trace 0-10%
little 10-20%
some 20 to 35%

140lb Wt x 30" Fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		15 +	Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 4

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Hazardous Waste Study
REPORT SENT TO above / Lot "K"
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-146

DATE
HOLE NO 45 S x 75 E
LINE & STA
OFFSET
SURF ELEV

GROUND WATER OBSERVATIONS
At ... after ... Hours
At ... after ... Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		2"	
Hammer Wt		300#	
Hammer Fall		30"	BIT

	Date	Time
START	12/8/94	
COMPLETE	12/8/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From To	Type of Sample	Blows per 6 on Sampler From 0 To 6	6 to 12	12 to 18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	5	6	10			Dry, Brown fine to medium SAND & coarse Gravel, trace silt	1	24"	12"
						8						
		2'-4'	D	4	4	7			Moist, Brown silty fine SAND "ODOR"	2	24"	14"
						7						
		4'-6'	D	6	6	7			Wet, Gray silty fine SAND	3	24"	24"
						9						
		6'-8'	D	5	7	8			" "	4	24"	24"
						10		8'				
									Bottom of Boring 8'			

GROUND SURFACE TO
Sample Type
D Dry Cuttings A Auger
U Undisturbed Tube
T Test Pit A Auger Wash test

USE
Proportions used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

CASING THEN
(400 lb Wt falling 24" to Sampler
Cohesionless Density
0 to 4 Loose
4 to 10 Med Dense
10 to 30 Dense
Cohesive Consistency
0 to 4 Soft
4 to 8 M/Stiff
8 to 15 Stiff
15 + Hard

SUMMARY
Earth Boring 8'
Rock Coring
Samples 4

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Hazardous Waste Study
REPORT SENT TO above / Lot "K"
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-146

DATE
HOLE NO 50 S x 80 I
LINE & STA
OFFSET
SURF ELEV.

GROUND WATER OBSERVATIONS
At 4'6" after 0 hours
At after hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3"	
Hammer Wt		300#	BIT
Hammer Fall		24"	

	Date	Time
START	12/8/94	
COMPLETE	12/8/94	
TOTAL HRS		
BORING FOREMAN	A. Mason	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

Depth	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" of Sample 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	53	15	8		2"	Black Top	1	24"	24'
						6			Brown fine to coarse SAND,			
		2'-4'	D	7	7	7			little fine to coarse	2	24"	24'
						9		4'	gravel, trace silt			
		4'-6'	D	2	2	4			Brown fine to coarse SAND,	3	24"	8'
						4			trace silt			
		6'-8'	D	9	9	11		7'		4	24"	-
						10		8'	Gray Brown silty fine SAND			
									Bottom of Boring 8'			

GROUND SURFACE TO
Sample Type
CASING DATA
4.0 lb Wt Sel Iron 2" O.D. Sampler
Cohesionless Density
Cohesive Consistency
SUMMARY
Earth Boring 8'
Rock Coring
Samples 4

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Hazardous Waste Study
REPORT SENT TO above / Lot "K"
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-146

DATE
HOLE NO 65 S x 75
LINE & STA
OFFSET
SURF ELEV

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/8/94	
COMPLETE	12/8/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" or Sample From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	15	5	4			Dry, Dark Brown fine to med SAND & coarse Gravel, trace silt	1	24"	8'
						3						
		2'-4'	D	2	2	4			Moist to Wet, Brown silty fine SAND & coarse Gravel	2	24"	12'
						6						
		4'-6'	D	6	10	10			Moist, Brown changing to Gray silty fine SAND, trace coarse gravel	3	24"	24'
						12						
		6'-8'	D	3	7	10			Wet, Brown & Gray silty fine SAND	4	24"	24'
						7		8'				
									Bottom of Boring 8'			

GROUND SURFACE TO ____ FEET CASING THEN

Sample Type
D Split Spoon & Auger
C Core Barrel & Auger
T Test Pit & Auger
V Vane Test

Split Spoon Sampler
140 lbs Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density
0-4 Loose
5-10 Med Dense
30-50 Dense

Cohesive Consistency
0-4 Soft 30+ Hard
4-8 M/Stiff
8-15 Stiff

SUMMARY
Earth Boring 8'
Rock Coring
Samples 4

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments
PROJECT NAME Hazardous Waste Study
REPORT SENT TO above / Lot "K"
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-146

DATE
HOLE NO 85 S x 75
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ hours
At ____ after ____ hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size O.D.		3½"	
Hammer Wt.		300#	BIT
Hammer Fall		30"	

	Date	Time
START	12/8/94	
COMPLETE	12/8/94	
TOTAL HRS		
BORING FOREMAN	R. Allen	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" or Sample From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	9	7	7			Moist, Olive Brown & Gray silty fine SAND, trace coarse gravel	1	24"	12
						5						
		2'-4'	D	3	1	1			Moist, Dark Gray & Black silty fine SAND, trace coarse gravel	2	24"	6
						1						
		4'-6'	D	1	1	1			Moist, Dark Brown PEAT changing to Olive Brown silty fine SAND	3	24"	24
						2						
		6'-8'	D	1	1	6			Moist, Dark Brown PEAT with Gray silty fine Sand	4	24"	24
						7		8'				
									Bottom of Boring 8'			

GROUND SURFACE T...
Sampler Type
...y C Core A...
...nsulation ...
T... Test Pit A Auger ... Wash Test

CASING THEN
...400 Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density | Cohesive Consistency
... Loose | 0-4 Soft | 30 + Hard
... Med Dense | 4-8 M/Stiff
... Dense | 8-15 ...

SUMMARY
Earth Boring 8'
Rock Coring
Samples 4

118045

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO URS-1
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/28/94	
COMPLETE	10/28/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist.	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					4" Asphalt - Yellowish med. SAND & Gravel, Cobble	1	24"	6
		2'-3'	D	"	"	"			Dark Brown fine SAND & Yellowish medium Sand, some gravel	2	12"	1
								3'	Refusal - Bottom of Boring 3'			

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118945

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Auger
U Undisturbed Piston
T Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

(140lb Wt x 30" fall on 2 0.0 Sampler)
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 3'
Rock Coring
Samples 2

HOLE NO URS-1

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. URS-2
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/28/94	
COMPLETE	10/28/94	
TOTAL HRS.		
BORING FOREMAN	J.Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sample From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					4" Asphalt	1	24	"14
									Brown SAND & Gravel			
		2'-4'	D	"	"	"			" with Red Gravel	2	24	"16
		4'-6'	D	"	"	"			DO	3	24	"16
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D - Dry C - Cored W - Washed
U - Undisturbed Piston
T - Test Pit A - Auger V - Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

HOLE NO. URS-3
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/28/94	
COMPLETE	10/28/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown medium SAND & Gravel	1	24	'2
		2'-4'	D	"	"	"			" "	2	24	'2
		4'-6'	D	"	"	"			Brown medium SAND & coarse Gravel	3	24	'6
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thin-wall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
35 to 50%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
			30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO. URS-3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO URS-4
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/28/94	
COMPLETE	10/28/94	
TOTAL HRS		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					4" Asphalt Brown Red SAND & Gravel	1	24"	12
		2'-4'	D	"	"	"			" "	2	24"	12
								4'	Refusal - Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thin

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 4'
Rock Coring
Samples 2

HOLE NO URS-4

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. URS-5
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/28/94	a.m. p.m.
COMPLETE	10/28/94	a.m. p.m.

TOTAL HRS.
BORING FOREMAN J. Medeiros
INSPECTOR
SOILS ENGR.

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	24
		2'-4'	D	"	"	"			" "	2	24	18
		4'-6'	D	"	"	"			" "	3	24	24
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO. URS-5

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. URS-6
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/28/94	
COMPLETE	10/28/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Yellowish fine SAND & Gravel	1	24	18
		2'-4'	D	"	"	"			Yellowish fine SAND	2	24	18
		4'-6'	D	"	"	"			" with Cobble	3	24	6
								6'	Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. URS-7
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I.D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/28/94	
COMPLETE	10/28/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					4" Asphalt	1	24	16
									Brown SAND & Gravel			
		2'-4'	D	"	"	"			" "	2	24	12
		4'-6'	D	"	"	"			" "	3	24	14
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO. URS-7

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. URS-8
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/28/94	
COMPLETE	10/28/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					4" Asphalt - Yellowish med. to fine SAND, some gravel	1	24	18
		2'-4'	D	"	"	"			Brown medium SAND, some gravel, cobbles	2	24	24
		4'-6'	D	"	"	"			Yellowish medium SAND & Gravel	3	24	24
								6'	Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ "CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO. URS-8

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. URS-9
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/28/94	a.m. p.m.
COMPLETE	10/28/94	a.m. p.m.

TOTAL HRS.
BORING FOREMAN J. Medeiros
INSPECTOR
SOILS ENGR.

LOCATION OF BORING

DEPTH	Casing Blows per 1oo'	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					4" Asphalt	1	24	16
									Brown SAND & Gravel			
		2'-4'	D	"	"	"			" "	2	24	14
		4'-6'	D	"	"	"			" "	3	24	16
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED CASING THEN ____

Sample Type
D: Dry C Cored W Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0 10	Loose	0 4	Soft	30 + Hard
10 30	Med Dense	4 8	M/Stiff	
30 50	Dense	8 15	Stiff	

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO. URS-9

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. URS-10
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/28/94	
COMPLETE	10/28/94	

TOTAL HRS.
BORING FOREMAN P. Vieira
INSPECTOR
SOILS ENGR.

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not		Taken			Yellowish medium SAND & Gravel	1	24	'2
		2'-4'	D	"	"	"			" with coarse Gravel	2	24	'2
		4'-4'4"	D	"	"	"		4'4"	(No Recovery)	3	4	'
									Refusal - Bottom of Boring 4'4"			

GROUND SURFACE TO _____ USED _____ "CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt. x 30" fall on 2" O.D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 4'4'
Rock Coring
Samples 3

HOLE NO. URS-1

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. URS-11
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/29/94	a.m. p.m.
COMPLETE	10/29/94	a.m. p.m.
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	22
		2'-4'	D	"	"	"			" "	2	24	14
		4'-6'	D	"	"	"			" "	3	24	20
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO URS-1

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. URS-12
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ___ Hours
At _____ after ___ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/29/94	
COMPLETE	10/29/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per 1oo!	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					3" Asphalt - Brown medium SAND & Yellowish fine Sand & Gravel	1	24	24
		2'-4'	D	"	"	"			Yellowish fine SAND	2	24	24
		4'-6'	D	"	"	"			" "	3	24	20
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UD: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. URS-13
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/29/94	
COMPLETE	10/29/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					12" Concrete Brown SAND & Gravel	1	24	1'
		2'-4'	D	"	"	"			" "	2	24	1'
		4'-6'	D	"	"	"			(No Recovery)	3	24	1'
								6'	Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ "CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt. x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		30+	Hard

SUMMARY:
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO. URS-1

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

DATE
HOLE NO URS-14
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/29/94	a.m.
COMPLETE	10/29/94	p.m.
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Brown medium SAND, some gravel	1	24	24
		2'-4'	D	"	"	"			Brown medium to fine SAND with Peat	2	24	24
		4'-6'	D	"	"	"			" with Wood	3	24	18
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O D Sampler
Cohesionless Density
0-10 Loose
10-30 Med Dense
30-50 Dense

Cohesive Consistency
0-4 Soft
4-8 M/Stiff
8-15 Stiff
30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO. URS-15
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size, D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/29/94	
COMPLETE	10/29/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown medium SAND & Gravel	1	24	24
		2'-4'	D	"	"	"			Rusty fine SAND & Gravel	2	24	12
		4'-6'	D	"	"	"			Yellowish fine to medium SAND & Gravel	3	24	1
								6'	Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test
UT: Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt x 30" fall on 2 O D Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO URS-1

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. URS-16
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/29/94	
COMPLETE	10/29/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Brown medium SAND, some gravel	1	24	12
		2'-4'	D	"	"	"			Yellowish fine SAND & Brown medium to fine Sand	2	24	13
		4'-6'	D	"	"	"			" with coarse Gravel	3	24	4
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. URS-17
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/29/94	
COMPLETE	10/29/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					4" Asphalt	1	24"	18
									Brown SAND & Gravel			
		2'-4'	D	"	"	"			" "	2	24	12
		4'-6'	D	"	"	"			" "	3	24	6
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A: Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO URS-18
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/29/94	
COMPLETE	10/29/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not		Taken			4" Asphalt	1	24	24
									Dark Brown medium SAND & Gravel			
		2'-4'	D	"	"	"			" with Gray fine Sand	2	24	24
		4'-6'	D	"	"	"			Gray fine SAND	3	24	22
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D-Dry C-Cored W-Washed
UP-Undisturbed Piston
TP-Test Pit A Auger V-Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO. URS-19
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/29/94	a.m. p.m.
COMPLETE	10/29/94	a.m. p.m.
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					4" Asphalt	1	24	18
									Brown SAND & Gravel			
		2'-4'	D	"	"	"			" "	2	24	12
		4'-6'	D	"	"	"			" "	3	24	6
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D - Dry C - Cored W - Washed
UP - Undisturbed Piston
TP - Test Pit A - Auger V - Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO URS-20
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/29/94	
COMPLETE	10/29/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Fine to medium SAND & Gravel, Cobbles	1	24"	2
		2'-4'	D	"	"	"				2	24"	1
								4'				
									Refusal - Bottom of Boring 4'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP Undisturbed Piston
TP: Test Pit A: Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O D Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 4'
Rock Coring
Samples 2

HOLE NO URS-2

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO URS-21
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/30/94	
COMPLETE	10/30/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24"	2
		2'-4'	D	"	"	"			" "	2	24"	1
		4'-6'	D	"	"	"			" "	3	24"	1
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D: Dry C: Cored W: Auger
UP: Undisturbed Piston
TP: Test Pit A Auger V Vane Test

Proportions Used
Trace 0 to 10%
Little 10 to 20%
Some 20 to 35%

140 lb Wt x 30" fall on 2 O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30+ Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO URS-22
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size - D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/30/94	
COMPLETE	10/30/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					2" Asphalt - Brown medium to fine SAND & Gravel, Cobbles	1	24	1' 2
		2'-4'	D	"	"	"			Dark Brown fine SAND & Gravel	2	24	1' 2
		4'-6'	D	"	"	"			" "	3	24	1' 1
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
UD Undisturbed Piston
TP Test Pit A Auger Shelby Test
UT Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2 O.D Sampler
Cohesionless Density
0 10 Loose
10 30 Med Dense
30 50 Dense

Cohesive Consistency
0 4 Soft
4 8 M/Stiff
8 15 Stiff
15 30 Very Stiff
30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO URS-22

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

DATE
HOLE NO URS-23
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after _____ Hours
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/30/94	
COMPLETE	10/30/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					4" Asphalt Yellowish medium to fine SAND & Gravel	1	24	20
		2'-4'	D	"	"	"			Yellowish fine SAND, little gravel	2	24	19
		4'-6'	D	"	"	"			Rusty fine SAND	3	24	24
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D: Dry C: Cored W: Washed
UP: Undisturbed Piston
TP: Test Pit A Auger V: Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140lb Wt x 30" fall on 2 O D Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		15-30	Hard
		30 +	

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO URS-2

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

DATE
HOLE NO URS-24
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At _____ after ____ Hours
At _____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/30/94	
COMPLETE	10/30/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	24
		2'-4'	D	"	"	"			" "	2	24	12
		4'-6'	D	"	"	"			" "	3	24	12
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO _____ USED _____ CASING THEN _____

Sample Type
D-Dry C-Cored A-Asphalt
UP-Undisturbed Piston
TP-Test Pit A-Auger V-Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140lb Wt x 30" fall on 2 O.D. Sampler
Cohesionless Density
0-10 Loose
10-30 Med Dense
30-50 Dense

Cohesive Consistency
0-4 Soft
4-8 M/Stiff
8-15 Stiff
30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO URS-25
LINE & STA
OFFSET
SURF ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size-D		3½"	
Hammer Wt		300#	BIT
Hammer Fal		30"	

	Date	Time
START	10/30/94	
COMPLETE	10/30/94	
TOTAL HRS		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6 on Sample: From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	R
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24	"1
		2'-4'	D	"	"	"			" "	2	24	"1
		4'-6'	D	"	"	"			" "	3	24	"1
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored A Auger
UD Undisturbed Piston
T Test Pit A Auger W Wash Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO URS-

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments
PROJECT NAME Low Level Radiation Invest
REPORT SENT TO above / Bldg. #5
SAMPLES SENT TO Taken at Site

ADDRESS Attleboro, Mass.
LOCATION Attleboro, Mass.
PROJ NO
OUR JOB NO 95-41

DATE
HOLE NO. URS-26
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/30/94	
COMPLETE	10/30/94	
TOTAL HRS.		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From To	Type of Sample	Blows per 6 on Sample From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Rec
		0'-2'	D	Blows not Taken					Brown medium SAND, some gravel	1	24	24
		2'-4'	D	"	"	"			Brown fine SAND & Gravel	2	24	18
		4'-6'	D	"	"	"			White fine SAND	3	24	18
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO CASING THEN

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0-10%
little 10-20%
some 20-35%

140lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density
0-10 Loose
10-30 Med Dense
30-50 Dense

Cohesive Consistency
0-4 Soft 30+ Hard
4-8 M/Stiff
8-15 Stiff

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ NO
SAMPLES SENT TO Taken at Site | OUR JOB NO 95-41

HOLE NO URS-27
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/30/94	
COMPLETE	10/30/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Orange SILT & Brown medium Sand	1	24	
								2'				
		2'-4'	D	"	"	"		3'	Orange SILT	2	24	
									White fine SAND, little gravel			
		4'-6'	D	"	"	"		4'6"		3	24	
									Gray fine SAND			
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED CASING THEN

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test
UT Undisturbed Thin

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler
Cohesionless Density
0 to 4 Loose
4 to 10 Med Dense
10 to 30 Dense
30 to 50 Very Dense

Cohesive Consistency
0 to 4 Soft
4 to 8 M/Stiff
8 to 15 Stiff
15 to 30 V Stiff
30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO URS-2

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

HOLE NO URS-28
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type		S/S	
Size ID		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/30/94	
COMPLETE	10/30/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From To	Type of Sample	Blows per 6" of Sampler From 0-6	To 6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock-color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24"	1
		2'-4'	D	"	"	"			" "	2	24"	1
		4'-6'	D	"	"	"			" "	3	24"	1
								6'	Bottom of Boring 6'			

GROUND SURFACE TO ____ USED ____ CASING ____ THEN ____

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 5%
little 5 to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2 O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO URS-28

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 PROJ NO
SAMPLES SENT TO Taken at Site OUR JOB NO 95-41

DATE
HOLE NO. URS-29
LINE & STA
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR
Type	O	S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/30/94	
COMPLETE	10/30/94	
TOTAL HRS		
BORING FOREMAN	P. Vieira	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen	Re
		0'-2'	D	Blows Not Taken					Dark Brown medium SAND	1	24	12
		2'-4'	D	"	"	"			" "	2	24	11
		4'-6'	D	"	"	"			(No Recovery)	3	24	1
								6'				
									Bottom of Boring 6'			

GROUND SURFACE TO ____ USED CASING THEN

Sample Type
D Dry C Cored W Washed
UP Undisturbed Piston
TP Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30 fall on 2 O.D. Sampler
Cohesionless Density: 0-10 Loose; 10-30 Med Dense; 30-50 Dense
Cohesive Consistency: 0-4 Soft; 4-8 M/Stiff; 8-15 Stiff; 30 + Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

100 WATER STREET EAST PROVIDENCE, R I

TO Texas Instruments | ADDRESS Attleboro, Mass.
PROJECT NAME Low Level Radiation Invest | LOCATION Attleboro, Mass.
REPORT SENT TO above / Bldg. #5 | PROJ. NO.
SAMPLES SENT TO Taken at Site | OUR JOB NO. 95-41

DATE
HOLE NO. URS-30
LINE & STA.
OFFSET
SURF. ELEV.

GROUND WATER OBSERVATIONS
At ____ after ____ Hours
At ____ after ____ Hours

	CASING	SAMPLER	CORE BAR.
Type		S/S	
Size I D		3½"	
Hammer Wt		300#	BIT
Hammer Fall		30"	

	Date	Time
START	10/30/94	
COMPLETE	10/30/94	
TOTAL HRS.		
BORING FOREMAN	J. Medeiros	
INSPECTOR		
SOILS ENGR.		

LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" or Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock - color, type, condition, hardness, Drilling time, seams and etc	SAMPLE No	Pen
		0'-2'	D	Blows not Taken					Brown SAND & Gravel	1	24"
		2'-4'	D	"	"	"			" "	2	24"
		4'-6'	D	"	"	"			(No Recovery)	3	24"
								6'	Bottom of Boring 6'		

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GROUND SURFACE TO ____ USED ____ CASING THEN ____

Sample Type
D Dry C Cored W Washed
U Undisturbed Piston
T Test Pit A Auger V Vane Test

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%

140 lb Wt x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
		15-30	Hard
		30 +	Hard

SUMMARY
Earth Boring 6'
Rock Coring
Samples 3

HOLE NO. URS-

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Radiological Surveys of Open Land Areas

Texas Instruments Incorporated
Attleboro, Massachusetts

Special Nuclear Material License No. 23
Docket No. 70-33

Revision 0.0

Prepared by

CPS Environmental, Inc.
May 1995

118945

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1.0 Executive Summary

Texas Instruments Incorporated has undertaken a comprehensive approach in the identification of potential contaminants at the Attleboro facility. This approach is presented in detail within the "Supplement to the 1992 Remediation Plan"(Supplement Plan) submitted in December 1994 to the U.S. Nuclear Regulatory Commission. This document presents information related to the radiological surveys of the open land areas conducted in accordance with the Supplement Plan. Information related to building structures will be presented within future reports. As stated within the "Supplement Plan", the Texas Instruments Incorporated site located within Attleboro, Massachusetts is an extensive site incorporating 250 acres (Figure 1). Not all of this area has been used or developed, and in fact, only 60% of the site has been developed.

The open land area surveys and the methodologies for the conduct of these surveys are presented within the "Supplement to the 1992 Remediation Plan". These open land area surveys are defined as affected (Figure 2) or unaffected (Figure 3) areas for the purposes of this report. Unaffected area surveys included 100% walk over scans and random subsurface soil samples. In addition, any area which demonstrated itself as an anomaly defined by an elevated response while conducting walk-over scans was subject to surface and/or subsurface soil sampling.

Likewise, affected areas included 100% walkover scans, but also included systematic subsurface soil sampling. While conducting affected area systematic subsurface soil sampling, static measurements were obtained at each grid intersection and borehole logging was performed for each subsurface soil sample location.

This report presents survey results for affected and unaffected areas. The affected areas are separated into six survey locations rather than the ten (10) presented within the "Supplement to the 1992 Remediation Plan" since many of the areas were in close proximity to each other resulting in an overlap of survey areas. These areas include the Stockade Area and Railroad Spur, Building 10 Perimeter and Building 10 Alleged Zirc Burning Area, Building 12 South Lawn and Building 11 Drainage Ditch, Building 12 North and West Sides, the Hill South of Building 17, and the Building 12 Airline Debris Hill. Grid patterns established for this survey were standardized to 10 meter by 10 meter grids designated by distance from a convenient bench mark along compass directions. The convenient benchmark for the areas were generally building references or referenced to past survey origins.

The affected area surveys spanned an area in excess of 63,000 m^2 exclusive of the Materials Recovery Area which will be addressed within a separate report. These surveys resulted in over 1600 subsurface soil locations of varying depth which resulted in the collection of 5865 soil samples for analysis. These samples indicated that a total of 161 grid cells (10m x 10m cells)

had sample(s) in excess of 30 pCi g^{-1} resulting in 85 grid cells (8500 m^2) which will require evaluation and resolution.

Unaffected open land area surveys were conducted in a manner similar to that described for the affected areas, except that grids were not established (Figure 3). The unaffected area 100% walk over scans resulted in no anomalies. The random (30) subsurface soil sampling program resulted in all soil samples having concentrations below the criteria with the exception of one subsurface sample. The location of this one elevated soil sample was in close proximity to the "Stockade" area north of building 11 and resulted in the extension of the "Stockade" area to include the area about this sample location. In addition, biased sample locations will be chosen for further subsurface soil sampling but was not completed at the time of this report.

2.0 Affected Areas

2.1 Overview of Affected Areas

2.1.1 Description of Areas

The affected areas (Figure 2) as defined within the "Supplement Plan" have been surveyed and the results of this survey are presented. The affected areas are separated into six survey locations rather than the ten (10) presented within the "Supplement Plan" since many of the areas were in close proximity to each other resulting in an overlap of survey areas. These areas are presented as separate sections within this report as follows: Stockade Area and Railroad Spur, Building 10 Perimeter and Building 10 Alleged Zirc Burning Area, Building 12 South Lawn and Building 11 Drainage Ditch, Building 12 North and West Sides, the Hill South of Building 17, and the Building 12 Airline Debris Hill.

The affected area surveys spanned an area in excess of 63,000 m^2 exclusive of the Metals Recovery Area which will be addressed within a separate report. These surveys resulted in over 1600 subsurface soil locations of varying depth which resulted in the collection of 5865 soil samples for analysis. These samples indicated that a total of 161 grid cells (10m x 10m cells) had sample(s) in excess of 30 pCi g^{-1} resulting in 85 grid cells (8500 m^2) which will require evaluation and resolution.

2.1.2 Survey Methods

Grid patterns selected for this survey were standardized to 10 meter by 10 meter grids designated by distance from a convenient benchmark along compass directions. In all cases, the benchmark for the areas was either a building reference or referenced to a past survey origin. Each benchmark origin is specified for the six affected areas presented.

Within the grid system identified for each affected area, 100% surface scans were performed. These scans were made using a standard 1" by 1" NaI(Tl) detector coupled to a rate meter with an audio output. Head phones were used as a sensitive method to determine the presence of elevated readings. The scanning rate did not exceed 0.5 m/s. Elevated readings were identified as values exceeding 1.5 to 2.0 times nominal background readings. Elevated readings were referenced to a facility map.

Direct measurements were performed as static measurements at locations chosen for the sub-surface soil samples. These measurements were also performed using a standard 1" by 1" NaI (Tl) detector coupled to a rate meter.

Subsurface soil samples were also obtained throughout the affected area. The use of systematic subsurface soil samples provided greater sensitivity than surface surveys since activity deposited at depth would not be readily identified by surface scans or static measurements due to shielding from overburden (if present) and self shielding provided by the soils. Subsurface soil samples were obtained using split spoon sampling methods. The number of split spoon samples was established as 5 per grid cell, one at each corner and one in the center of the grid. Specific areas that were addressed as affected areas are depicted in Figure 2.

2.1.3 Survey Results

For each area, maps have been provided that show the extent of sampling and the grid cell averages for areas which included any sample greater than 30 pCi g^{-1}. The grid cell averages were determined by averaging the alpha screening results at each depth (0-0, 0-1', 1'-2', etc.). The grid cell averages are summarized on maps for each area and the grid cell average calculations are included within the Appendices. The grid cell averages recorded on each map indicate the highest average (pCi g^{-1}) from any depth. In addition, each map indicates the range of depths for which calculated averages exceed 30 pCi g^{-1} total Uranium.

The soil sample results presented within this report were obtained by using the field alpha counting technique previously described within the "Final Report for the Remediation of the Former Radioactive Waste Burial Site, September 1993". Past established correlations have

demonstrated that the gross counts obtained in a 10 minute count with the alpha counting technique are equivalent, for the situation at hand, to the total Uranium concentration in the sample (pCi g^{-1}). Alpha screening results of less than 15 counts/ 10 minutes have been shown to be equivalent to approximately 2 pCi/g total Uranium and therefore these results have been treated accordingly for purposes of determining grid cell averages. In addition to the results obtained from this field technique, 5% of the samples are being analyzed by gamma spectroscopy and 1% of the samples are being analyzed by alpha spectroscopy using an independent laboratory. Past reference samples (from the Former Burial Area) are also being selected for independent analysis as a quality assurance measure. These results were not available at the time this report was written.

2.2 Stockade Area and Railroad Spur

2.2.1 Description of Area

The stockade area is located on the south side of Willard Road between Buildings 10 and 11 about 50 meters south of Building 10 and encompassing part of Parking Lot "K". The Railroad spur is located near the southern property boundary south of Willard Road and situated between the Metals Recovery Area and Parking Lot "K". These two areas are immediately adjacent to each other, and for purposes of this report, are included together.

The Stockade Area was designated as a storage facility for waste wash-water and pickling acid solutions. It was previously enclosed by a stockade fence. The railroad spur is considered to be a transition area between the Metals Recovery Area and the Stockade Area at which soil contamination could have originated from either area.

This area is complicated by a preponderance of underground and above-ground utilities and systems. Underground utilities in this area include: electrical duct banks feeding the Switchgear yard area, electrical feeds to the various buildings, fire mains, communications duct banks, process water supply and returns, cooling water feeds to the cooling towers and storm water drains. Overhead obstacles included electrical utilities and liquid process systems extending from the south-east side of Building 10 to Building 11.

Surveys conducted around the Switchgear Building will be included as part of the Metals Recovery Area (Building 5) Final Report.

2.2.2 Scope of Survey

The grid system that was established for this survey is a system of intersecting lines established at 10 meter intervals with the origin established 20 meters south and 30 meters west of the

south-west corner of Building 10. The area defined by the coordinate system for purposes of this survey encompassed an area of approximately 10,800 m^2 (Figure 4). Within this area 199 subsurface soil sample locations were identified representing approximately 700 samples.

The process of obtaining the subsurface soil samples required various depths due to various site conditions which included a vast array of underground utilities, particularly electric. The sample depths ranged from 0.61 meters (2 feet) in 0.30 meter (1 foot) increments in the vicinity of the railhead to 3.05 meters (10 feet) in 0.30 meter (1 foot) increments in the former stockade area.

2.2.3 Survey Results

The walkover survey performed within the Stockade Area indicated a few isolated elevated readings in the Northeast side of the area and the Northwest portion of the site near the Railroad Spur. Surface soil samples were not obtained in this case since much of the area was covered with asphalt and the systematic subsurface soil sampling was used to identify soil contamination for these areas.

Of the 700 subsurface soil samples, 68 were identified as exceeding 30 pCi g^{-1} total Uranium (Figure 4). Within the 107 grid cells sampled, 44 grid cells had all samples below the criteria, whereas the remaining 63 grid cells had samples in excess of the criteria (Figure 5).

Table I gives a summary of the sample results and grid cell averages for this area. A complete set of the alpha screening data along with large format ("D" size) drawings are provided within Appendix A. The bore hole data are included in Attachment 1.

2.3 Building 10 Perimeter and Building 10 Alleged Zirconium Burning Area

2.3.1 Description of Area

The Building 10 Perimeter survey was conducted since most of the nuclear manufacturing operations occurred in this building. The loading ramp on the west side was the site of earlier remediation efforts during the closure of the HFIR project. In addition, past surveys including those of ORAU's surveys in 1984 had indicated the presence of elevated survey results (direct gamma measurements and some surface soil contamination).

In close proximity and southeast of Building 10, a portion of unspecified size within Parking Lot "M" was identified as suspect because of alleged burning of zirconium chips. Since the extent of this area was not very well identified, it was decided conservatively to extend the bounds of

this survey area to the building 10 perimeter survey.

Together, these areas will be generically identified as the building 10 perimeter survey.

2.3.2 Scope of Survey

The grid system that was established for this survey is a system of intersecting lines established at 10 meter intervals with the origin established 20 meters south and 30 meters west of the southwest corner of Building 10. The area defined by the coordinate system for purposes of this survey encompasses an area of approximately 17,800 m^2.

Depths of subsurface sampling ranged from 0.91 meters (3 feet) to 1.83 meters (6 feet). Each grid cell is defined by a 10m by 10m area (100 m^2) and within the 17,800 m^2 area 360 subsurface sample locations were identified representing approximately 1300 soil samples (Figure 6). Of the 360 sub surface soil sample locations 119 were to a 0.91 meter (3 foot) depth in 0.30 meter (1 foot) increments and 241 sample locations were to a depth of 1.83 meters (6 feet) in either 0.30 meter (1 foot) or 0.61 meter (two foot) increments. The deeper sampling was performed principally in the area of the suspected zirconium burning area and towards Willard Road where the Building 10 Perimeter meets the Stockade Area. The shallower sampling (0.91 meters) was performed around the building perimeter since it was suspected that this area had the greatest potential for near surface contamination (refer to "Supplement Plan").

2.3.3 Survey Results

The walkover survey performed in this area indicated no areas in excess of 1.5 times nominal background. Static measurements performed in this area were also all less than 1.5 times nominal background levels.

Of the 1300 subsurface soil samples obtained, only 5 samples indicated activity concentrations in excess of the criteria. These samples had concentrations of 32, 39, 46, 100, and 172 pCi g^{-1} for grid coordinates 0 N x 160 E, 15 S x 145 E, 5 S x 115 E, 142.5 N x 122.5 E, and 150 N x 120 E respectively (Figure 6).

One grid along the east side of Building 10 in the Northeast corner below the lab wing yielded a grid cell average in excess of the criteria (Figure 7). This area was recently remediated (December 1994).

Table II gives a summary of the sample results and grid cell averages for this area. A complete set of the alpha screening data along with large format ("D" size) drawings are provided within Appendix B. The bore hole data are included in Attachment 1.

2.4 Building 12 South Lawn and Building 11 Drainage Ditch

2.4.1 Description of Area

Located in the landscaped lawn area south of Building 12, this area was identified during survey activities of Oak Ridge Associated Universities in 1984 which identified a few isolated areas exhibiting elevated radiation levels. It is presumed that final grading operations at the conclusion the construction of Building 12 led to this contamination. Presumably contaminants were spread from the former burial area to the subject area. To properly address this area, it was decided to treat this area as an affected area for the purposes of conducting surveys. In addition, a former drainage ditch originating from Building 11 and traversing the southern section of the lawn was included in this survey.

2.4.2 Scope of Survey

The coordinate system for this reference grid was based on compass direction and distance with a reference established at the northwest corner (Mechanical Room) of Building 12 having coordinates 160 N and 180 E. The area defined by the coordinate system for purposes of this survey encompasses an area of approximately 21,400 m^2.

Each grid cell was defined by a 10m by 10m area (100 m^2) and within the 21,400 m^2 area 663 subsurface soil sample locations were identified representing approximately 2000 samples (Figure 8).

One area worthy of note in the Building 12 South Lawn area was defined by the grid coordinates 80 to 120 North by 130 to 310 East which had a number of soil samples which were marginally above the criteria. This area was subject to further sampling to ascertain whether a 13 location sampling scheme would result in favorable grid cell averages. This was achieved to a limited extent along the eastern boundary of this area (Figure 9).

2.4.3 Survey Results

This area included a walkover survey which indicated no areas greater than 1.5 times nominal background. Static measurements performed in this area were also all less than 1.5 times nominal background levels.

Of the 663 subsurface soil sample locations, 116 locations were identified which had samples in excess of the criteria. Within the 215 grid cells sampled, 154 grid cells had all samples below the criteria, whereas the remaining 61 grid cells had samples in excess of the criteria. Of these 61 grid cells, 28 grid cells had averages less than the criteria (Figure 10).

Table III gives a summary of the sample results and grid cell averages for this area. A complete set of the alpha screening data along with large format ("D" size) drawings are provided within Appendix C. The bore hole data are included in Attachment 1.

2.5 Building 12 North and West Side

2.5.1 Description of Area

This area is described as being located at the lawns and under parking lots and driveways on the North and West Sides of Building 12. The northern border extends up to an undeveloped area and the western border extends as far as the east side of Building 11. Excluded from this survey, is an area described as the former Building 12 Burial Site which has been previously remediated.

2.5.2 Scope of Survey

The coordinate system for this reference grid was based on compass direction and distance with a reference established at the northwest corner (Mechanical Room) of Building 12 having coordinates 160 N and 180 E. The area defined by the coordinate system for purposes of this survey encompasses an areas of approximately 11,100 m^2.

Each grid cell is defined by a 10m by 10m area (100 m^2) and within the 11,100 m^2 area 272 subsurface soil sample locations were identified resulting in approximately 1400 samples (Figure 11). Depths of the subsurface soil sampling ranged from 1.83 meters (6 feet) to 3.05 meters (10 feet) in 0.61 meter (two foot) increments. Areas which had evidence of contamination in excess of 1.83 meters (6 feet) were extended to 3.05 meters (10 feet). In some areas, samples could not be readily obtained due to underground utilities. Areas which had interference from underground utilities were compensated to the extent possible by shifting the location of the sample slightly.

2.5.3 Survey Results

This area included a walkover survey which did not indicate any anomalies throughout the area, and therefore, surface soil samples were not obtained. However, this area was designated for systematic subsurface soil sampling in order to identify any potential soil contamination in this area. Static measurements performed in this area were also all less than 1.5 times nominal background levels.

Of the 272 sub surface soil sample locations, 31 locations were identified which had samples in excess of the criteria. Within the 113 grid cells sampled, 87 grid cells had all samples below the criteria, whereas the remaining 26 grid cells had samples in excess of the criteria. Of these 26 grid cells, 19 grid cells had averages less than the criteria (Figure 12).

Table IV gives a summary of the sample results and grid cell averages for this area. A complete set of the alpha screening data along with large format ("D" size) drawings are provided within Appendix C. The bore hole data are included in Attachment 1.

2.6 Hill South of Building 17

2.6.1 Description of Area

During the construction of the connecting building between Building 4 and Building 10 it was alleged, through employee interviews, that excavated material was translocated to an area south of Building 17. This area is identified as a hill south of Building 17. Since this material was recovered from an area in close proximity to the nuclear operations it was deemed prudent to classify this area as affected and sample accordingly.

2.6.2 Scope of Survey

The coordinate system for this reference grid is based on compass direction and distance and is extended from the Building 12 coordinate system. The area defined by the coordinate system for purposes of this survey encompasses an areas of approximately 1,800 m^2.

Since this area was an overburden hill the split spoon samples were obtained to a depth of 4.6 meters (15 feet) in two foot increments to approximately original grade. Each grid cell is defined by a 10 m x 10 m area (100 m^2) and within the 1,800 m^2 area 55 split spoon locations were identified representing a approximately 275 samples for analysis (Figure 13).

2.6.3 Survey Results

This area included a walkover survey which indicated elevated readings in a small area described by coordinates 30-40 South by 130-140 East. Walkover scans and static measurements performed in the remainder of the area were found to be less than 1.5 times nominal background. Surface soil samples were obtained in the area identified as elevated during the walkover yielding an average of 175 pCi g^{-1}.

Of the 275 subsurface soil samples, 10 samples were identified in excess of the criteria. Fourteen grid cells (1400 m^2) were found to have all samples less than the criteria. Four grid cells (400 m^2) were identified as having samples in excess of the criteria. Two of these cells had averages less than the criteria and the other two remaining cells had averages exceeding the criteria with one grid cell having an activity concentration average of 175 pCi g^{-1}. The maximum depth for this cell was 0.15 meters (0.5 feet) (i.e., surface samples) whereas the other grids had contamination at depths of 1.2 meters (4 feet) for two grids and 1.83 meters (6 feet) for 1 grid (Figure 14). This area was recently remediated (December 1994).

Table V gives a summary of the sample results and grid cell averages for this area. A complete set of the alpha screening data along with large format ("D" size) drawings are provided within Appendix D. The bore hole data are included in Attachment 1.

2.7 Building 12 Airline Debris

2.7.1 Description of Area

During installation of buried, compressed-air utility lines between Buildings 11 and 12 in 1980, excavated material/debris was translocated to an area on the eastern boundary of the developed portion of the Attleboro site. Since some of this excavated material originated from the former burial area, this area was classified as an affected area.

2.7.2 Scope of Survey

The coordinate system for this reference grid is based on compass direction and distance and is extended from the Building 12 coordinate system. The area defined by the coordinate system for purposes of this survey encompasses an areas of approximately 400 m^2.

Since this area was an overburden hill, the split spoon samples were obtained to a depth of 4.6 meters (15 feet) and 7.62 meters (25 feet) in 0.61 meters (2 foot) increments to approximately 3.05 meters (10 feet) below original grade. Each grid cell is defined by a 10m by 10m area

(100 m^2) and within the 400 m^2 area 55 split spoon locations were identified resulting in approximately of 190 samples (Figure 15).

2.7.3 Survey Results

This area included a walkover survey which did not indicate any anomalies throughout the area, and therefore, surface soil samples were not obtained. However, this area was designated for systematic subsurface soil sampling in order to identify any potential soil contamination in this area. Static measurements performed in this area were also all less than 1.5 times nominal background levels.

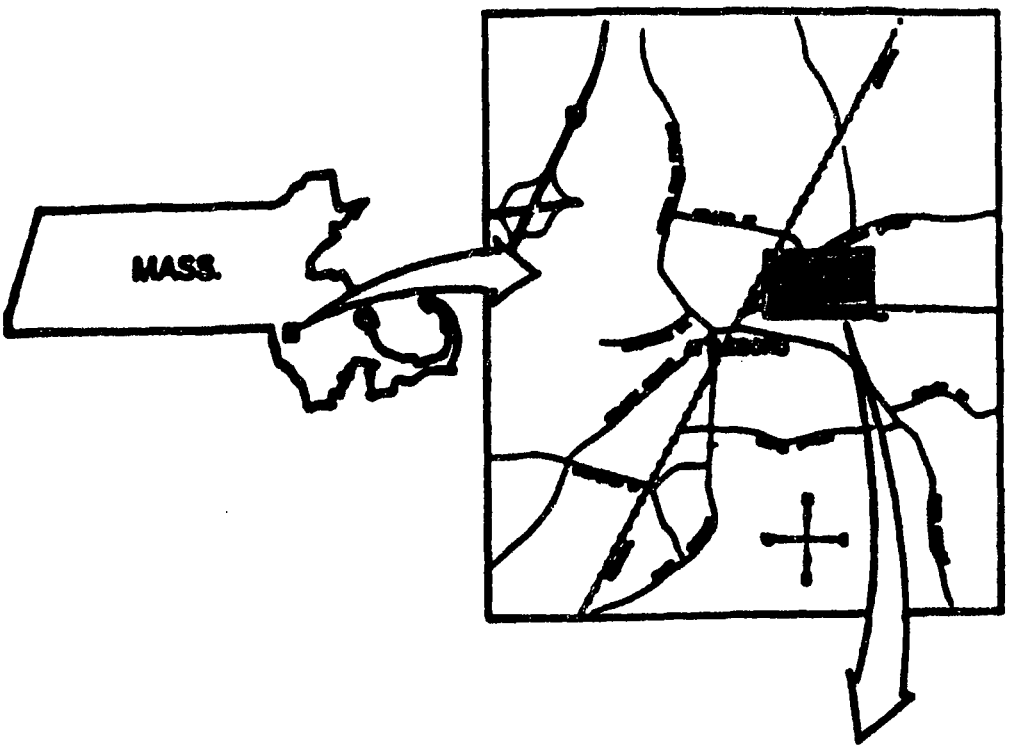
Of the 190 samples only one was identified in excess of the criteria. Three grid cells (900 m^2) were found to have all samples less than the criteria. The remaining one grid cell area (100 m^2), was identified as having a sample (42 pCi g^{-1}) in excess of the criteria. However this grid cell resulted in an average of 15 pCi g^{-1}.. Since this sample was the only sample with activity concentrations in excess of the criteria and located at 4.6 meters (15 feet), an additional 5 sub surface soil samples locations from a depth of 4.6 meters (15 feet) to a depth of 7.62 meters (25 feet) in 0.61 meter increments were obtained. All additional samples were below the criteria. (Figure 16).

The total affected area described as the Airline Debris Hill resulted in all grid cell averages being below the criteria. The only subsurface soil sample location which had activity concentration in excess of the criteria was the result of a single sample of only 42 pCi g-1 at a depth of 4.6 meters (15 feet). Data and large format ("D" size) drawings are provided within Appendix E. The bore hole data are included in Attachment 1.

3.0 Unaffected Area Survey Results

Unaffected open land area surveys were conducted in a manner similar to that described for the affected areas, except that grids were not established (Figure 3). The unaffected area 100% walk over scans resulted in no anomalies. The random (30) subsurface soil sampling program resulted in all soil samples having concentrations below the criteria with the exception of one subsurface sample (Appendix F). The location of this one elevated soil sample was in close proximity to the "Stockade" area north of building 11 and resulted in the extension of the "Stockade" area to include the area about this sample location. The locations of the random samples (Figure 17) were referenced to the Massachusetts coordinate system and the exact coordinates are shown in Appendix F.

Figure 1
Site Plan



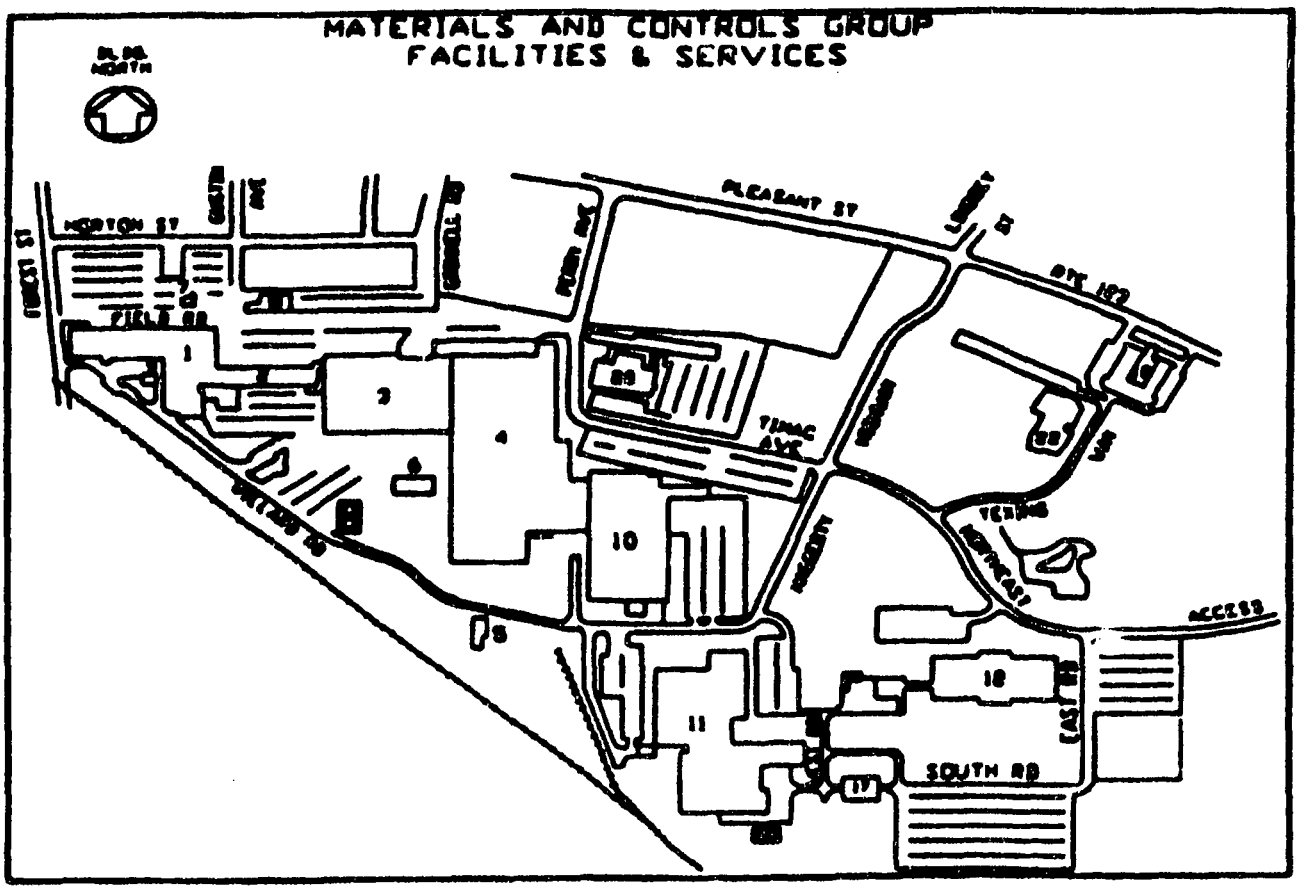


Figure 2
Affected Open Land Area Site Map

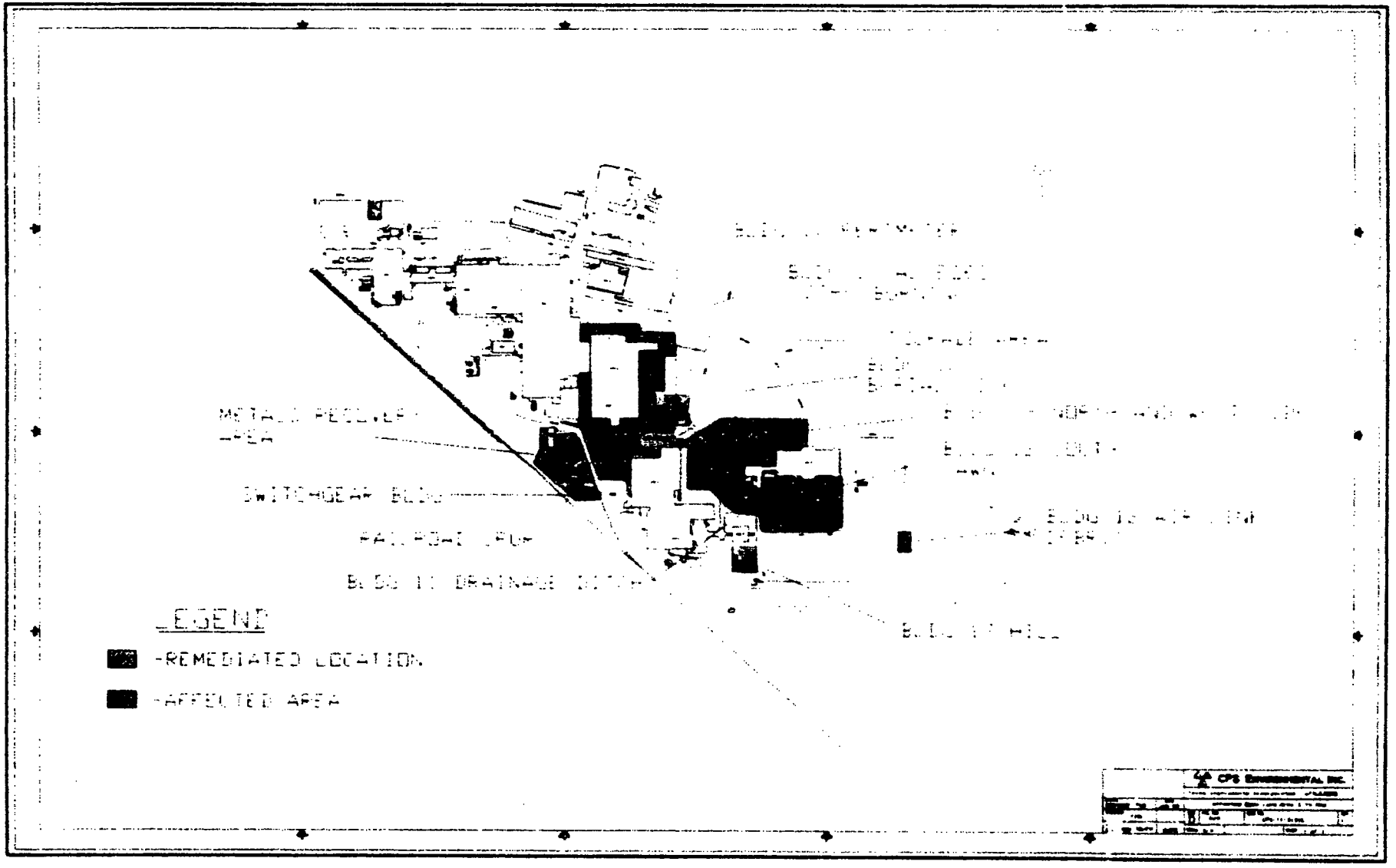


Figure 3
Unaffected and Undeveloped Open Land Area Site Map

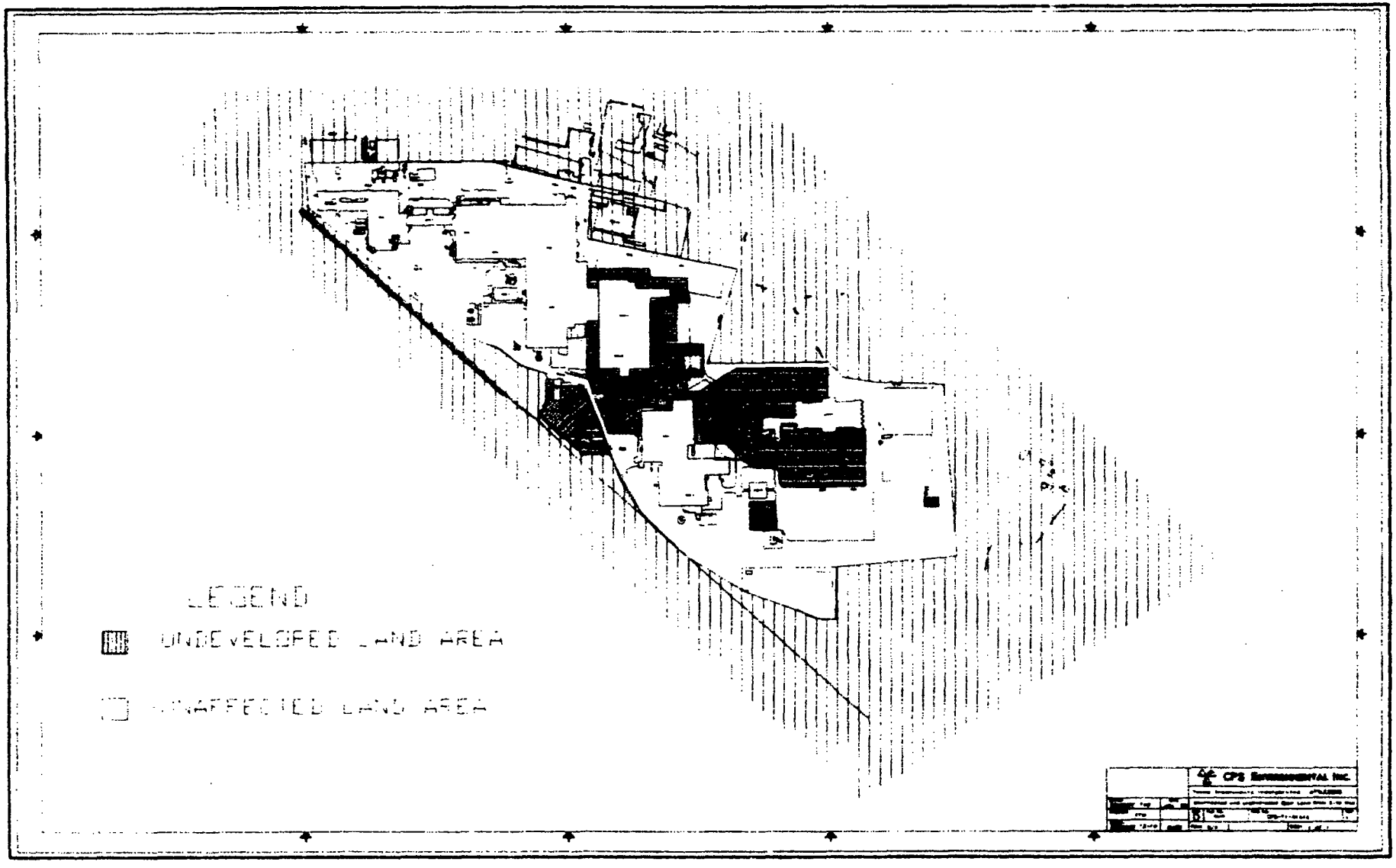


Figure 4
Stockade Area and Railroad Spur : Sub-Surface Soil Sample Locations

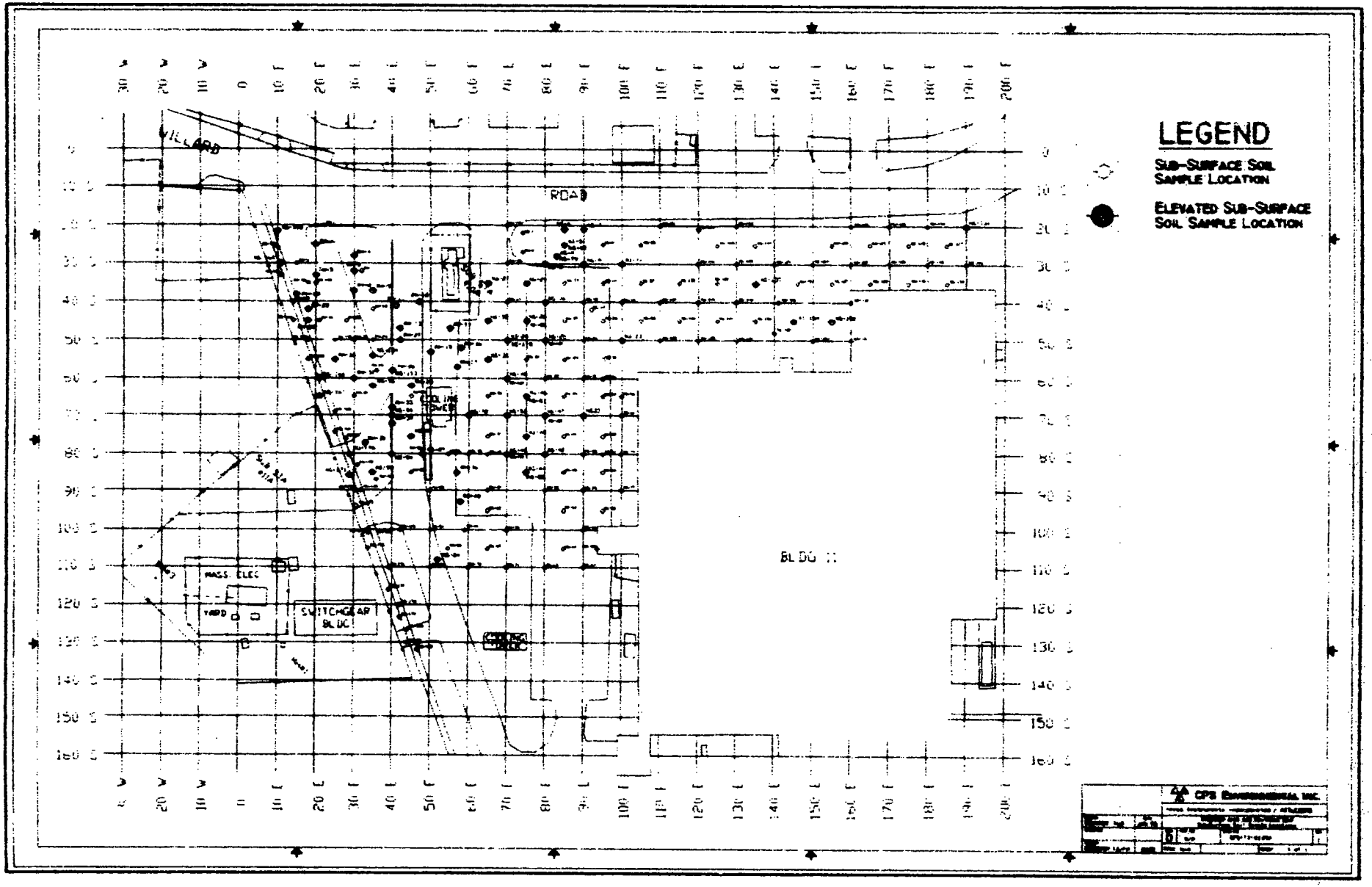


Figure 5
Stockade Area and Railroad Spur Grid Cell Averages and Maximum Depths

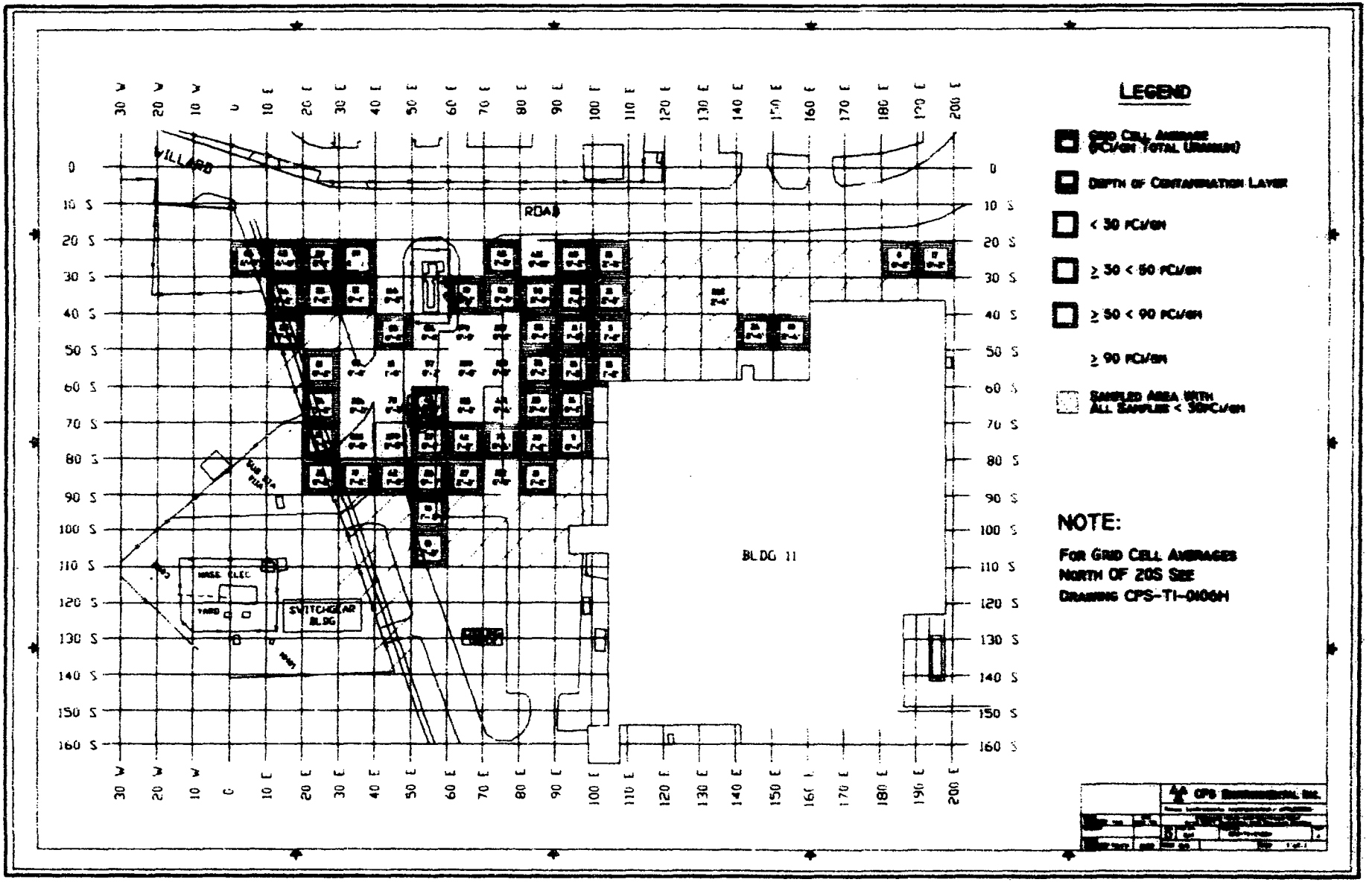


Figure 6
Building 10 Perimeter and Building 10 Alleged Zirc Burning Area : Sub-Surface Soil Sample Locations

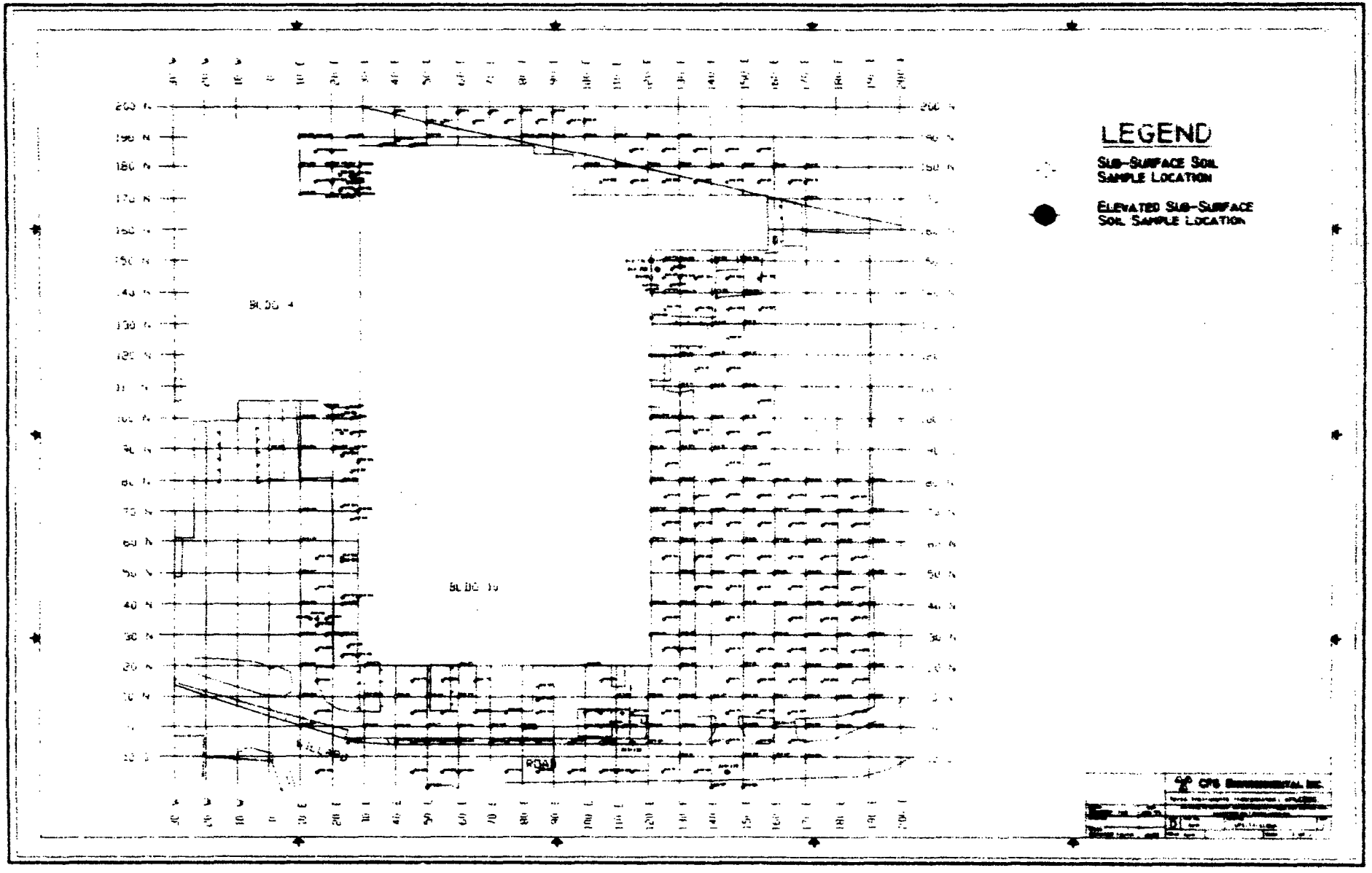


Figure 7
Building 10 Perimeter and Building 10 Alleged Zirc Burning Area Grid Cell Averages and Maximum Depths

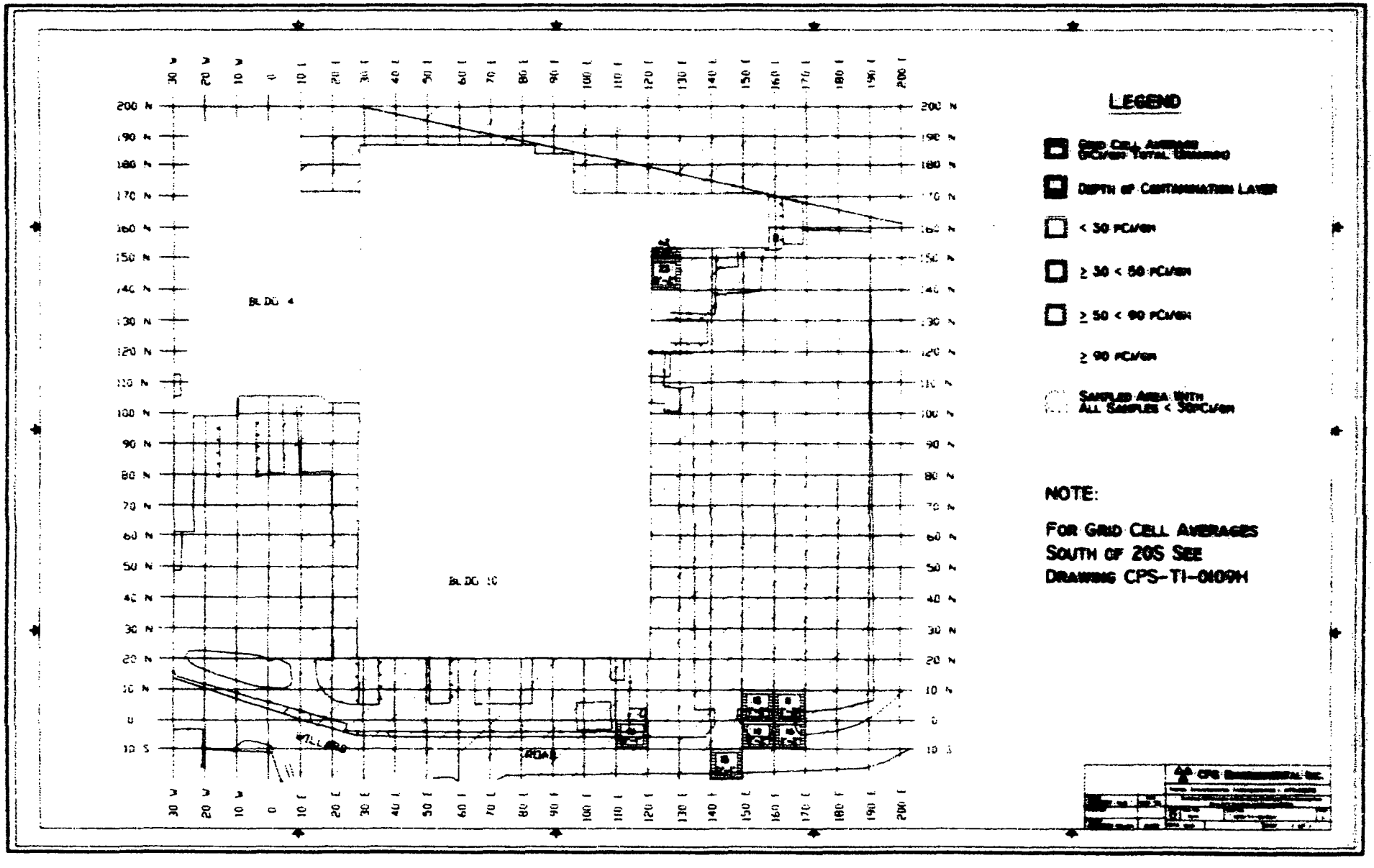


Figure 8
Building 12 South Lawn and Building 11 Drainage Ditch : Sub-Surface Soil Sample Locations

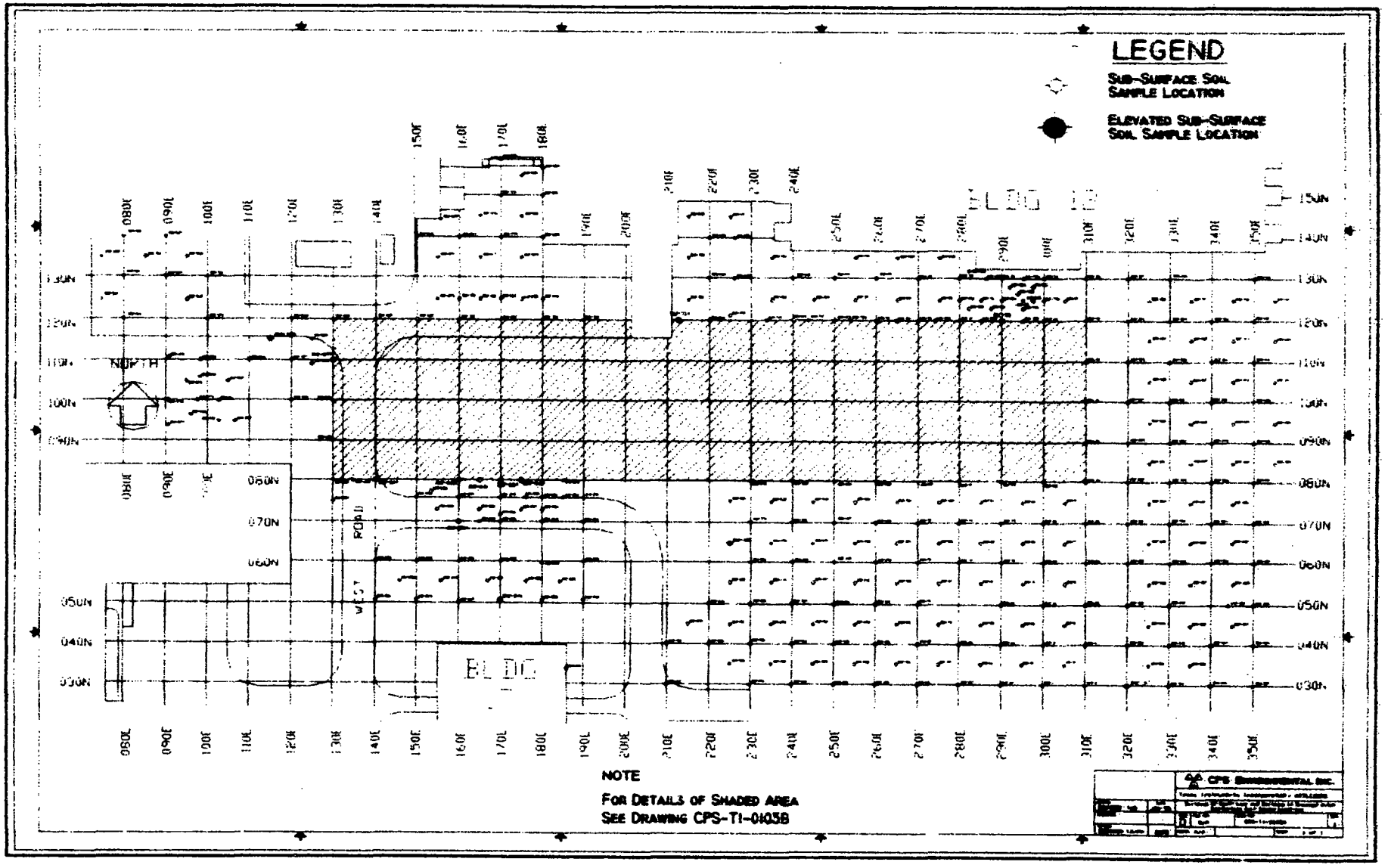


Figure 9

Building 12 South Lawn, Building 11 Drainage Ditch : Sub-Surface Soil Sample Locations in Concentrated Sampling Area

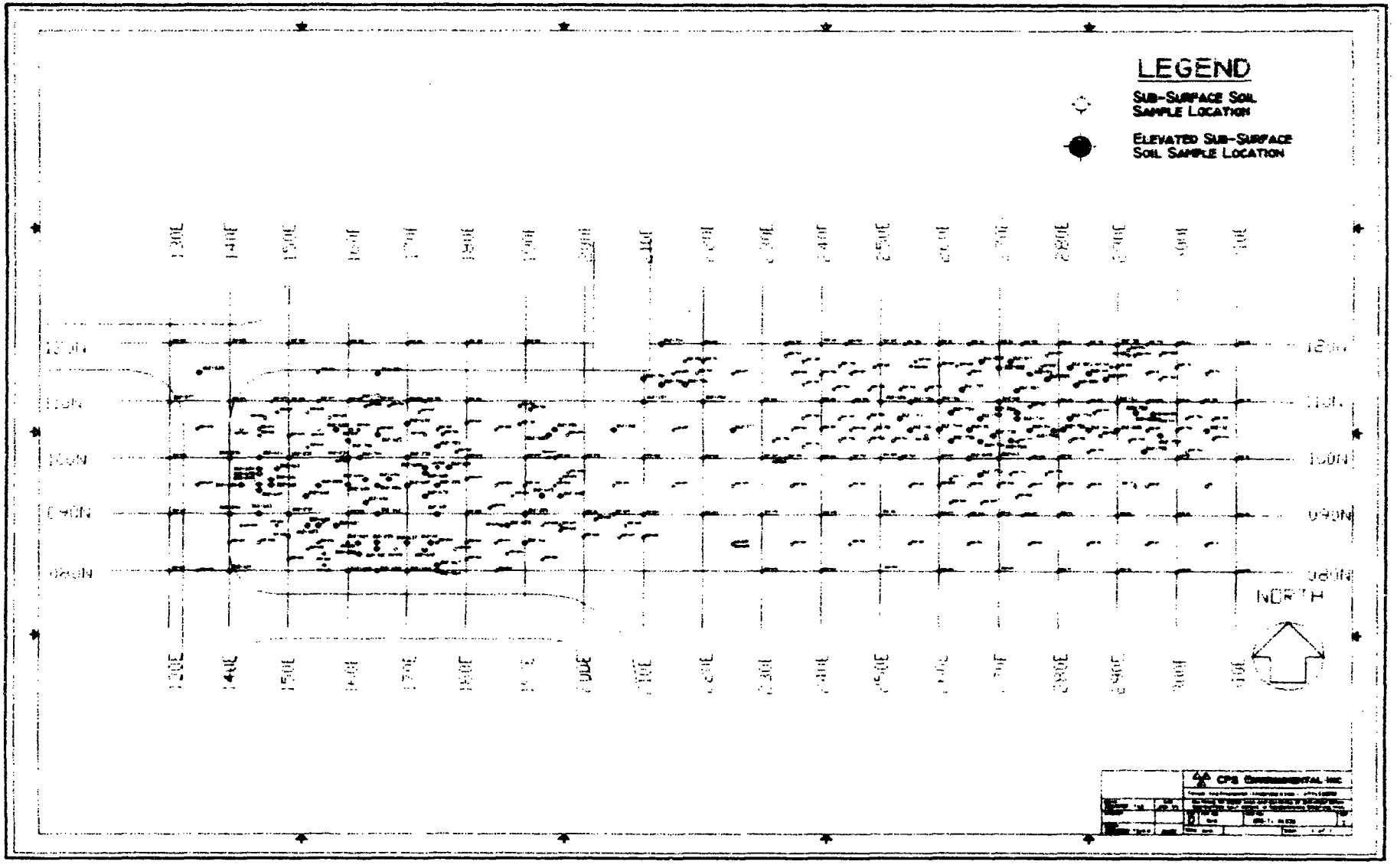


Figure 10
Building 12 Grid Cell Averages and Maximum Depths

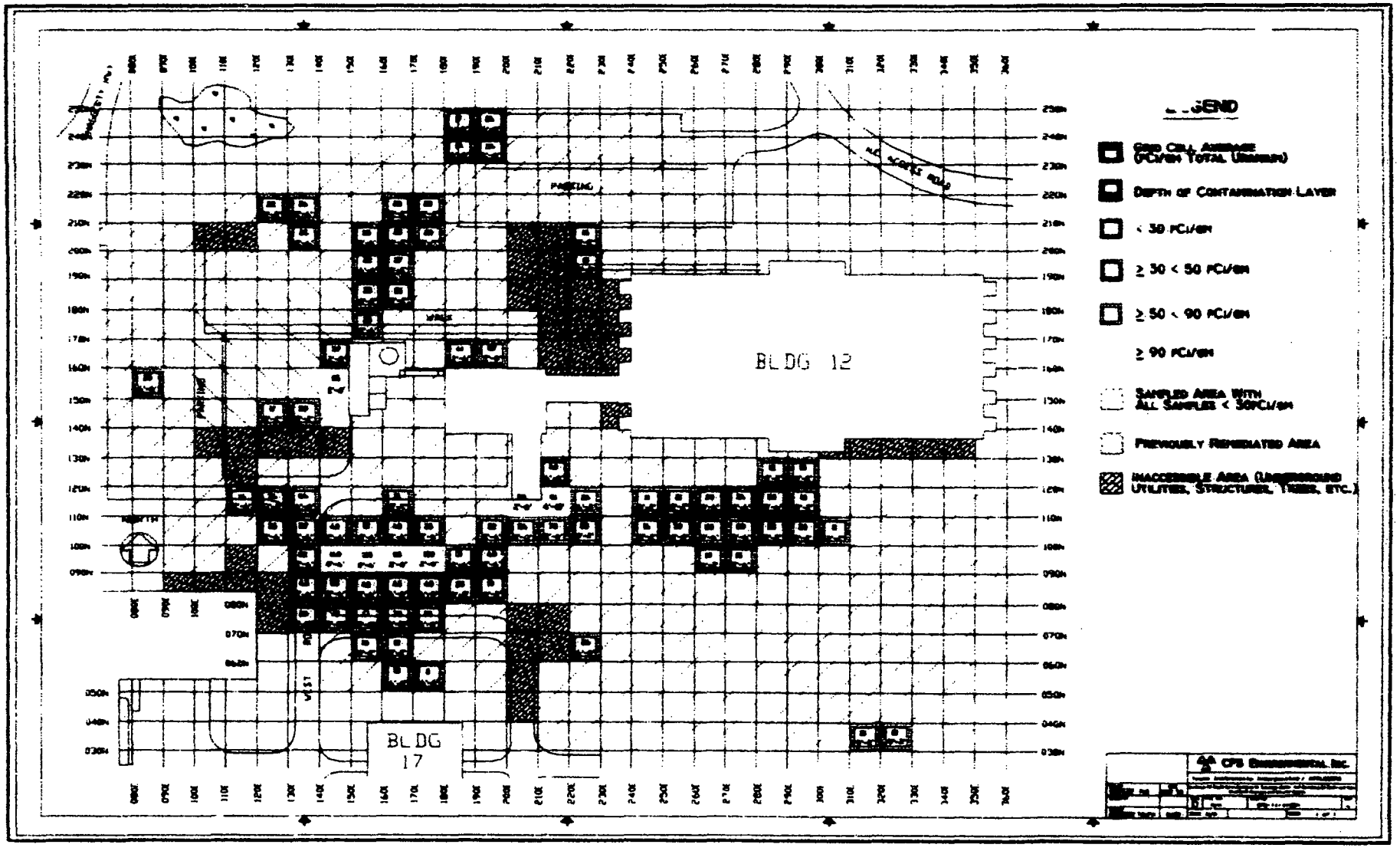


Figure 11
Building 12 North and West Side : Sub-Surface Soil Sample Locations

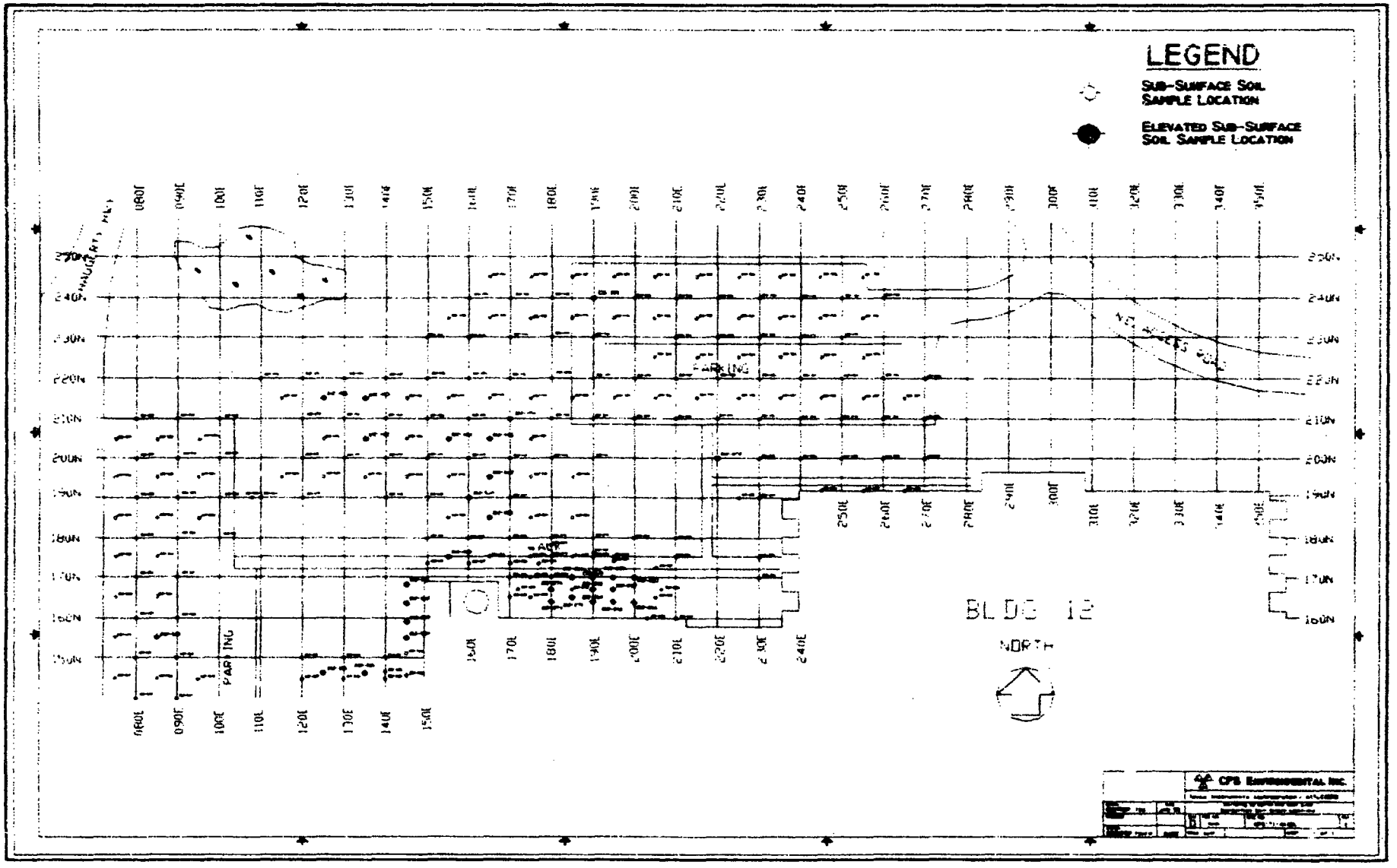


Figure 12
Building 12 Grid Cell Averages and Maximum Depths

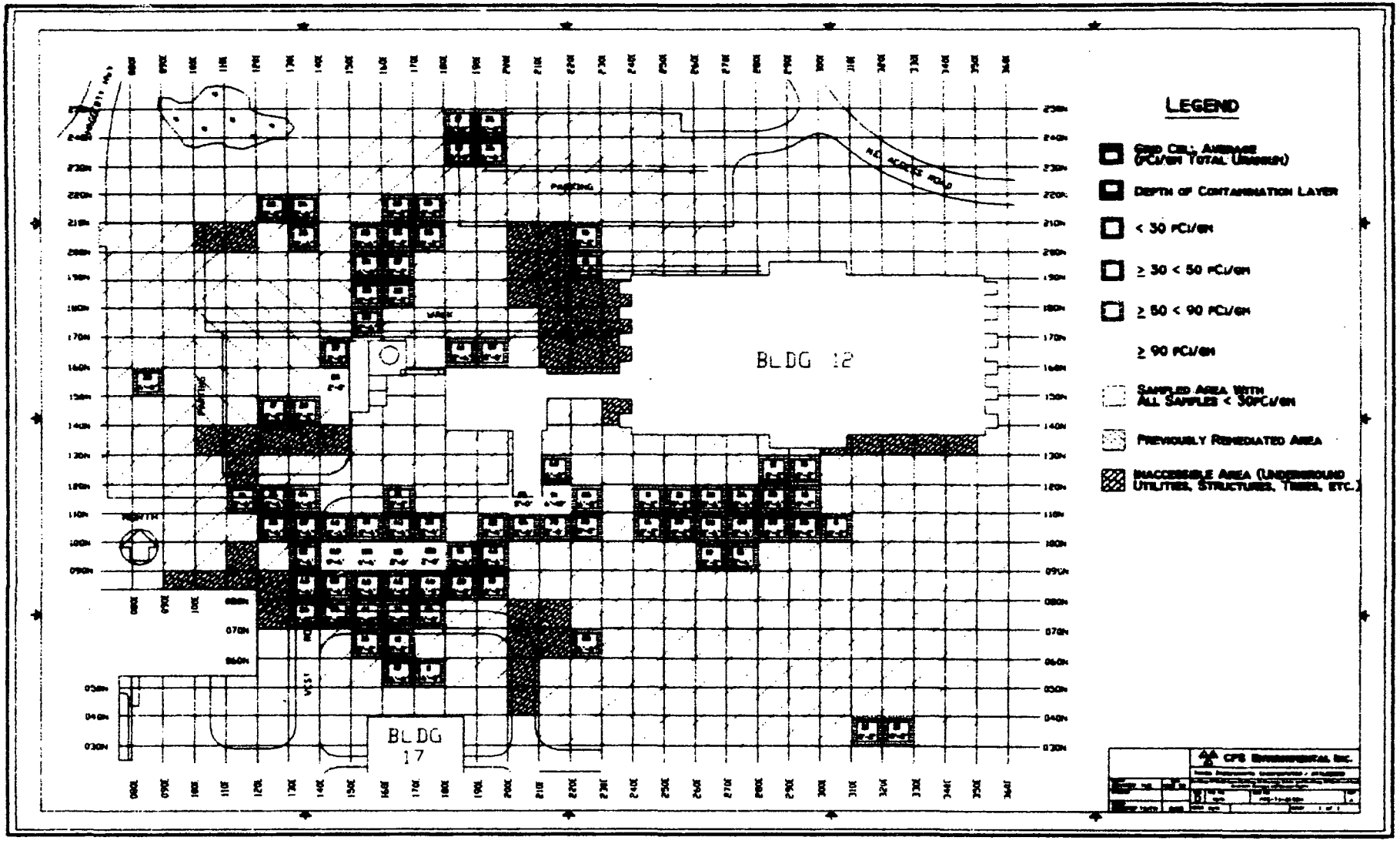


Figure 13
Hill South of Building 17 : Sub-Surface/Surface Soil Sample Locations

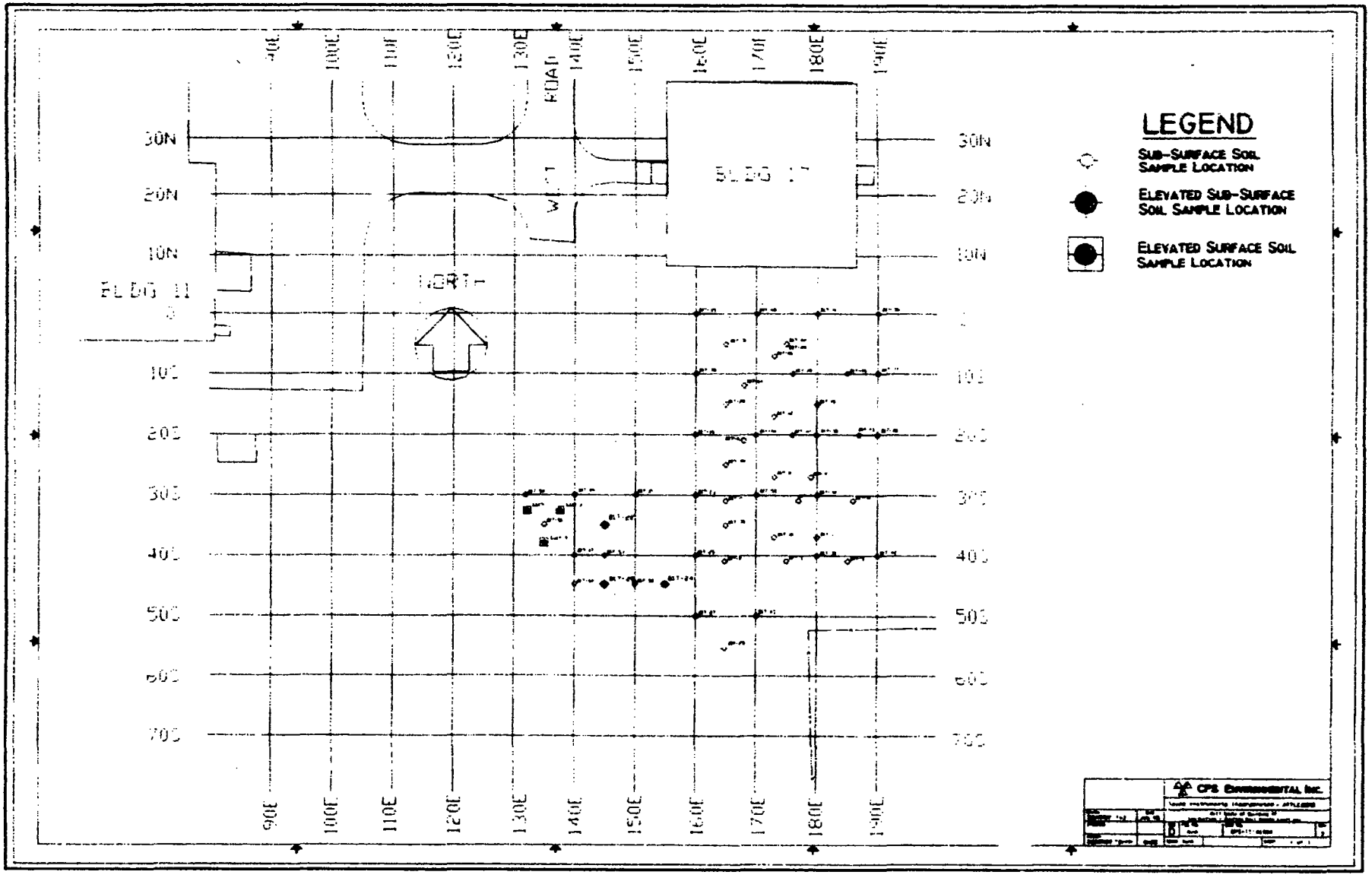


Figure 14
Hill South of Building 17 Grid Cell Averages and Maximum Depths

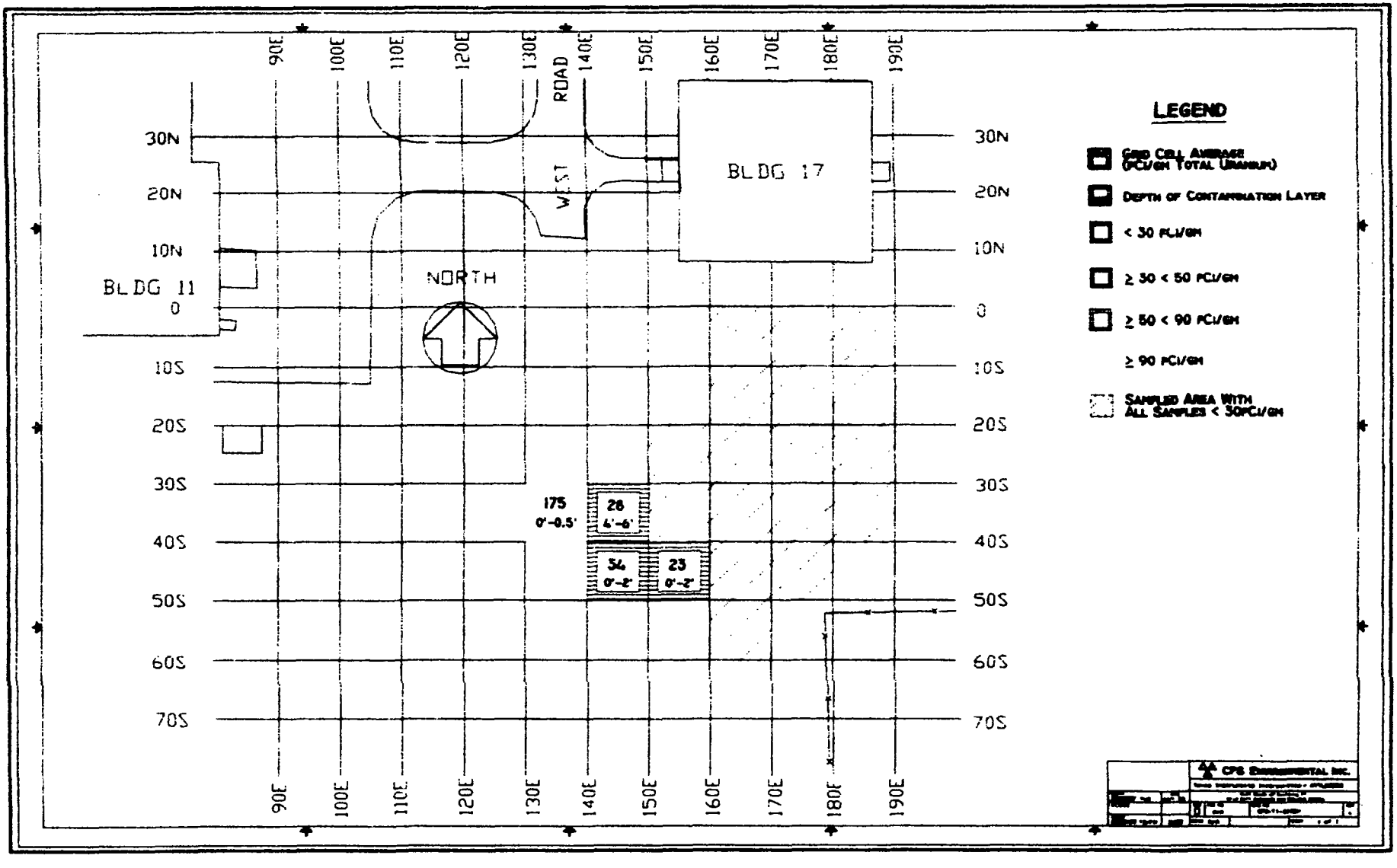


Figure 15
Building 12 Airline Debris : Sub-Surface Soil Sample Locations

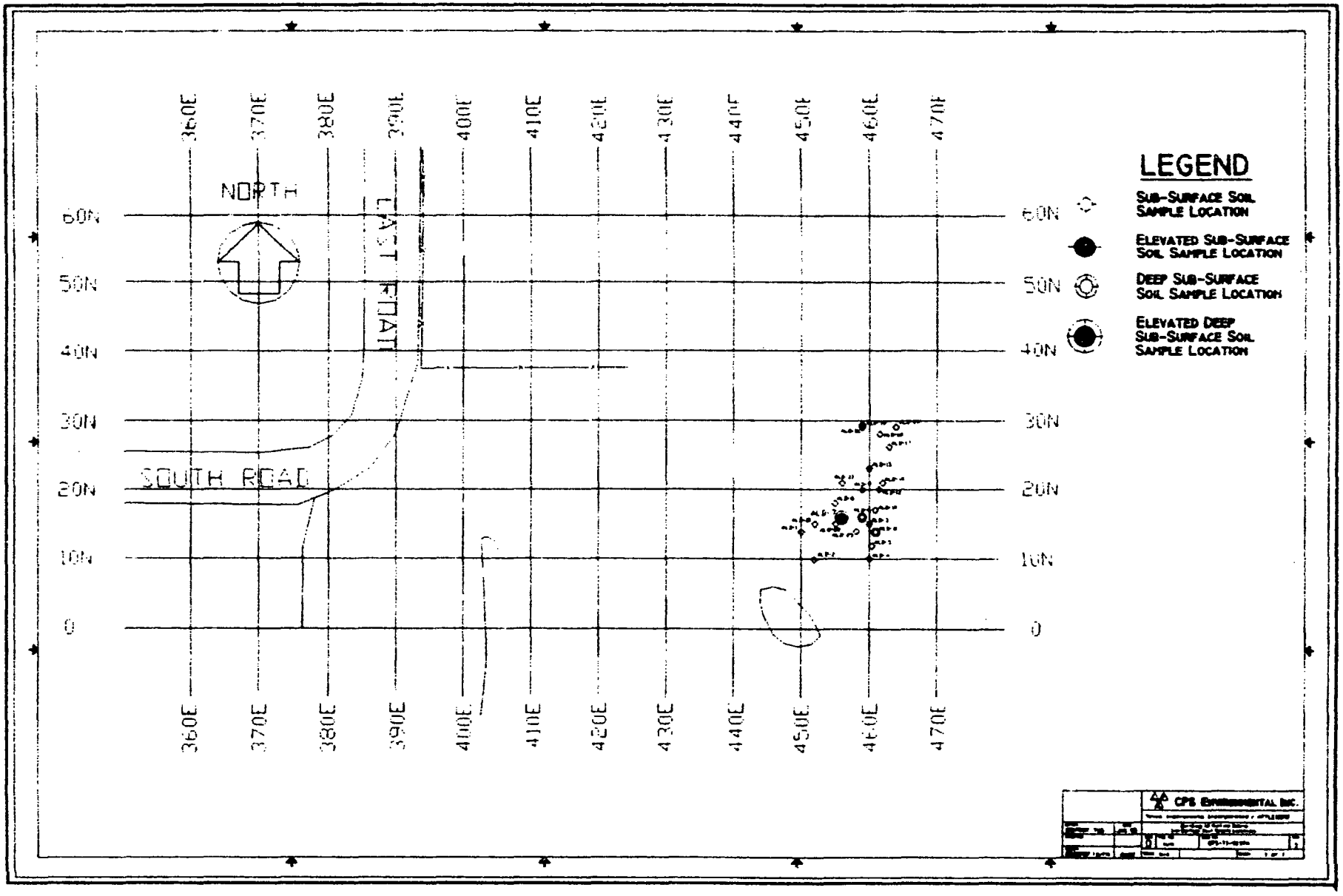


Figure 16
Building 12 Airline Debris Grid Cell Averages and Maximum Depths

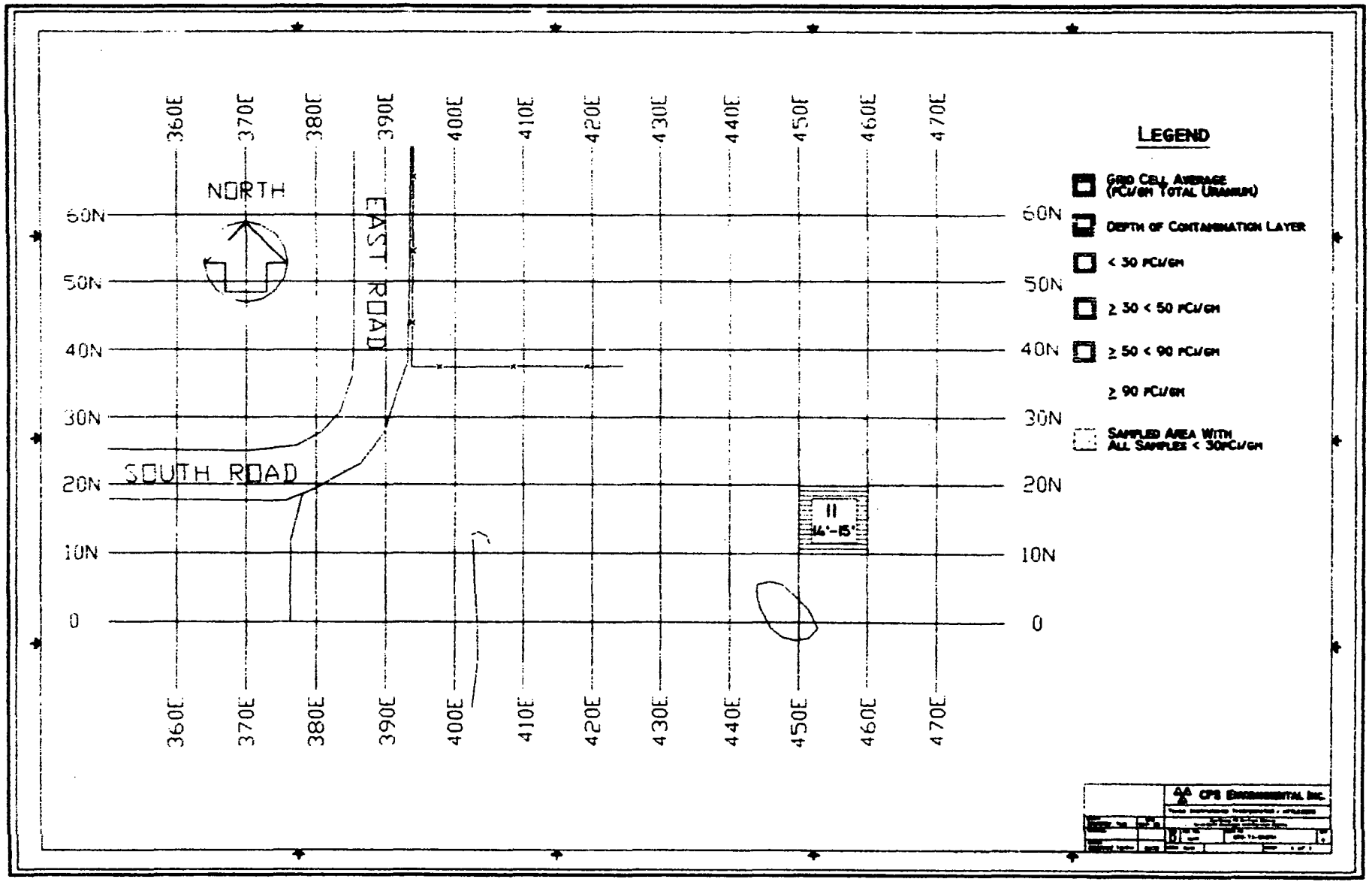
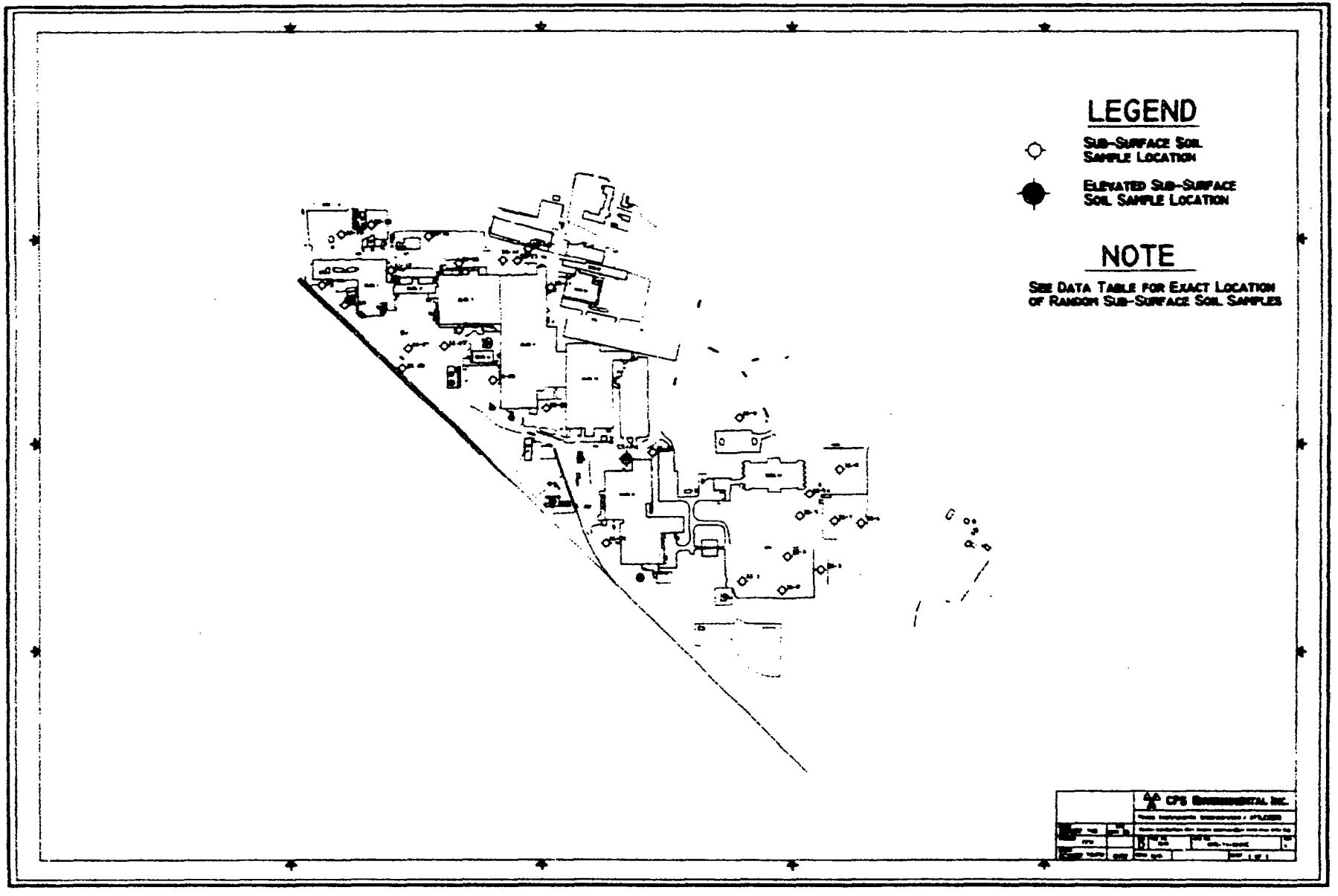


Figure 17
Open Land Area Site Map : Random Sub-Surface Soil Sample Locations



Radiological Surveys of Open Land Areas

Texas Instruments Incorporated
Attleboro, Massachusetts

Appendix A

Stockade Area and Railroad Spur

Appendix A: Stockade Area and Railroad Spur

A1 Sub-Surface Soil Sampling Data

A2 Drawing CPS-TI-0109A Sub Surface soil Sample Locations

A3 Drawing CPS-TI-0109H Grid Cell Averages and Maximum Depths

A4 Bore Hole Measurements and Static Measurements

A5 Grid Cell Averages

A6 Massachusetts Grid System Reference Coordinates

Radiological Surveys of Open Land Areas

Texas Instruments Incorporated
Attleboro, Massachusetts

Appendix A1

Stockade Area and Railroad Spur

Sub-Surface Soil Sampling Data

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0804-1362	NS-1	22 S X 74 E	0-1'	22
TI-NS-SSS-0804-1363			1'-2'	14
TI-NS-SSS-0804-1364			2'-3'	8
TI-NS-SSS-0804-1365			3'-4'	12
TI-NS-SSS-0804-1366	NS-2	27 S X 74 E	0-1'	13
TI-NS-SSS-0804-1367			1'-2'	22
TI-NS-SSS-0804-1368			2'-3'	16
TI-NS-SSS-0804-1369			3'-4'	8
TI-NS-SSS-0805-1370	NS-3	30 S X 80 E	0-1'	25
TI-NS-SSS-0805-1371			1'-2'	116
TI-NS-SSS-0805-1372			2'-3'	204
TI-NS-SSS-0805-1373			3'-4'	29
TI-NS-SSS-0805-1374	NS-4	28 S X 83 E	0-1'	110
TI-NS-SSS-0805-1375			1'-2'	66
TI-NS-SSS-0805-1376			2'-3'	138
TI-NS-SSS-0805-1377			3'-4'	237
TI-NS-SSS-0805-1378	NS-5	25 S X 85 E	0-1'	18
TI-NS-SSS-0805-1379			1'-2'	104
TI-NS-SSS-0805-1380			2'-3'	115
TI-NS-SSS-0805-1381			3'-4'	1228
TI-NS-SSS-0805-1382	NS-6	21 S X 85 E	0-1'	60
TI-NS-SSS-0805-1383			1'-2'	23
TI-NS-SSS-0805-1384			2'-3'	26
TI-NS-SSS-0805-1385			3'-4'	27
TI-NS-SSS-0805-1386	NS-7	20 S X 90 E	0-1'	113
TI-NS-SSS-0805-1387			1'-2'	35
TI-NS-SSS-0805-1388			2'-3'	47
TI-NS-SSS-0805-1389			3'-4'	9
TI-NS-SSS-0805-1390	NS-8	25 S X 95 E	0-1'	12
TI-NS-SSS-0805-1391			1'-2'	17
TI-NS-SSS-0805-1392			2'-3'	14
TI-NS-SSS-0805-1393			3'-4'	17
TI-NS-SSS-0808-1394	NS-9	30 S X 90 E	0-1'	21
TI-NS-SSS-0808-1395			1'-2'	129
TI-NS-SSS-0808-1396			2'-3'	18
TI-NS-SSS-0808-1397			3'-4'	14

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0808-1398	NS-10	35 S X 85 E	0-1'	26
TI-NS-SSS-0808-1399			1'-2'	12
TI-NS-SSS-0808-1400			2'-3'	21
TI-NS-SSS-0808-1401			3'-4'	10
TI-NS-SSS-0807-1402	NS-11	30 S X 100 E	0-1'	18
TI-NS-SSS-0807-1403			1'-2'	16
TI-NS-SSS-0807-1404			2'-3'	48
TI-NS-SSS-0807-1405			3'-4'	16
TI-NS-SSS-0808-1406	NS-12	30 S X 70 E	0-1'	14
TI-NS-SSS-0808-1407			1'-2'	15
TI-NS-SSS-0808-1408			2'-3'	10
TI-NS-SSS-0808-1409			3'-4'	12
TI-NS-SSS-0808-1410	NS-13	42 S X 92 E	0-1'	10
TI-NS-SSS-0808-1411			1'-2'	6
TI-NS-SSS-0808-1412			2'-3'	7
TI-NS-SSS-0808-1413			3'-4'	8
TI-NS-SSS-0808-1414	NS-14	35 S X 95 E	0-1'	18
TI-NS-SSS-0808-1415			1'-2'	18
TI-NS-SSS-0808-1416			2'-3'	21
TI-NS-SSS-0808-1417			3'-4'	15
TI-NS-SSS-0808-1418	NS-15	40 S X 100 E	0-1'	24
TI-NS-SSS-0808-1419			1'-2'	9
TI-NS-SSS-0808-1420			2'-3'	15
TI-NS-SSS-0808-1421			3'-4'	15
TI-NS-SSS-0808-1422	NS-16	40 S X 80 E	0-1'	95
TI-NS-SSS-0808-1423			1'-2'	9
TI-NS-SSS-0808-1424			2'-3'	13
TI-NS-SSS-0808-1425			3'-4'	5
TI-NS-SSS-0808-1426	NS-17	40 S X 70 E	0-1'	22
TI-NS-SSS-0808-1427			1'-2'	5
TI-NS-SSS-0808-1428			2'-3'	8
TI-NS-SSS-0808-1429			3'-4'	3
TI-NS-SSS-0808-1430	NS-18	40 S X 90 E	0-1'	17
TI-NS-SSS-0808-1431			1'-2'	11
TI-NS-SSS-0808-1432			2'-3'	12
TI-NS-SSS-0808 1433			3'-4'	9

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0809-1434	NS-19	20 S X 70 E	0-1'	3
TI-NS-SSS-0809-1435			1'-2'	17
TI-NS-SSS-0809-1436			2'-3'	17
TI-NS-SSS-0809-1437			3'-4'	19
TI-NS-SSS-0809-1438	NS-20	35 S X 75 E	0-1'	49
TI-NS-SSS-0809-1439			1'-2'	20
TI-NS-SSS-0809-1440			2'-3'	39
TI-NS-SSS-0809-1441			3'-4'	10
TI-NS-SSS-0809-1442	NS-21	35 S X 65 E	0-1'	33
TI-NS-SSS-0809-1443			1'-2'	19
TI-NS-SSS-0809-1444			2'-3'	16
TI-NS-SSS-0809-1445			3'-4'	11
TI-NS-SSS-0809-1446	NS-22	45 S X 75E	0-1'	186
TI-NS-SSS-0809-1447			1'-2'	1310
TI-NS-SSS-0809-1448			2'-3'	53
TI-NS-SSS-0809-1449			3'-4'	11
TI-NS-SSS-0809-1450	NS-23	50 S X 100 E	0-1'	17
TI-NS-SSS-0809-1451			1'-2'	33
TI-NS-SSS-0809-1452			2'-3'	16
TI-NS-SSS-0809-1453			3'-4'	11
TI-NS-SSS-0809-1454	NS-24	50 S X 70 E	0-1'	387
TI-NS-SSS-0809-1455			1'-2'	44
TI-NS-SSS-0809-1456			2'-3'	33
TI-NS-SSS-0809-1457			3'-4'	10
TI-NS-SSS-0809-1458	NS-25	50 S X 80 E	0-1'	151
TI-NS-SSS-0809-1459			1'-2'	75
TI-NS-SSS-0809-1460			2'-3'	31
TI-NS-SSS-0809-1461			3'-4'	8
TI-NS-SSS-0809-1462	NS-26	50 S X 90 E	0-1'	10
TI-NS-SSS-0809-1463			1'-2'	7
TI-NS-SSS-0809-1464			2'-3'	6
TI-NS-SSS-0809-1465			3'-4'	8
TI-NS-SSS-0811-1466	NS-27	45 S X 85 E	0-1'	5
TI-NS-SSS-0810-1467			1'-2'	10
TI-NS-SSS-0811-1468			2'-3'	10
TI-NS-SSS-0810-1469			3'-4'	10

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0811-1470	NS-28	45 S X 95 E	0-1'	6
TI-NS-SSS-0810-1471			1'-2'	8
TI-NS-SSS-0811-1472			2'-3'	15
TI-NS-SSS-0810-1473			3'-4'	15
TI-NS-SSS-0811-1474	NS-29	55 S X 85 E	0-1'	9
TI-NS-SSS-0810-1475			1'-2'	11
TI-NS-SSS-0810-1476			2'-3'	11
			3'-4'	R
TI-NS-SSS-0811-1477	NS-30	55 S X 95 E	0-1'	11
TI-NS-SSS-0810-1478			1'-2'	26
TI-NS-SSS-0810-1479			2'-3'	21
TI-NS-SSS-0811-1480			3'-4'	8
TI-NS-SSS-0811-1481	NS-31	60 S X 90 E	0-1'	16
TI-NS-SSS-0810-1482			1'-2'	7
TI-NS-SSS-0810-1483			2'-3'	12
TI-NS-SSS-0811-1484			3'-4'	9
TI-NS-SSS-0812-1485	NS-32	90 S X 80 E	0-1'	15
TI-NS-SSS-0812-1486			1'-2'	10
TI-NS-SSS-0812-1487			2'-3'	22
TI-NS-SSS-0812-1488			3'-4'	6
TI-NS-SSS-0812-1489	NS-33	70 S X 90 E	0-1'	31
TI-NS-SSS-0812-1490			1'-2'	16
TI-NS-SSS-0812-1491			2'-3'	14
TI-NS-SSS-0812-1492			3'-4'	18
TI-NS-SSS-0812-1493	NS-34	55 S X 75 E	0-1'	18
TI-NS-SSS-0812-1494			1'-2'	18
TI-NS-SSS-0812-1495			2'-3'	16
TI-NS-SSS-0812-1496			3'-4'	22
TI-NS-SSS-0817-1497	NS-35	45 S X 65 E	0-1'	128
TI-NS-SSS-0817-1498			1'-2'	8
TI-NS-SSS-0817-1499			2'-3'	13
TI-NS-SSS-0817-1500			3'-4'	8
TI-NS-SSS-0817-3100	NS-36	55 S X 65 E	0-1'	47
TI-NS-SSS-0817-3101			1'-2'	34
			2'-3'	R
TI-NS-SSS-0817-3102			3'-4'	30

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0817 3103	NS-37	75 S X 65 E	0-1'	12
TI-NS-SSS-0817-3104			1'-2'	9
TI-NS-SSS-0817-3105			2'-3'	8
TI-NS-SSS-0817-3106			3'-4'	17
TI-NS-SSS-0817-3107	NS-38	65 S X 65 E	0-1'	21
TI-NS-SSS-0817-3108			1'-2'	9
TI-NS-SSS-0817-3109			2'-3'	23
TI-NS-SSS-0817-3110			3'-4'	3
TI-NS-SSS-0822-3111	NS-39	80 S X 65 E	0-1'	9
TI-NS-SSS-0822-3112			1'-2'	7
TI-NS-SSS-0822-3113			2'-3'	8
TI-NS-SSS-0822-3114			3'-4'	8
TI-NS-SSS-0822-3115	NS-40	80 S X 70 E	0-1'	63
TI-NS-SSS			1'-2'	49
TI-NS-SSS-0822-3117			2'-3'	78
TI-NS-SSS-0822-3118			3'-4'	55
TI-NS-SSS-0822-3119	NS-41	75 S X 85 E	0-1'	18
TI-NS-SSS-0822-3120			1'-2'	19
TI-NS-SSS-0822-3121			2'-3'	9
TI-NS-SSS-0822-3125			3'-4'	4
TI-NS-SSS-0822-3122	NS-42	80 S X 80 E	0-1'	36
TI-NS-SSS			1'-2'	79
TI-NS-SSS-0822-3124			2'-3'	43
TI-NS-SSS-0822-3123			3'-4'	22
TI-NS-SSS-0822-3126	NS-43	65 S X 85 E	0-1'	6
TI-NS-SSS-0822-3127			1'-2'	5
TI-NS-SSS-0822-3128			2'-3'	10
TI-NS-SSS-0822-3129			3'-4'	8
TI-NS-SSS-0822-3130	NS-44	85 S X 75 E	0-1'	57
TI-NS-SSS-0822-3131			1'-2'	125
TI-NS-SSS-0822-3132			2'-3'	208
TI-NS-SSS-0822-3133			3'-4'	5
	NS-45	75 S X 75 E	0-1'	48
			1'-2'	45
			2'-3'	R
			3'-4'	R

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0823-3135	NS-46	65 S X 75 E	0-1'	15
TI-NS-SSS			1'-2'	2878
TI-NS-SSS-0823-3136			2'-3'	722
TI-NS-SSS-0823-3137			3'-4'	277
TI-NS-SSS	NS-47	70 S X 80 E	0-1'	40
TI-NS-SSS-0823-3187			1'-2'	29
TI-NS-SSS-0823-3138			2'-3'	R
TI-NS-SSS-0823-3139			3'-4'	75
TI-NS-SSS-0823-3140	NS-48	85 S X 85 E	0-1'	8
TI-NS-SSS-0823-3141			1'-2'	18
TI-NS-SSS-0824-3142			2'-3'	2
TI-NS-SSS0824-3143			3'-4'	11
TI-NS-SSS-0824-3144	NS-49	60 S X 70 E	0-1'	282
TI-NS-SSS-0823-3185			1'-2'	225
TI-NS-SSS-0823-3186			2'-3'	102
TI-NS-SSS-0824-3145			3'-4'	28
TI-NS-SSS-0902-3146	NS-50	80 S X 90 E	0-1'	8
TI-NS-SSS-0902-3147			1'-2'	13
TI-NS-SSS			2'-3'	8
TI-NS-SSS-0902-3148			3'-4'	4
TI-NS-SSS	NS-51	70 S X 70 E	0-1'	44
TI-NS-SSS			1'-2'	162
			2'-3'	R
			3'-4'	R
TI-NS-SSS-0823-3149	NS-52	60 S X 80 E	0-1'	14
TI-NS-SSS-0823-3150			1'-2'	10
TI-NS-SSS-0823-3151			2'-3'	14
TI-NS-SSS-0823-3152			3'-4'	16
TI-NS-SSS-0824-3153	NS-53	65 S X 95 E	0-1'	18
TI-NS-SSS-0824-3154			1'-2'	7
TI-NS-SSS-0824-3155			2'-3'	17
TI-NS-SSS-0824-3156			3'-4'	15
TI-NS-SSS-0824-3157	NS-54	60 S X 95 E	0-1'	17
TI-NS-SSS-0824-3158			1'-2'	18
TI-NS-SSS-0824-3159			2'-3'	18
TI-NS-SSS-0824-3160			3'-4'	6

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0824-3161	NS-55	90 S X 90 E	0-1'	11
TI-NS-SSS-0824-3162			1'-2'	8
TI-NS-SSS-0824-3163			2'-3'	12
TI-NS-SSS-0824-3164			3'-4'	13
TI-NS-SSS-0824-3165	NS-56	65 S X 100 E	0-1'	12
TI-NS-SSS-0824-3166			1'-2'	6
TI-NS-SSS-0824-3167			2'-3'	16
TI-NS-SSS-0824-3168			3'-4'	5
TI-NS-SSS-0824-3169	NS-57	80 S X 95 E	0-1'	12
TI-NS-SSS-0824-3170			1'-2'	R
TI-NS-SSS-0824-3171			2'-3'	14
TI-NS-SSS-0824-3172			3'-4'	11
TI-NS-SSS-0824-3173	NS - 58	75 S X 95 E	0-1'	6
TI-NS-SSS-0824-3174			1'-2'	11
TI-NS-SSS-0824-3175			2'-3'	16
TI-NS-SSS-0824-3176			3'-4'	16
TI-NS-SSS-0824-3177	NS-59	95 S X 95 E	0-1'	11
TI-NS-SSS-0824-3178			1'-2'	9
TI-NS-SSS-0824-3179			2'-3'	8
TI-NS-SSS-0824-3180			3'-4'	18
TI-NS-SSS-0824-3181	NS-60	85 S X 95 E	0-1'	16
TI-NS-SSS-0824-3182			1'-2'	9
TI-NS-SSS-0824-3183			2'-3'	9
TI-NS-SSS-0824-3184			3'-4'	21
TI-NS-SSS-0824-3188	NS-61	70 S X 100 E	0-1'	10
TI-NS-SSS-0824-3189			1'-2'	12
TI-NS-SSS-0824-3190			2'-3'	18
TI-NS-SSS-0824-3191			3'-4'	12
TI-NS-SSS-0825-3192	NS-62	95 S X 85 E	0-1'	17
TI-NS-SSS-0825-3193			1'-2'	14
			2'-3'	R
TI-NS-SSS-0825-3194			3'-4'	6
TI-NS-SSS-0825-3195	NS-63	110 S X 80 E	0-1'	7
TI-NS-SSS-0825-3196			1'-2'	8
TI-NS-SSS-0825-3197			2'-3'	11
TI-NS-SSS-0825-3198			3'-4'	15

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0825-3199	NS-64	105 S X 85 E	0-1'	11
TI-NS-SSS-0825-3200			1'-2'	14
TI-NS-SSS-0825-3201			2'-3'	11
TI-NS-SSS--0825-3202			3'-4'	7
TI-NS-SSS-0825-3203	NS-65	105 S X 95 E	0-1'	11
TI-NS-SSS-0825-3204			1'-2'	9
TI-NS-SSS-0825-3205			2'-3'	14
TI-NS-SSS-0825-3206			3'-4'	9
TI-NS-SSS-0825-3207	NS-66	100 S X 90 E	0-1'	10
TI-NS-SSS-0825-3208			1'-2'	12
			2'-3'	R
TI-NS-SSS-0825-3209			3'-4'	12
TI-NS-SSS-0825-3210	NS-67	110 S X 90 E	0-1'	10
TI-NS-SSS-0825-3211			1'-2'	8
TI-NS-SSS-0825-3212			2'-3'	11
TI-NS-SSS-0825-3213			3'-4'	3
TI-NS-SSS-0825-3214	NS-68	95 S X 65 E	0-1'	15
TI-NS-SSS-0825-3215			1'-2'	15
TI-NS-SSS-0825-3216			2'-3'	12
TI-NS-SSS-0825-3217			3'-4'	6
TI-NS-SSS-0825-3218	NS-69	105 S X 65 E	0-1'	13
TI-NS-SSS-0825-3219			1'-2'	10
TI-NS-SSS-0825-3220			2'-3'	10
TI-NS-SSS-0825-3221			3'-4'	3
TI-NS-SSS-0829-3222	NS - 70	100 S X 70 E	0-1'	14
TI-NS-SSS-0829-3223			1'-2'	7
TI-NS-SSS-0829-3224			2'-3'	7
			3'-4'	R
TI-NS-SSS-0829-3225	NS-71	110 S X 70 E	0-1'	13
TI-NS-SSS-0829-3226			1'-2'	6
TI-NS-SSS-0829-3227			2'-3'	14
TI-NS-SSS-0829-3228			3'-4'	8
TI-NS-SSS-0829-3229	NS - 72	110 S X 60 E	0-1'	12
TI-NS-SSS-0829-3230			1'-2'	19
TI-NS-SSS-0829-3231			2'-3'	14
TI-NS-SSS-0829-3232			3'-4'	12

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0902-3236	NS-74	80 S X 100E	0-1'	3
TI-NS-SSS-0902-3237			1'-2'	18
TI-NS-SSS-0902-3238			2'-3'	9
TI-NS-SSS-0902-3239			3'-4'	10
TI-NS-SS-0902-3240	NS - 75	80 S X 60 E	0-1'	21
TIONS-SSS-0902-3241			1'-2'	9
TI-NS-SSS-0902-3242			2'-3'	7
TI-NS-SSS-0902-3243			3'-4'	19
TI-NS-SSS-0902-3244	NS-76	80 S X 55 E	0-1'	15
TI-NS-SSS-0902-3245			1'-2'	19
TI-NS-SSS-0902-3246			2'-3'	18
TI-NS-SSS-0902-3247			3'-4'	8
TI-NS-SSS-0902-3248	NS-77	90 S X 100 E	0-1'	11
TI-NS-SSS-0902-3249			1'-2'	17
TI-NS-SSS-0902-3250			2'-3'	4
TI-NS-SSS-0902-3251			3'-4'	11
TI-NS-SSS	NS-78	70 S X 60 E	0-1'	44
TI-NS-SSS-0902-3252			1'-2'	32
TI-NS-SSS-0902-3253			2'-3'	26
TI-NS-SSS-0902-3254			3'-4'	9
TI-NS-SSS-0915-2179	NS-79	28 S X 83 E	4'-5'	42
TI-NS-SSS-0915-2180			5-6'	20
TI-NS-SSS-0915-2181			6-7'	25
TI-NS-SSS-0915-2182			7-8'	62
TI-NS-SSS-0916-2183			8-9'	26
TI-NS-SSS-0916-2184			9-10'	18
TI-NS-SSS-0915-2185	NS-80	25 S X 85 E	4'-5'	799
TI-NS-SSS-091502186			5-6'	26
TI-NS-SSS-0915-2187			6-7'	26
TI-NS-SSS-0915-2188			7-8'	51
TI-NS-SSS-0916-2189			8-9'	263
TI-NS-SSS-0916-2190			9-10'	59
TI-NS-SSS-0915-2191	NS-81	65S X 75 E	4'-5'	72
TI-NS-SSS-0915-2192			5-6'	6
TI-NS-SSS-0915-2193			6-7'	8
TI-NS-SSS-0915-2194			7-8'	5

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0915-2195	NS-82	85 S X 75 E	4'-5'	261
TI-NS-SSS-0915-2196			5-6'	10
TI-NS-SSS-0915-2197			6-7'	13
TI-NS-SSS-0915-2198			7-8'	9
TI-NS-SSS-0928-2199	NS-83	90 S X 50 E	0-1	21
TI-NS-SSS-0928-2200			1-2'	8
TI-NS-SSS-0928-2201			2-3'	10
TI-NS-SSS-0928-2202			3-4'	8
TI-NS-SSS-0928-2203	NS-84	108 S X 52E	0-1	7
TI-NS-SSS-0928-2204			1-2'	14
TI-NS-SSS-0928-2205			2-3'	43
TI-NS-SSS-0928-2206			3-4'	6
TI-NS-SSS-0928-2207			4-5'	4
TI-NS-SSS-0928-2208			5-6'	6
	NS-85	85 S X 45 E	0-1	R
			1-2'	R
TI-NS-SSS-0928-2209			2-3'	11
TI-NS-SSS-0928-2210			3-4'	6
			4-5'	R
			5-6'	R
TI-NS-SSS-0928-2211	NS-86	100 S X 40 E	0-1	6
TI-NS-SSS-0928-2212			1-2'	17
TI-NS-SSS-0928-2213			2-3'	10
TI-NS-SSS-0928-2214			3-4'	8
TI-NS-SSS-0928-2115			4-5'	20
TI-NS-SSS-0928-2116			5-6'	15
TI-NS-SSS-0928-2117	NS-87	80 S X 48 E	0-1'	35
TI-NS-SSS-0928-2118			1-2'	88
TI-NS-SSS-0928-2119			2-3'	17
			3-4'	R
			4-5'	R
			5-6'	R
TI-NS-SSS-0928-2220	NS-88	65 S X 45 E	0-1'	16
			1-2'	R
			2-3'	R
			3-4'	R
			4-5'	R
			5-6'	R

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0928-2221	NS-89	105 S X 55 E	0-1'	11
TI-NS-SSS-0928-2222			1-2'	15
			2-3'	R
			3-4'	R
TI-NS-SSS-0928-2223			4-5'	13
TI-NS-SSS-0928-2224			5-6'	14
TI-NS-SSS-0928-2225	NS-90	70 S X 40 E	0-1'	100
TI-NS-SSS-0928-2226			1-2'	288
TI-NS-SSS-0928-2227			2-3'	711
TI-NS-SSS-0928-2228	NS-91	100 S X 50E	0-1'	10
TI-NS-SSS-0928-2229			1-2'	12
TI-NS-SSS-0928-2230			2-3'	6
TI-NS-SSS-0928-2231			3-4'	14
TI-NS-SSS-0928-2232			4-5'	12
TI-NS-SSS-0928-2233			5-6'	14
TI-NS-SSS-0928-2234	NS-92	75 S X 45 E	0-1'	30
TI-NS-SSS-0928-2235			1-2'	37
TI-NS-SSS-0928-2236			2-3'	168
TI-NS-SSS-0928-2237			3-4'	132
TI-NS-SSS-0928-2238			4-5'	125
TI-NS-SSS-0928-2239			5-6'	9
TI-NS-SSS-0929-2240	NS-93	25 S X 105 E	0-1'	10
TI-NS-SSS-0929-2241			1-2'	24
TI-NS-SSS-0929-2242			2-3'	12
			3-4'	R
TI-NS-SSS-0928-2243	NS-94	80 S X 40 E	0-1'	15
TI-NS-SSS-0928-2244			1-2'	12
TI-NS-SSS-0928-2245			2-3'	R
TI-NS-SSS-0928-2246			3-4'	35
TI-NS-SSS-0928-2247			4-5'	42
TI-NS-SSS-0929-2248	NS-95	20 S X 110E	0-1'	15
TI-NS-SSS-0929-2249			1-2'	15
TI-NS-SSS-0929-2250			2-3'	13
TI-NS-SSS-0929-2251			3-4'	12
TI-NS-SSS-0929-2252			4-5'	11
TI-NS-SSS-0929-2253			5-6'	12

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0929-2254	NS-96	62 S X 35 E	0-1'	128
TI-NS-SSS-0929-2255			1-2'	94
TI-NS-SSS-0929-2256			2-3'	57
TI-NS-SSS-0929-2257			3-4'	29
TI-NS-SSS-0929-2258			4-5'	13
TI-NS-SSS-0929-2259			5-6'	10
TI-NS-SSS-0929-2260			6-7'	8
TI-NS-SSS-0929-2261			7-8'	13
TI-NS-SSS-0929-2262	NS-97	35S X 105 E	0-1'	3
TI-NS-SSS-0929-2263			1-2'	9
TI-NS-SSS-0929-2264			2-3'	19
TI-NS-SSS-0928-2265			3-4'	9
TI-NS-SSS-0928-2266			4-5'	18
TI-NS-SSS-0929-2267			5-6'	13
TI-NS-SSS-0929-2268	NS-98	85 S X 35E	0-1'	12
TI-NS-SSS-0929-2269			1-2'	85
TI-NS-SSS-0929-2270			2-3'	25
TI-NS-SSS-0929-2271			3-4'	14
TI-NS-SSS-0929-2272			4-5'	21
TI-NS-SSS-0929-2273			5-6'	3
TI-NS-SSS-0929-2274	NS-99	45 S X 105 E	0-1'	10
TI-NS-SSS-0929-2275			1-2'	17
TI-NS-SSS--0929-2276			2-3'	6
TI-NS-SSS-0929-2277			3-4'	9
TI-NS-SSS-0929-2278			4-5'	6
TI-NS-SSS-0929-2279			5-6'	8
TI-NS-SSS 0929-2426	NS-100	90 S X 32 E	0-1'	10
TI-NS-SSS-0929-2427			1-2'	14
TI-NS-SSS-0929-2428			2-3'	10
TI-NS-SSS-0929-2429			3-4'	7
TI-NS-SSS-0929-2430			4-5'	9
TI-NS-SSS-0929-2431			5-6'	8
TI-NS-SSS-0929-2280	NS-101	40 S X 110E	0-1'	10
TI-NS-SSS-0929-2281			1-2'	6
TI-NS-SSS-0929-2282			2-3'	11
TI-NS-SSS-0929-2283			3-4'	13
TI-NS-SSS--0929-2284			4-5'	10
TI-NS-SSS-0929-2285			5-6'	14

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0929-2432	NS-102	83 S X 31 E	0-1'	18
TI-NS-SSS-0929-2433			1-2'	20
TI-NS-SSS-0929-2434			2-3'	6
TI-NS-SSS-0929-2435			3-4'	13
TI-NS-SSS-0929-2436			4-5'	10
TI-NS-SSS-0929-2437			5-6'	14
TI-NS-SSS-0929-2286	NS-103	50 S X 110E	0-1'	8
TI-NS-SSS-0929-2287			1-2'	7
TI-NS-SSS-0929-2288			2-3'	11
TI-NS-SSS-0929-2289			3-4'	8
TI-NS-SSS-0929-2290			4-5'	4
TI-NS-SSS-0929-2291			5-6'	5
TI-NS-SSS-0929-2438	NS-104	54 S X 35 E	0-1'	139
TI-NS-SSS-0929-2439			1-2'	83
			2-3'	R
			3-4'	R
			4-5'	R
			5-6'	R
TI-NS-SSS-0930-2292	NS-105	45 S X 75 E	4-5'	9
TI-NS-SSS-0930-2293			5-6'	10
TI-NS-SSS-0930-2294			6-7'	8
TI-NS-SSS-0930-2295			7-8'	11
TI-NS-SSS-0929-2296	NS-106	50 S X 25 E	0-1'	13
TI-NS-SSS-0929-2297			2-3'	12
			3-4'	R
TI-NS-SSS-0929-2298			4-5'	R
TI-NS-SSS-0929-2299			5-6'	10
TI-NS-SSS-0929-2300			6-7'	7
TI-NS-SSS-0929-2301			7-8'	11
			8-9'	16
TI-NS-SSS-0930-2302	NS-107	50 S X 80 E	4-5'	8
TI-NS-SSS-0930-2303			5-6'	9
TI-NS-SSS-0930-2304			6-7'	7
TI-NS-SSS-0930-2305			7-8'	13
TI-NS-SSS-0930-2440	NS-108	35 S X 20 E	4-5'	13
TI-NS-SSS-0930-2441			5-6'	9
TI-NS-SSS-0930-2442			6-7'	6
TI-NS-SSS-0930-2443			7-8'	11

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-0930-2306	NS-109	70 S X 80 E	4-5'	4
TI-NS-SSS-0930-2307			5-6'	17
TI-NS-SSS-0930-2308			6-7'	9
TI-NS-SSS-0930-2309			7-8'	12
TI-NS-SSS-0930-2310	NS-110	50 S X 70 E	4-5'	59
TI-NS-SSS-0930-2311			5-6'	R
TI-NS-SSS-0930-2312			6-7'	13
			7-8'	7
TI-NS-SSS-0930-2313	NS-111	80 S X 70E	4-5'	9
TI-NS-SSS-0930-2314			5-6'	4
TI-NS-SSS-0930-2315			6-7'	11
TI-NS-SSS-0930-2316			7-8'	7
TI-NS-SSS-0930-2317	NS-112	60 S X 70 E	4-5'	17
TI-NS-SSS-0930-2318			5-6'	8
TI-NS-SSS-0930-2319			6-7'	10
TI-NS-SSS-0930-2320			7-8'	6
	NS-113	58 S X 40 E	0-1'	R
			1-2'	R
TI-NS-SSS-0930-2321			2-3'	29
TI-NS-SSS-0930-2322			3-4'	31
TI-NS-SSS-0930-2323			4-5'	33
TI-NS-SSS-0930-2324			5-6'	11
TI-NS-SSS-0930-2325			6-7'	10
TI-NS-SSS-0930-2326			7-8'	7
TI-NS-SSS-1003-2327	NS-114	97 S X 36 E	0-1'	9
TI-NS-SSS-1003-2328			1-2'	9
TI-NS-SSS-1003-2329			2-3'	6
			3-4'	R
TI-NS-SSS-1003-2444	NS-115	110S X 42 E	0-1'	16
TI-NS-SSS-1003-2445			1-2'	5
TI-NS-SSS-1003-2446			2-3'	12
TI-NS-SSS-1123-5642	NS-116	30 S X 190 E	0-2'	12
TI-NS-SSS-1123-5643			2'-4'	8
TI-NS-SSS-1123-5644			4'-6'	4
TI-NS-SSS-1123-5645	NS-117	25 S X 185 E	0-2'	10
TI-NS-SSS-1123-5646			2'-4'	12
TI-NS-SSS-1123-5647			4'-6'	4

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-1123-5648	NS-118	30 S X 180 E	0-2'	8
TI-NS-SSS-1123-5649			2'-4'	12
TI-NS-SSS-1123-5650			4'-6'	6
TI-NS-SSS-1123-5651	NS-119	25 S X 175 E	0-2'	10
TI-NS-SSS-1123-5652			2'-4'	8
TI-NS-SSS-1123-5653			4'-6'	4
TI-NS-SSS-1123-5654	NS-120	30 S X 170E	0-2'	5
TI-NS-SSS-1123-5655			2'-4'	16
TI-NS-SSS-1123-5656			4'-6'	12
TI-NS-SSS-1123-5657	NS-121	25 S X 165 E	0-2'	10
TI-NS-SSS-1123-5658			2'-4'	14
TI-NS-SSS-1123-5659			4'-6'	6
TI-NS-SSS-1123-5660	NS-122	30 S X 160 E	0-2'	11
TI-NS-SSS-1123-5661			2'-4'	6
TI-NS-SSS-1123-5662			4'-6'	8
TI-NS-SSS-1123-5663	NS-123	25 S X 165 E	0-2'	20
			2'-4'	R
			4'-6'	R
TI-NS-SSS-1123-5664	NS-124	30 S X 150 E	0-2'	7
TI-NS-SSS-1123-5665			2'-4'	6
TI-NS-SSS-1123-5666			4'-6'	8
TI-NS-SSS-1123-5667	NS-125	20 S X 160 E	0-2'	24
TI-NS-SSS-1123-5668			2'-4'	6
TI-NS-SSS-1123-5669			4'-6'	8
TI-NS-SSS-1123-5670	NS-126	30 S X 140 E	0-2'	10
TI-NS-SSS-1123-5671			2'-4'	7
TI-NS-SSS-1123-5672			4'-6'	5
TI-NS-SSS-1123-5673	NS-127	35 S X 155 E	0-2'	16
TI-NS-SSS-1123-5674			2'-4'	10
			4'-6'	
TI-NS-SSS-1123-5675	NS-128	20 S X 170 E	0-2'	12
TI-NS-SSS-1123-5676			2'-4'	8
TI-NS-SSS-1123-5677			4'-6'	5

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-1123-5678	NS-129	35 S X 165 E	0-2'	18
TI-NS-SSS-1123-5679			2'-4'	20
TI-NS-SSS-1123-5680			4'-6'	17
TI-NS-SSS-1123-5681	NS-130	20 S X 180 E	0-2'	13
TI-NS-SSS-1123-5682			2'-4'	11
			4'-6'	R
TI-NS-SSS-1123-5683	NS-131	20 S X 190 E	0-2'	31
TI-NS-SSS-1123-5684			2'-4'	9
TI-NS-SSS-1123-5685			4'-6'	10
TI-NS-SSS-1123-5686	NS-132	35 S X 175 E	0-2'	10
TI-NS-SSS-1123-5687			2'-4'	6
TI-NS-SSS-1123-5688			4'-6'	11
TI-NS-SSS-1128-5689	NS-133	35 S X 135 E	0-2'	18
TI-NS-SSS-1128-5690			2'-4'	1028
TI-NS-SSS-1128-5691			4'-6'	17
TI-NS-SSS-1128-5692	NS-134	35 S X 185 E	0-2'	6
TI-NS-SSS-1128-5693			2'-4'	9
TI-NS-SSS-1128-5694			4'-6'	13
TI-NS-SSS-1128-5695	NS-135	40 S X 160 E	0-2'	5
TI-NS-SSS-1128-5696			2'-4'	6
TI-NS-SSS-1128-5697			4'-6'	6
TI-NS-SSS-1128-5698	NS-136	45 S X 135 E	0-2'	12
TI-NS-SSS-1128-5699			2'-4'	8
TI-NS-SSS-1128-5700			4'-6'	28
TI-NS-SSS-1128-5701	NS-137	50 S X 130 E	0-2'	12
			2'-4'	R
			4'-6'	R
TI-NS-SSS-1128-5702	NS-138	50 S X 120 E	0-2'	12
TI-NS-SSS-1128-5703			2'-4'	17
TI-NS-SSS-1128-5704			4'-6'	14
TI-NS-SSS-1130-5705	NS-139	35 S X 115 E	0-2'	11
			2'-4'	R
			4'-6'	R

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-1130-5706	NS-140	45 S X 115 E	0-2'	8
TI-NS-SSS-1130-5707			2'-4'	18
TI-NS-SSS-1130-5708			4'-6'	10
TI-NS-SSS-1130-5709	NS-141	45 S X 125 E	0-2'	8
TI-NS-SSS-1130-5710			2'-4'	19
TI-NS-SSS-1130-5711			4'-6'	15
TI-NS-SSS-1130-5712	NS-142	35 S X 125 E	0-2'	9
TI-NS-SSS-1130-5713			2'-4'	12
TI-NS-SSS-1130-5714			4'-6'	8
TI-NS-SSS-1130-5715	NS-143	25 S X 125 E	0-2'	6
TI-NS-SSS-1130-5716			2'-4'	24
TI-NS-SSS-1130-5717			4'-6'	16
TI-NS-SSS-1130-5718	NS-144	40 S X 120 E	0-2'	6
TI-NS-SSS-1130-5719			2'-4'	15
			4'-6'	R
TI-NS-SSS-1130-5720	NS-145	40 S X 130 E	0-2'	8
TI-NS-SSS-1130-5721			2'-4'	13
TI-NS-SSS-1130-5722			4'-6'	16
TI-NS-SSS-1130-5723	NS-146	30 S X 120 E	0-2'	10
TI-NS-SSS-1130-5724			2'-4'	26
			4'-6'	R
TI-NS-SSS-1201-5725	NS-147	25 S X 135 E	0-2'	23
TI-NS-SSS-1201-5726			2'-4'	11
TI-NS-SSS-1201-5727			4'-6'	6
TI-NS-SSS-1201-5728	NS-148	30 S X 130 E	0-2'	26
TI-NS-SSS-1201-5729			2'-4'	16
			4'-6'	R
TI-NS-SSS-1201-5730	NS-149	21 S X 120 E	0-2'	14
TI-NS-SSS-1201-5731			2'-4'	25
TI-NS-SSS-1201-5732			4'-6'	17
TI-NS-SSS-1201-5733	NS-150	20 S X 130 E	0-2'	10
TI-NS-SSS 1201-5734			2'-4'	8
TI-NS-SSS-1201-5735			4'-6'	8

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
TI-NS-SSS-1201-5736	NS-151	50 S X 160 E	0-2'	14
TI-NS-SSS-1201-5737			2'-4'	7
TI-NS-SSS-1201-5738			4'-6'	6
TI-NS-SSS-1201-5739	NS-152	45 S X 155 E	0-2'	11
TI-NS-SSS-1201-5740			2'-4'	34
TI-NS-SSS-1201-5741			4'-6'	10
TI-NS-SSS-1201-5742	NS-153	50 S X 150 E	0-2'	24
TI-NS-SSS-1201-5743			2'-4'	9
TI-NS-SSS-1201-5744			4'-6'	8
TI-NS-SSS-1201-5745	NS-154	45 S X 145 E	0-2'	9
TI-NS-SSS-1201-5746			2'-4'	56
TI-NS-SSS-1201-5747			4'-6'	15
TI-NS-SSS-1201-5748	NS-155	48 S X 140 E	0-2'	9
			2'-4'	R
TI-NS-SSS-1201-5749			4'-6'	22
TI-NS-SSS-1201-5750	NS-156	40 S X 141 E	0-2'	10
TI-NS-SSS-1201-5751			2'-4'	15
TI-NS-SSS-1201-5752			4'-6'	9
TI-NS-SSS-1201-5753	NS-157	35 S X 146 E	0-2'	16
TI-NS-SSS-1201-5754			2'-4'	9
TI-NS-SSS-1201-5755			4'-6'	12
	RH-1	20 S X 22 E	0-1'	14
			1'-2'	10
	RH-2	25 S X 20 E	0-1'	48
			1'-2'	14
	RH-3	30 S X 15 E	0-1'	16
			1'-2'	20
	RH-4	28 S X 30 E	0-1'	38
			1'-2'	24
	RH-5	33 S X 20 E	0-1'	17
			1'-2'	81
	RH-6	32 S X 30 E	0-1'	16
			1'-2'	32

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
	RH-7	32 S X 32 E	0-1'	16
			1'-2'	10
			2'-3'	8
	RH-8	37 S X 30 E	0-1'	56
			1'-2'	14
	RH-9	37 S X 35 E	0-1'	36
			1'-2'	30
	RH-10	42 S X 35 E	0-1'	14
			1'-2'	12
			2'-3'	18
	RH-11	41 S X 41 E	0-1'	36
			1'-2'	30
	RH-12	40 S X 47 E	0-1'	122
			1'-2'	146
	RH-13	47 S X 42 E	0-1'	40
			1'-2'	22
	RH-14	45 S X 55 E	0-1'	54
			1'-2'	154
	RH-15	53 S X 50 E	0-1'	17
			1'-2'	81
	RH-16	52 S X 58 E	0-1'	32
			1'-2'	122
	RH-17	57 S X 57 E	0-1'	112
			1'-2'	88
	RH-18	35 S X 18 E	0-1'	10
			1'-2'	28
	RH-19	38 S X 15 E	0-1	92
			1'-2'	174
	RH-20	42 S X 18 E	0-1'	24
			1'-2'	42
	RH-21	45 S X 21 E	0-1'	18
			1'-2'	12
			2'-3'	

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
	RH-22	45 S X 28 E	0-1'	16
			1'-2'	4
	RH-23	50 S X 30 E	0-1'	18
			1'-2'	12
	RH-24	50 S X 35 E	0-1'	26
			1'-2'	12
	RH-25	58 S X 36 E	0-1'	18
			1'-2'	14
	RH-26	58 S X 40 E	0-1'	38
			1'-2'	234
			2'-3'	164
	RH-27	50 S X 42 E	0-1'	18
			1'-2'	32
	RH-28	62 S X 45 E	0-1'	24
			1'-2'	42
	RH-29	45 S X 18 E	0-1'	34
			1'-2'	34
	RH-30	55 S X 25 E	0-1'	12
			1'-2'	32
	RH-31	60 S X 30 E	0-1'	314
			1'-2'	102
	RH-32	65 S X 30 E	0-1'	20
			1'-2'	
	RH-33	68 S X 40 E	0-1'	115
			1'-2'	110
	RH-34	72 S X 40 E	0-1'	94
			1'-2'	10
	RH-35	78 S X 48 E	0-1'	12
			1'-2'	25
	RH-36	85 S X 57 E	0-1'	48
			1'-2'	26

Stockade Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10min
	RH-37	90 S X 65 E	0-1'	18
			1'-2'	6
	RH-38	76 S X 28 E	0-1'	14
			1'-2'	30
	RH-39	77 S X 34 E	0-1'	234
			1'-2'	3000
	RH-40	93 S X 58 E	0-1'	10
			1'-2'	32
	RH-41	100 S X 59 E	0-1'	10
			1'-2'	6
	RH-42	110 S X 50 E	0-1'	12
			1'-2'	10

Radiological Surveys of Open Land Areas

Texas Instruments Incorporated
Attleboro, Massachusetts

Appendix A2

Stockade Area and Railroad Spur

Drawing CPS-TI-0109A Sub Surface Soil Sample Locations

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Appendix A3

Stockade Area and Railroad Spur

Drawing CPS-TI-0109H Grid Cell Averages and Maximum Depths

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Appendix A4

Stockade Area and Railroad Spur

Bore Hole Measurements and Static Measurements

118945

Stockade Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NaI (cpm)
	25	85		1'	NO READ
				2'	DUE TO DEPTH
				3'	SHORT CORD
	28	83		1'	"
				2'	"
				3'	"
	108	52		1'	10,000
				2'	9,000
				3'	9,000
	90	50		1'	10,000
				2'	10,000
				3'	10,000
	100	40		1'	10,000
				2'	11,000
				3'	11,000
	85	45		1'	9,000
				2'	10,000
				3'	10,000
	65	45		1'	8,000
				2'	R
				3'	R
	70	40		1'	11,000
				2'	13,000
				3'	25,000
	80	48		1'	9,000
				2'	10,000
				3'	10,000
	105	55		1'	9,000
				2'	10,000
				3'	10,000
	100	50		1'	10,000
				2'	H2O
				3'	H2O

Stockade Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NaI (cpm)
	75	45		1'	11,000
				2'	10,000
				3'	11,000
	80	40		1'	10,000
				2'	10,000
				3'	11,000
	50	70		1'	11,000
				2'	13,000
				3'	12,000
	45	75		1'	10,000
				2'	12,000
				3'	6,000
	50	80		1'	7,000
				2'	10,000
				3'	11,000
	70	80		1'	7,000
				2'	9,000
				3'	H2O
	80	70		1'	8,000
				2'	11,000
				3'	6,000
	60	70		1'	10,000
				2'	12,000
				3'	8,000
	58	40		1'	8,000
				2'	10,000
				3'	12,000
	97	36		1'	10,000
				2'	9,000
				3'	9,000
	110	42		1'	9,000
				2'	9,000
				3'	10,000

Stockade Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NaI (cpm)
	30	190		1'	5000
				2'	4500
				3'	4000
	25	185		1'	4000
				2'	4500
				3'	5000
	30	180		1'	3500
				2'	4000
				3'	4500
	25	175		1'	3500
				2'	4000
				3'	4000
	30	170		1'	4000
				2'	4000
				3'	4500
	25	165		1'	3500
				2'	4000
				3'	4500
	30	160		1'	4000
				2'	4000
				3'	4500
	25	165		1'	3500
				2'	R
				3'	R
	30	150		1'	4000
				2'	4000
				3'	4500
	20	160		1'	3500
				2'	4000
				3'	4500
	30	140		1'	4000
				2'	4000
				3'	4000

Stockade Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NaI (cpm)
	35	155		1'	3500
				2'	3500
				3'	4000
	20	170		1'	3500
				2'	3500
				3'	4000
	35	165		1'	4000
				2'	4000
				3'	4500
	20	180		1'	4000
				2'	4000
				3'	4500
	20	190		1'	3500
				2'	4000
				3'	4000
	35	175		1'	3500
				2'	4000
				3'	4000
	35	135		1'	NO READ DUE
				2'	TO HEAVY RAIN
				3'	"
	35	185		1'	"
				2'	"
				3'	"
	40	160		1'	"
				2'	"
				3'	"
	45	135		1'	"
				2'	"
				3'	"
	50	130		1'	H2O
				2'	R
				3'	R

Stockade Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NaI (cpm)
	50	120		1'	H2O
				2'	"
				3'	"
	35	115		1'	4000
				2'	R
				3'	R
	45	115		1'	3500
				2'	400
				3'	4000
	45	125		1'	3500
				2'	4000
				3'	4000
	35	125		1'	4000
				2'	4000
				3'	4000
	25	125		1'	3500
				2'	3500
				3'	4000
	40	120		1'	3500
				2'	4000
				3'	4500
	40	130		1'	4000
				2'	3500
				3'	4000
	30	120		1'	3500
				2'	3500
				3'	4000
	25	135		1'	4000
				2'	4000
				3'	4000
	30	130		1'	3500
				2'	4000
				3'	4500

Stockade Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NaI (cpm)
	21	120		1'	3000
				2'	4000
				3'	4500
	20	130		1'	3500
				2'	4000
				3'	4500
	50	160		1'	4000
				2'	4500
				3'	4500
	45	155		1'	4000
				2'	4000
				3'	4500
	50	150		1'	4000
				2'	4000
				3'	4500
	45	145		1'	4500
				2'	4500
				3'	5000
	48	140		1'	3000
				2'	3500
				3'	4000
	40	141		1'	3500
				2'	4000
				3'	4000
	35	146		1'	3500
				2'	4000
				3'	4500
	22	10		1'	3500
				2'	4500
				3'	6000
	60	21		1'	5500
				2'	4000
				3'	4000

Stockade Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NaI (cpm)
	26	10		1'	4000
				2'	4000
				3'	3500
	55	18		1'	4000
				2'	4500
				3'	4500
	30	11		1'	4000
				2'	4500
				3'	4000
	65	21		1'	4000
				2'	5000
				3'	4000
	33	11		1'	4000
				2'	4500
				3'	4000
	94	31		1'	4000
				2'	3500
				3'	3500
	123	42		1'	4000
				2'	4000
				3'	3500
	132	46		1'	4000
				2'	4500
				3'	4000
	130	44		1'	4000
				2'	4000
				3'	3500
	105	34		1'	4000
				2'	3500
				3'	3500
	45	14		1'	4000
				2'	4000
				3'	3500

Stockade Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NaI (cpm)
	74	25		1'	4000
				2'	4000
				3'	3500
	80	29		1'	5000
				2'	4000
				3'	4000
	86	29		1'	5000
				2'	4500
				3'	4500
	116	39		1'	4000
				2'	4000
				3'	3000
	40	14		1'	HOLE FILLED IN
				2'	"
				3'	"
	50	18		1'	HOLE FILLED IN
				2'	"
				3'	"
	69	25		1'	3500
				2'	h2o
				3'	h20
	90	31		1'	3500
				2'	caved in
				3'	caved in
	101	34		1'	4000
				2'	h2o
				3'	h2o
	110	39		1'	3000
				2'	h2o
				3'	h2o
	120	42		1'	4000
				2'	caved in
				3'	caved in

Stockade Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NaI (cpm)
	126	44		1'	3500
				2'	h2o
				3'	h2o
120		150		1'	3000
				2'	4000
				3'	4000
120		140		1'	3500
				2'	3500
				3'	4500
120		130		1'	4000
				2'	4000
				3'	4000
140		150		1'	3500
				2'	4000
				3'	4000
115		155		1'	4000
				2'	3500
				3'	4500
115		125		1'	3500
				2'	4000
				3'	4000
120		120		1'	4000
				2'	4000
				3'	4500
115		135		1'	4500
				2'	6000
				3'	6000

Stockade Area: Grid Intersection Static Surface Measurements

	SAMPLE	LOCATION		Nal (cpm)
North	South	East	West	
	20	170		2200
	20	176		2000
	20	190		2200
	20	130		2100
	20	150		2000
	20	140		2200
	20	120		2300
	20	110		2000
	20	90		2300
	20	100		2300
	20	80		2500
	20	60		2800
	20	150		2100
	20	140		2200
	20	160		2100
	20	170		2100
	20	180		2200
	20	190		2100
	25	185		2000
	25	135		2200
	25	155		2200
	25	145		2300
	25	125		2100
	25	95		2200
	25	105		2000
	25	85		2300
	25	65		2700
	25	75		2100
	25	125		2400
	25	185		2100
	25	175		2200
	25	165		2100
	25	165		2200
	30	190		2100
	30	150		2100
	30	140		2200
	30	130		2100
	30	120		2000
	30	90		2600
	30	100		2200
	30	80		2300
	30	70		2800
	30	60		2200
	30	120		2100
	30	190		2500
	30	180		2100

Stockade Area: Grid Intersection Static Surface Measurements

	SAMPLE	LOCATION		NaI (cpm)
North	South	East	West	
	30	170		2300
	30	160		2100
	30	150		2000
	30	140		2000
	35	155		2100
	35	145		2100
	35	135		2000
	35	125		2000
	35	115		2000
	35	95		2400
	35	105		1800
	35	85		2600
	35	65		2600
	35	75		2500
	35	115		2100
	35	125		2300
	35	135		2100
	35	185		2100
	35	155		2000
	35	165		2200
	35	175		2100
	40	150		2000
	40	140		2000
	40	130		2100
	40	120		2000
	40	110		2200
	40	90		2500
	40	100		2300
	40	80		2100
	40	70		2600
	40	60		2300
	40	120		2300
	40	130		2200
	40	160		2200
	45	155		2100
	45	145		2100
	45	135		2000
	45	125		2100
	45	115		2300
	45	95		3500
	45	105		1900
	45	85		2400
	45	65		2400
	45	75		6000
	45	115		2100
	45	125		2200

Stockade Area: Grid Intersection Static Surface Measurements

	SAMPLE LOCATION			NaI (cpm)
North	South	East	West	
	45	135		2300
	50	150		2300
	50	140		2000
	50	130		2200
	50	120		2200
	50	110		2100
	50	90		2400
	50	100		2200
	50	80		2700
	50	60		2500
	50	70		2600
	50	130		2100
	50	120		2000
	55	135		2100
	55	125		2100
	55	95		2500
	55	145		2400
	55	115		2300
	55	105		2100
	55	85		2400
	55	65		2600
	55	75		2400
	60	90		2600
	60	100		2100
	60	80		2300
	60	70		2500
	60	60		2500
	65	105		2700
	65	95		2200
	65	85		2400
	65	75		2500
	65	65		2400
	70	100		2300
	70	90		2300
	70	80		2300
	70	60		2400
	70	70		2400
	75	105		2300
	75	95		2400
	75	85		2500
	75	75		2300
	75	65		2600
	80	100		2300
	80	90		2400
	80	80		2200
	80	60		2500

Stockade Area: Grid Intersection Static Surface Measurements

	SAMPLE	LOCATION		NaI (cpm)
North	South	East	West	
	80	70		2500
	85	105		2400
	85	95		2500
	85	85		2700
	85	75		2400
	85	65		2700
	90	100		2500
	90	90		2400
	90	80		2200
	90	70		2600
	90	60		2500
	95	95		3500
	95	105		2500
	95	85		2600
	95	65		2400
	95	75		2600
	100	100		2400
	100	90		2500
	100	80		2400
	100	70		2000
	100	60		2300
	105	95		2400
	105	85		2500
	105	65		2100
	105	75		2100
	110	90		2500
	110	80		2200
	110	70		2200
	110	60		2100
	115	95		2600
	115	85		2500
	115	75		2100
	115	65		2100
	120	90		2500
	125	145		2300

Radiological Surveys of Open Land Areas

Texas Instruments Incorporated
Attleboro, Massachusetts

Appendix A5

Stockade Area and Railroad Spur

Grid Cell Averages

Location Grid	Location Sample	Sample I.D.	0-1'	1-2'	2-3'	3-4'	4-5'	5-6'	6-7'	7-8'	8-9'	9-10'
20S x 0	22Sx10E	NS-158	2	2	2	2	126	126	2	2		2
	26Sx10E	NS-159	2	2	2	2	2	2	2	2		2
Average			2	2	2	2	64	64	2	2		2
20S x 10E	22Sx10E	NS-158	2	2	2	2	126	126	2	2		2
	26Sx10E	NS-159	2	2	2	2	2	2	2	2		2
	30SX11E	NS-160	2	2	26	26	2	2	35	35		2
	25SX20E	RH-2	48	2								
	30SX15E	RH-3	16	20								
Average			14	6	10	10	43	43	13	13		2
20S x 20E	20S x 22E	RH-1	2	2								
	25S x20E	RH-2	48	2								
	28S x30E	RH-4	38	24								
Average			29	9								
20S x 30E	28S x 30E	RH-4	38	24								
30S x 10E	30SX11E	NS-160	2	2	26	26	2	2	35	35		2
	33SX11E	NS-161	2	2	2	2	2	2	2	2		2
	30SX15E	RH-3	16	20								
	33SX20E	RH-5	17	81								
	38SX15E	RH-19	92	174								
	40SX14E	NS-162	2	2	2	2	2	2	2	2		2
	35SX20E	NS-108					2	2	2	2		
	35SX18E	RH-18	2	28								
Average			19	44	10	10	2	2	10	10	####	2
30S x 20E	33SX20E	RH-5	17	81								
	32SX30E	RH-6	16	32								
	35SX20E	NS-108					2	2	2	2		
	37SX30E	RH-8	56	2								
Average			30	38	#####	#####	2	2	2	2		
30S x 30E	32SX30E	RH-6	16	32								
	37SX30E	RH-8	56	2								
	32SX32E	RH-7	16	2	2							
	37SX35E	RH-9	36	30								
Average			31	17	2							
40S x 10E	40SX14E	NS-162	2	2	2	2	2	2	2	2	2	2
	42SX18E	RH-20	24	42								
	45SX18E	RH-29	34	34								
	45SX14E	NS-163	20	20	2	2	2	2	2	2	2	2
	50SX18E	NS-164	17	17	2	2	15	15	2	2	2	2
Average			19	23	2	2	6	6	2	2	2	2

Location Grid	Location Sample	Sample I.D.	0-1'	1-2'	2-3'	3-4'	4-5'	5-6'	6-7'	7-8'	8-9'	9-10'
40S x 40E	41SX41E	RH-11	36	30								
	40SX47E	RH-12	122	146								
	47SX42E	RH-13	40	22								
	50SX42E	RH-27	18	32								
Average			**54**	**58**								
50S x 20E		NS-106	2		2	R	R	2	2	2	16	
	50SX30E	RH-23	18	2								
	55SX25E	RH-30	2	32								
	60SX21E	NS-166	67	67	2	2	16	16	17	17	2	2
	60SX30E	RH-31	314	102								
Average			**81**	**51**	**2**	**2**	**16**	**9**	**10**	**10**	**9**	**2**
60S x 20E	60SX21E	NS-166	67	67	2	2	16	16	17	17	2	2
	65SX21E	NS-167	17	17	31	31	2	2	16	16	2	2
	30SX15E	RH-31	314	102								
	65SX30E	RH-32	20									
	69SX25E	NS-168	2	2	2	2	2	2	2	2	2	2
Average			**84**	**47**	**12**	**12**	**7**	**7**	**12**	**12**	**2**	**2**
70S x 20E	74SX25E	NS-169	2	2	2	2	2	2	2	2	2	2
	76SX28E	RH-38	2	30								
	80SX29E	NS-170	32	32	15	15	NR	NR	2	2	2	2
Average			**12**	**21**	**9**	**9**	**2**	**2**	**2**	**2**	**2**	**2**
80S x 20E	80SX29E	NS-170	32	32	15	15	NR	NR	2	2	2	2
	86SX29E	NS-171	33	33	34	34	28	28	R	R	R	R
Average			**33**	**33**	**25**	**25**	**28**	**28**	**2**	**2**	**2**	**2**
80S X 30E		NS-94	15	2	R	35	42					
		NS-102	18	20	2	2	2	2				
		NS-98	2	85	25	2	21	2				
		NS-114	2	2	2	R						
		NS-100	2	2	2	2	2	2				
	90SX31E	NS-172	2	2	2	2	R	R	R	R	R	R
Average			**7**	**19**	**7**	**9**	**17**	**2**	**###**	**####**	**####**	**###**
80S x 40E		NS-94	15	2	R	35	42					
		NS-87	35	88	17	R	R	R				
		NS-85	R	R	2	2	R	R				
		NS-83	21	2	2	2						
Average			**24**	**31**	**7**	**13**	**42**					
80S x 50E		NS-76	15	19	18	8						
		NS-75	21	2	2	19						
		NS-83	21	2	2	2						
	85SX57E	RH-36	48	26								
Average			**26**	**12**	**7**	**10**						

Location Grid	Location Sample	Sample I.D.	0-1'	1-2'	2-3'	3-4'	4-5'	5-6'	6-7'	7-8'	8-9'	9-10'
90S X 50E		NS-83	21	2	2	2						
		NS-91	2	2	2	2	2	2				
	93SX56E	RH-40	2	32								
	100SX59E	RH-41	2	2								
Average			**7**	**10**	**2**	**2**	**2**	**2**				
100S X 50E		NS-91	2	2	2	2	2	2				
		NS-89	2	15	R	R	2	2				
		NS-84	2	2	43	2	2	2				
	110SX50E	RH-42	2	2								
	100SX59E	RH-41	2	2								
		NS-72	2	19	2	2						
Average			**2**	**7**	**16**	**2**	**2**	**2**				
20S x 100E		NS-11	18	16	48	16						
		NS-93	2	24	2	R						
		NS-95	15	15	2	2	2	2				
Average			**12**	**18**	**17**	**9**	**2**	**2**				
30S x 100E		NS-11	18	16	48	16						
		NS-15	24	2	15	15						
		NS-97	2	2	19	2	18	2				
		NS-101	2	2	2	2	2	2				
Average			**12**	**6**	**21**	**9**	**10**	**2**				
40S x 90E		NS-23	17	33	16	2						
		NS-26	2	2	2	2						
		NS-28	2	2	15	15						
		NS-13	2	2	2	2						
		NS-18	17	2	2	2						
		NS-15	24	2	15	15						
Average			**11**	**7**	**9**	**6**						
40S x 100E		NS-15	24	2	15	15						
		NS-101	2	2	2	2	2	2				
		NS-99	2	17	2	2	2	2				
		NS-23	17	33	16	2						
		NS-103	2	2	11	2	2	2				
Average			**9**	**11**	**9**	**5**	**2**	**2**				
50S x 90E		NS-31	16	2	2	2						
		NS-54	17	18	18	2						
		NS-30	2	26	21	2						
		NS-23	17	33	16	2						
		NS-26	2	2	2	2						
Average			**11**	**16**	**12**	**2**						

Stockade Area: Grid Cell Averages

Location Grid	Location Sample	Sample I.D.	0-1'	1-2'	2-3'	3-4'	4-5'	5-6'	6-7'	7-8'	8-9'	9-10'
50S x 100E		NS-23	17	33	16	2						
		NS-103	2	2	2	2	2	2				
Average			10	18	9	2	2	2				
60S x 80E		NS-52	2	2	2	16						
		NS-31	16	2	2	2						
		NS-43	2	2	2	2						
		NS-47\109	40	29	R	75	2	17	2	2		
		NS-33	31	16	2	16						
Average			18	10	2	23	2	17	2	2		
60S x 90E		NS-33	31	16	2	18						
		NS-61	2	2	18	2						
		NS-56	2	2	16	2						
		NS-53	16	2	17	16						
		NS-54	17	18	18	2						
		NS-31	16	2	2	2						
Average			14	7	12	7						
70S x 90E		NS-33	31	16	2	18						
		NS-61	2	2	18	2						
		NS-58	2	2	16	16						
		NS-50	2	2	2	2						
		NS-57	2	R	2	2						
		NS-74	2	16	2	2						
Average			7	8	7	7						
80S x 80E		NS-42	36	79	43	22						
		NS-32	15	2	22	6						
		NS-48	2	16	2	2						
		NS-50	2	2	2	2						
		NS-55	2	2	2	2						
Average			11	21	14	7						
40S X 140E		NS-156	2	2	15	15	2	2				
		NS-154	2	2	56	56	15	15				
		NS-155	2	2	R	R	22	22				
		NS-153	24	24	2	2	2	2				
Average			8	8	24	24	10	10				
40S x 150E		NS-153	24	24	2	2	2	2				
		NS-152	2	2	34	34	2	2				
		NS-151	2	2	2	2	2	2				
		NS-135	2	2	2	2	2	2				
Average			8	8	10	10	2	2				

Location Grid	Location Sample	Sample I.D.	0-1'	1-2'	2-3'	3-4'	4-5'	5-6'	6-7'	7-8'	8-9'	9-10'
20S x 180E		NS-130	2	2	2	2	R	R				
		NS-116	2	2	2	2	2	2				
		NS-117	2	2	2	2	2	2				
		NS-118	2	2	2	2	2	2				
		NS-131	31	31	2	2	2	2				
Average			**8**	**8**	**2**	**2**	**2**	**2**				
20S x 190E		NS-131	31	31	2	2	2	2				
		NS-116	2	2	2	2	2	2				
Average			**17**	**17**	**2**	**2**	**2**	**2**				
70 x 30E		NS-90	100	288	711							
		RH-34	94	2								
		RH-39	234	3000								
		NS-94	15	2		35	42					
Average			**111**	**823**	**711**	**35**	**42**					
70S x 40E		NS-90	100	288	711							
		RH-34	94	2								
		NS-92	30	37	168	132	125	2				
		NS-94	15	2		35	42					
		NS-87	35	88	17							
		RH-35	2	25								
Average			**46**	**74**	**299**	**84**	**84**	**2**				
70S x 50E		NS-78	44	32	26	2						
		NS-76	15	19	18	2						
		NS-75	21	9	2	19						
Average			**27**	**20**	**15**	**8**						
70S x 60E		NS-78	44	32	26	2						
		NS-51	44	162								
		NS-37	2	2	2	17						
		NS-75	21	2	2	19						
		NS-39	2	2	2	2						
		NS-40	63	49	78	55						
Average			**29**	**42**	**22**	**19**						
70S x 70E		NS-51	44	162								
		NS-47/109	40	29		75	2	17	2	2		
		NS-45	48	45								
		NS-40	63	49	78	55						
		NS-42	36	79	43	22						
Average			**46**	**73**	**61**	**51**	**2**	**17**				

Location Grid	Location Sample	Sample I.D.	0-1'	1-2'	2-3'	3-4'	4-5'	5-6'	6-7'	7-8'	8-9'	9-10'
70S x 80E		NS-47	40	29	R	75						
		NS-33	31	16	2	18						
		NS-109					2	17	2	2		
		NS-41	18	19	2	2						
		NS-42	36	79	43	22						
		NS-50	2	2	2							
Average			**25**	**29**	**12**	**29**	**2**	**17**	**2**	**2**		
70S x 90E		NS-33	31	16	2	18						
		NS-61	2	2	18	2						
		NS-58	2	2	16	16						
		NS-50	2	2	2	2						
		NS-57	2		2	2						
		NS-74	2	18	2	2						
Average			**7**	**8**	**7**	**7**						
60S x 30E		RH-31	314	102								
		NS-96	128	94	57	29	2	2	2	2		
		RH-32	20									
		RH-33	115	110								
		NS-90	100	288	711							
Average			**135**	**149**	**384**	**29**	**2**	**2**	**2**	**2**		
60S x 40E		RH-28	24	42								
		NS-88	R	R	R	R	R	R				
		RH-33	115	110								
		NS-90	100	288	711							
Average			**80**	**147**	**711**							
60S x 50E		NS-78	44	32	26	2						
Average			**44**	**32**	**26**	**2**						
60S x 60E		NS-78	44	32	26	2						
		NS-49	282	225	102	28						
		NS-38	21	2	23	2						
		NS-51	44	162	R	R						
Average			**98**	**105**	**50**	**11**						
60S x 70E		NS-49	282	225	102	28						
		NS-112	17	2	2	2						
		NS-52	2	2	2	16						
		NS-46	15	2878	722	277						
		NS-81	72	2	2	2						
		NS-51	44	162	R	R						
		NS-47/109	40	29	R	75	2	17	2	2		
Average			**67**	**471**	**166**	**67**	**2**	**17**	**2**	**2**		

Location Grid	Location Sample	Sample I.D.	0-1'	1-2'	2-3'	3-4'	4-5'	5-6'	6-7'	7-8'	8-9'	9-10'
		RH-26	38	234	164							
50S x 30E		RH-23	18	2								
		RH-24	26	2								
		NS-104	139	83		R						
		RH-25	18	2								
		RH-31	314	102								
		NS-113			29	31	33	2	2	2		
Average			**92**	**71**	**97**	**31**	**33**	**2**	**2**	**2**		
		RH-26	38	234	164							
50S x 40E		RH-27	32	18								
		RH-15	17	81								
		NS-113			29	31	33	2	2	2		
Average			**29**	**111**	**97**	**31**	**33**	**2**	**2**	**2**		
50S x 50E		RH-15	17	81								
		RH-16	32	122								
		RH-17	112	88								
Average			**54**	**97**								
		NS-24	387	44	33	2						
50S x 60E		NS-110					59		2	2		
		NS-36	47	34		30						
		NS-49/112	282	225	102	28	17	2	2	2		
Average			**239**	**101**	**68**	**20**	**38**	**2**	**2**	**2**		
50S x 70E		NS-24/110	387	44	33	2	59		2	2		
		NS-25/107	151	75	31	2	8	2	2	2		
		NS-34	18	18	16	22						
		NS-49/112	282	225	102	28	17	2	2	2		
		NS-52	2	2	2	16						
Average			**168**	**73**	**37**	**14**	**28**	**2**	**2**	**2**		
50S x 80E		NS-25	151	75	31	2						
		NS-107					2	9	2	2		
		NS-26	2	2	2	2						
		NS-29	2	2	2							
		NS-52	2	2	2	16						
		NS-31	16	2	2	2						
Average			**35**	**17**	**8**	**6**	**2**	**9**	**2**	**2**		
40S x 50E		RH-14	54	154								
Average			**54**	**154**								
40S x 60E		NS-17	22	2	2	2						
		NS-35	128	2	2	2						
		NS-24/110	387	44	33	2	59		2	2		
Average			**179**	**16**	**12**	**2**	**59**		**2**	**2**		

Stockade Area: Grid Cell Averages

Location Grid	Location Sample	Sample I.D.	0-1'	1-2'	2-3'	3-4'	4-5'	5-6'	6-7'	7-8'	8-9'	9-10'
40S x 70E		NS-17	22	2	2	2						
		NS-16	95	2	2	2						
		NS-22	186	1310	53	2						
		NS-105					2	2	2	2		
		NS-24	387	44	33	2						
		NS-25	151	75	31	2						
Average			**168**	**287**	**24**	**2**	**2**	**2**	**2**	**2**		
30 S X 130 E		NS-133	18	18	1028	1028	17	17				
		NS-148	26	26	16	16						
		NS-126	2	2	2	2	2	2				
		NS-145	2	2	2	2	16	16				
Average			**12**	**12**	**262**	**262**	**12**	**12**				
30 S X 40 E		RH-12	122	146								
Average			**122**	**146**								
30 S X 60 E		NS-21	33	19	16	2						
		NS-12	2	15	2	2						
		NS-17	22	2	2	2						
Average			**19**	**12**	**7**	**2**						
30 S X 70 E		NS-12	2	15	2	2						
		NS-3	25	116	204	29						
		NS-20	49	29	39	2						
		NS-17	22	2	2	2						
		NS-16	95	2	2	2						
Average			**39**	**33**	**50**	**7**						
30 S X 80 E		NS-3	25	116	204	29						
		NS-9	21	129	18	2						
		NS-10	26	2	21	2						
		NS-16	95	2	2	2						
		NS-18	17	2	2	2						
Average			**37**	**50**	**49**	**7**						
30 S X 90 E		NS-15	24	2	15	15						
		NS-18	17	2	2	2						
		NS-14	18	18	21	15						
		NS-9	21	129	18	2						
		NS-11	18	16	48	16						
Average			**20**	**33**	**21**	**10**						

Location Grid	Location Sample	Sample I.D.	0-1'	1-2'	2-3'	3-4'	4-5'	5-6'	6-7'	7-8'	8-9'	9-10'
40 S X 80 E		NS-16	95	2	2	2						
		NS-18	17	2	2	2						
		NS-27	2	2	2	2						
		NS-25	151	75	31	2						
		NS-107					2	2	2	2		
		NS-26	10	2	2	2						
Average			**55**	**17**	**8**	**2**	**2**	**2**	**2**	**2**		
20 S X 90 E		NS-9	21	129	18	2						
		NS-11	18	16	48	16						
		NS-8	2	17	2	17						
		NS-7	113	35	47	2						
Average			**39**	**49**	**29**	**9**						
20 S X 80 E		NS-6	60	23	26	27						
		NS-7	113	35	47	2						
		NS-5	18	104	115	1228						
		NS-80					799	26	26	51	263	59
		NS-79					42	20	25	62	261	18
		NS-3	25	116	204	29						
		NS-9	21	129	18	2						
Average			**47**	**81**	**82**	**258**	**421**	**23**	**26**	**57**	**262**	**39**
20 S X 70 E		NS-19	2	17	17	19						
		NS-1	22	2	2	2						
		NS-2	2	22	16	2						
		NS-3	25	116	204	29						
		NS-12	2	15	2	2						
Average			**11**	**34**	**48**	**11**						
80 S X 60 E		NS-75	21	2	2	19						
		NS-39	2	2	2	2						
		NS-40	63	49	78	55						
		NS-111					2	2	2	2		
		RH-37	18	2								
Average			**26**	**14**	**27**	**25**						
90 S X 70 E		NS-111					2	2	2	2		
		NS-40	63	49	78	55						
		NS-42	36	79	43	22						
		NS-32	15	2	22	2						
		NS-44	57	125	208	2						
		NS-82					261	2	2	2		
Average			**43**	**64**	**88**	**20**	**132**	**2**	**2**	**2**		

Radiological Surveys of Open Land Areas

Texas Instruments Incorporated
Attleboro, Massachusetts

Appendix A6

Stockade Area and Railroad Spur

Massachusetts Grid System Reference Coordinates

E. OTIS DYER

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Registered Professional Engineer and Land Surveyor
in Massachusetts, Rhode Island and North Carolina

MARCH 28, 1995
TEXAS INSTRUMENTS, INC.
IN ATTLEBORO, MASSACHUSETTS
BUILDING 10 GRID
ON MASSACHUSETTS GRID COORDINATES

IN METERS	IN FEET
120S, 120 E	345, 285.40, 663, 316.79
60 S, 120 E	345, 430.32, 663, 183.55
0S, 120E	345, 575.24, 663, 050.31
60N, 120E	345, 720.16, 662, 917.07
120N, 120E	345, 865.07, 662, 783.83
180N, 120E	346, 009.99, 662, 650.59
120 S, 150E	345, 352.02, 663, 389.25
60 S, 150E	345, 496.94, 663, 256.01
0N, 150E	345, 641.86, 663, 122.77
60N, 150E	345, 786.77, 662, 989.53
120 N, 150 E	345, 931.69, 662, 856.29
180 N, 150E	346, 076.61, 662, 723.05
120 S, 180 E	345, 418.64, 663, 461.70
60 S, 180 E	345, 563.56, 663, 328.47
0N, 180 E	345, 708.48, 663, 195.23
60N, 180 E	345, 853.39, 663, 061.99
120N, 180E	345, 998.31, 662, 928.75
180 N, 180 E	346, 143.23, 662, 795.51

T.I.
BUILDING 10 GRID
PAGE 2 OF 2

IN METERS	IN FEET
120 S, 210 E	345, 485.26, 663, 534.16
60 S, 210 E	345, 630.17, 663, 400.92
0N, 240 E	345, 775.10, 663, 267.68
60N, 210 E	345, 920.01, 663, 134.44
120 N, 210 E	346, 064.93, 663, 001.20
180 N, 210 E	346, 209.84, 662, 867.96

Radiological Surveys of Open Land Areas

Texas Instruments Incorporated
Attleboro, Massachusetts

Appendix B

Building 10 Perimeter and Building 10 Alleged Zirc Burning Area

Appendix B: Building 10 Perimeter and Building 10 Alleged Zirc Burning Area

B1 Sub-Surface Soil Sampling Data

B2 Drawing CPS-TI-0106A Sub Surface soil Sample Locations

B3 Drawing CPS-TI-0106H Grid Cell Averages and Maximum Depths

B4 Bore Hole Measurements and Static Measurements

B5 Grid Cell Averages

B6 Massachusetts Grid System Reference Coordinates

Radiological Surveys of Open Land Areas

Texas Instruments Incorporated
Attleboro, Massachusetts

Appendix B1

Building 10 Perimeter and Building 10 Alleged Zirc Burning Area

Sub-Surface Soil Sampling Data

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0829-1135	B10-1	198 N X 70 E	0-1'	8
TI-B10-SSS-0829-1136			1'-2'	10
TI-B10-SSS-0829-1137			2'-3'	13
TI-B10-SSS-0829-1138	B-10-2	195 N X 65 E	0-1'	7
TI-B10-SSS-0829-1139			1'-2'	18
TI-B10-SSS-0829-1140			2'-3'	R
TI-B10-SSS-0829-1141	B-10-3	198 N X 60 E	0-1'	9
TI-B10-SSS-0829-1142			1'-2'	15
TI-B10-SSS-0829-1143			2'-3'	12
TI-B10-SSS-0829-1144	B10-4	195 N X 55 E	0-1'	17
TI-B10-SSS-0829-1145			1'-2'	9
TI-B10-SSS-0829-1146			2'-3'	21
TI-B10-SSS-0829-1147	B10-5	198 N X 50 E	0-1'	11
TI-B10-SSS-0829-1148			1'-2'	14
TI-B10-SSS-0829-1149			2'-3'	16
TI-B10-SSS-0829-1150	B10-6	198 N X 40 E	0-1'	12
TI-B10-SSS-0829-1151			1'-2'	12
TI-B10-SSS-0829-1152			2'-3'	14
TI-B10-SSS-0830-1153	B10-7	195 N X 75 E	0-1'	12
TI-B10-SSS-0830-1154			1'-2'	R
TI-B10-SSS-0830-1155			2'-3'	R
TI-B10-SSS-0830-1156	B10-8	198 N X 80 E	0-1'	8
TI-B10-SSS-0830-1157			1'-2'	12
TI-B10-SSS-0830-1158			2'-3'	8
TI-B10-SSS-0830-1159	B10-9	195 N X 85 E	0-1'	11
TI-B10-SSS-0830-1160			1'-2'	9
TI-B10-SSS-0830-1161			2'-3'	5
TI-B10-SSS-0830-1162	B10-10	190 N X 80 E	0-1'	9
TI-B10-SSS-0830-1163			1'-2'	9
TI-B10-SSS-0830-1164			2'-3'	8
TI-B10-SSS-0830-1165	B10-11	190 N X 85 E	0-1'	10
TI-B10-SSS-08301166			1'-2'	10
TI-B10-SSS-0830-1167			2'-3'	10
	B10-12	190 N X 90 E	0-1'	R
TI-B10-SSS-0830-1168			1'-2'	8
TI-B10-SSS-0830-1169			2'-3'	17

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0830-1170	B10-13	198 N X 90 E	0-1'	6
TI-B10-SSS-0830-1171			1'-2'	14
TI-B10-SSS-0830-1172			2'-3'	R
TI-B10-SSS-0830-1173	B10-14	195 N X 95 E	0-1'	12
TI-B10-SSS-0830-1174			1'-2'	12
			2'-3'	R
TI-B10-SSS-0831-1175	B10-15	195 N X 100 E	0-1'	9
TI-B10-SSS-0831-1176			1'-2'	2
TI-B10-SSS-0831-1176			2'-3'	12
TI-B10-SSS-0831-1177	B10-16	190 N X 100 E	0-1'	8
TI-B10-SSS-0831-1178			1'-2'	21
TI-B10-SSS-0831-1179			2'-3'	14
TI-B10-SSS-0831-1180	B10-17	190 N X 110 E	0-1'	14
TI-B10-SSS-0831-1181			1'-2'	7
TI-B10-SSS-0831-1182			2'-3'	10
TI-B10-SSS-0831-1183	B10-18	190 N X 120 E	0-1'	8
TI-B10-SSS-0831-1184			1'-2'	9
			2'-3'	R
TI-B10-SSS-0831-1185	B10-19	185 N X 115 E	0-1'	15
TI-B10-SSS-0831-1186			1'-2'	10
TI-B10-SSS-0831-1187			2'-3'	8
TI-B10-SSS-0831-1188	B10-20	180 N X 120 E	0-1'	11
TI-B10-SSS-0831-1189			1'-2'	10
TI-B10-SSS-0831-1190			2'-3'	7
TI-B10-SSS-0831-1191	B10-21	180 N X 130 E	0-1'	10
TI-B10-SSS-0831-1192			1'-2'	21
TI-B10-SSS-0831-1193			2'-3'	10
TI-B10-SSS-0831-1194	B10-22	185 N X 125 E	0-1'	8
TI-B10-SSS-0831-1195			1'-2'	10
TI-B10-SSS-0831-1196			2'-3'	11
TI-B10-SSS-0831-1197	B10-23	190 N X 130 E	0-1'	12
TI-B10-SSS-0831-1198			1'-2'	11
TI-B10-SSS-0831-1199			2'-3'	10
TI-B10-SSS-0831-1200	B10-24	185 N X 135 E	0-1'	3
TI-B10-SSS-0831-1201			1'-2'	6
TI-B10-SSS-0831-1202			2'-3'	12

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0831-1203	B10-25	180 N X 140E	0-1'	11
TI-B10-SSS-0831-1204			1'-2'	16
TI-B10-SSS-0831-1205			2'-3'	7
TI-B10-SSS-0901-1206	B10-26	185 N X 145 E	0-1'	16
TI-B10-SSS-0901-1207			1'-2'	9
TI-B10-SSS-0901-1208			2'-3'	14
TI-B10-SSS-0901-1209	B10-27	180 N X 150 E	0-1'	8
TI-B10-SSS-0901-1210			1'-2'	13
TI-B10-SSS-0901-1211			2'-3'	6
TI-B10-SSS-0901-1212	B10-28	185 N X 155 E	0-1'	8
TI-B10-SSS-0901-1213			1'-2'	10
TI-B10-SSS-0901-1214			2'-3'	11
TI-B10-SSS-0901-1215	B10-29	180 N X 160 E	0-1'	7
TI-B10-SSS-0901-1216			1'-2'	15
TI-B10-SSS-0901-1217			2'-3'	7
TI-B10-SSS-0901-1218	B10-30	175 N X 155 E	0-1'	8
TI-B10-SSS-0901-1219			1'-2'	18
TI-B10-SSS-0901-1220			2'-3'	9
TI-B10-SSS-0901-1221	B10-31	175 N X 165 E	0-1'	9
TI-B10-SSS-0901-1222			1'-2'	16
TI-B10-SSS-0901-1223			2'-3'	5
TI-B10-SSS-0901-1224	B10-32	180 N X 170 E	0-1'	8
TI-B10-SSS-0901-1225			1'-2'	7
TI-B10-SSS-0901-1226			2'-3'	19
TI-B10-SSS-0901-1227	B10-33	175 N X 170 E	0-1'	11
TI-B10-SSS-0901-1228			1'-2'	9
TI-B10-SSS-0901-1229			2'-3'	10
TI-B10-SSS-0901-1230	B10-34	170 N X 170 E	0-1'	14
TI-B10-SSS-0901-1231			1'-2'	16
TI-B10-SSS-0901-1232			2'-3'	18
TI-B10-SSS-0906-1233	B10-35	130 N X 150 E	0-1'	6
TI-B10-SSS-0906-1234			1'-2'	13
TI-B10-SSS-0906-1235			2'-3'	9
TI-B10-SSS-0906-1236	B10-36	125 N X 145 E	0-1'	13
TI-B10-SSS-0906-1237			1'-2'	12
TI-B10-SSS-0906-1238			2'-3'	11

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0906-1239	B10-37	120 N X 150 E	0-1'	14
TI-B10-SSS-0906-1240			1'-2'	20
			2'-3'	8
TI-B10-SSS-0906-1241	B10-38	130 N X 140 E	0-1'	10
			1'-2'	R
			2'-3'	R
TI-B10-SSS-0906-1242	B10-39	120 N X 140 E	0-1'	13
TI-B10-SSS-0906-1243			1'-2'	10
TI-B10-SSS-0906-1244			2'-3'	11
TI-B10-SSS-0906-1245	B10-40	115 N X 145 E	0-1'	14
TI-B10-SSS-0906-1246			1'-2'	12
TI-B10-SSS-0906-1247			2'-3'	17
TI-B10-SSS-0906-1248	B10-41	110 N X 140 E	0-1'	14
TI-B10-SSS-0906-1249			1'-2'	11
TI-B10-SSS-0906-1250			2'-3'	12
TI-B10-SSS-0906-1251	B10-42	115 N X 135 E	0-1'	13
TI-B10-SSS-09061252			1'-2'	16
TI-B10-SSS-0906-1253			2'-3'	7
TI-B10-SSS-0906-1254	B10-43	120 N X 130 E	0-1'	8
TI-B10-SSS-0906-1255			1'-2'	12
TI-B10-SSS-0906-1256			2'-3'	11
TI-B10-SSS-0906-1257	B10-44	110 N X 130 E	0-1'	8
TI-B10-SSS-0906-1258			1'-2'	12
TI-B10-SSS-0906-1259			2'-3'	15
TI-B10-SSS-0906-1260	B10-45	110 N X 150 E	0-1'	12
TI-B10-SSS-0906-1261			1'-2'	11
TI-B10-SSS-0906-1262			2'-3'	8
	B10-46		0-1'	R
			1'-2'	R
			2'-3'	R
TI-B10-SSS-0907-1263	B10-47	100 N X 140 E	0-1'	5
TI-B10-SSS-0907-1264			1'-2'	12
TI-B10-SSS-0907-1265			2'-3'	7
TI-B10-SSS-0907-1266	B10-48	95 N X 145 E	0-1'	4
TI-B10-SSS-0907-1267			1'-2'	8
TI-B10-SSS-0907-1268			2'-3'	15

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0907-1269	B10-49	90 N X 140 E	0-1'	15
TI-B10-SSS-0907-1270			1'-2'	12
TI-B10-SSS-0907-1271			2'-3'	12
TI-B10-SSS-0907-1272	B10-50	85 N X 145 E	0-1'	10
TI-B10-SSS-0907-1273			1'-2'	11
TI-B10-SSS-0907-1274			2'-3'	15
TI-B10-SSS-0907-1275	B10-51	80 N X 150 E	0-1'	9
TI-B10-SSS-0907-1276			1'-2'	8
TI-B10-SSS-0907-1277			2'-3'	23
TI-B10-SSS-0907-1278	B10-52	80 N X 140 E	0-1'	13
TI-B10-SSS-0907-1279			1'-2'	12
TI-B10-SSS-0907-1280			2'-3'	20
TI-B10-SSS-0907-1281	B10-53	75 N X 145 E	0-1'	8
TI-B10-SSS-0907-1282			1'-2'	13
TI-B10-SSS-0907-1283			2'-3'	10
TI-B10-SSS-0907-1284	B10-54	80 N X 130 E	0-1'	7
TI-B10-SSS-0907-1285			1'-2'	11
TI-B10-SSS-0907-1286			2'-3'	11
TI-B10-SSS-0907-1287	B10-55	80 N X 120 E	0-1'	8
TI-B10-SSS-0907-1288			1'-2'	9
TI-B10-SSS-0907-1289			2'-3'	7
TI-B10-SSS-0907-1290	B10-56	85 N X 125 E	0-1'	5
TI-B10-SSS-0907-1291			1'-2'	7
TI-B10-SSS-0907-1292			2'-3'	11
TI-B10-SSS-0907-1293	B10-57	90 N X 130 E	0-1'	13
TI-B10-SSS-0907-1294			1'-2'	11
TI-B10-SSS-0907-1295			2'-3'	13
TI-B10-SSS-0907-1296	B10-58	95 N X 125 E	0-1'	11
TI-B10-SSS-0907-1297			1'-2'	6
TI-B10-SSS-0907-1298			2'-3'	16
TI-B10-SSS-0907-1299	B10-59	90 N X 120 E	0-1'	9
TI-B10-SSS-0907-1300			1'-2'	9
TI-B10-SSS-0907-1301			2'-3'	8
TI-B10-SSS-0907-1302	B10-60	100 N X 120 E	0-1'	11
TI-B10-SSS-0907-1303			1'-2'	6
TI-B10-SSS-0907-1304			2'-3'	11

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0908-1305	B10-61	100 N X 130 E	0-1'	12
TI-B10-SSS-0908-1306			1'-2'	6
TI-B10-SSS-0908-1307			2'-3'	4
TI-B10-SSS-0908-1308	B10-62	95N X 135 E	0-1'	12
TI-B10-SSS-0908-1309			1'-2'	7
TI-B10-SSS-0908-1310			2'-3'	6
TI-B10-SSS-0908-1311	B10-63	75 N X 135 E	0-1'	7
TI-B10-SSS-0908-1312			1'-2'	18
TI-B10-SSS-0908-1313			2'-3'	10
TI-B10-SSS-0908-1314	B10-64	75 N X 125 E	0-1'	11
TI-B10-SSS-0908-1315			1'-2'	10
TI-B10-SSS-0908-1316			2'-3'	2
TI-B10-SSS-0908-1317	B10-65	70 N X 140 E	0-1'	9
TI-B10-SSS-0908-1318			1'-2'	9
TI-B10-SSS-0908-1319			2'-3'	17
TI-B10-SSS-0908-1320	B10-66	65 N X 145 E	0-1'	4
TI-B10-SSS-0908-1321			1'-2'	6
TI-B10-SSS-0908-1322			2'-3'	10
TI-B10-SSS-0908-1323	B10-67	60 N X 140 E	0-1'	9
TI-B10-SSS-0908-1324			1'-2'	10
TI-B10-SSS-0908-1325			2'-3'	4
TI-B10-SSS-0908-1326	B10-68	55 N X 145 E	0-1'	10
TI-B10-SSS-0908-1327			1'-2'	7
TI-B10-SSS-0908-1328			2'-3'	9
TI-B10-SSS-0908-1329	B10-69	50 N X 140 E	0-1'	15
TI-B10-SSS-0908-1330			1'-2'	12
TI-B10-SSS-0908-1331			2'-3'	15
TI-B10-SSS-0908-1332	B10-70	45 N X 145 E	0-1'	9
TI-B10-SSS-0908-1333			1'-2'	2
TI-B10-SSS-0908-1334			2'-3'	17
TI-B10-SSS-0909-1335	B10-71	40 N X 140 E	0-1'	14
TI-B10-SSS-0909-1336			1'-2'	17
TI-B10-SSS-0909-1337			2'-3'	14
TI-B10-SSS-0909-1338	B10-72	35 N X 145 E	0-1'	7
TI-B10-SSS-0909-1339			1'-2'	10
TI-B10-SSS-0909-1340			2'-3'	9

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0909-1341	B10-73	25 N X 145 E	0-1'	9
TI-B10-SSS-0909-1342			1'-2'	12
TI-B10-SSS-0909-1343			2'-3'	12
TI-B10-SSS-0909-1344	B10-74	15 N X 145 E	0-1'	7
TI-B10-SSS-0909-1345			1'-2'	13
TI-B10-SSS-0909-1346			2'-3'	18
TI-B10-SSS-0909-1347	B10-75	5 N X 145 E	0-1'	4
TI-B10-SSS-0909-1348			1'-2'	7
TI-B10-SSS-0909-1349			2'-3'	3
TI-B10-SSS-0909-1350	B10-76	5 S X 145 E	0-1'	7
TI-B10-SSS-0909-1351			1'-2'	8
TI-B10-SSS-0909-1352			2'-3'	16
TI-B10-SSS-0909-1353	B10-77	5 S X 140 E	0-1'	12
TI-B10-SSS-0909-1354			1'-2'	16
TI-B10-SSS-0909-1355			2'-3'	11
TI-B10-SSS-0909-1356	B10-78	15 S X 125 E	0-1'	12
TI-B10-SSS-0909-1357			1'-2'	10
TI-B10-SSS-0909-1358			2'-3'	7
TI-B10-SSS-0909-1359	B10-79	10 S X 130 E	0-1'	14
TI-B10-SSS-0909-1360			1'-2'	18
TI-B10-SSS-0909-1361			2'-3'	7
TI-B10-SSS-0912-1503	B10-80	105N X 155 E	0-1'	7
TI-B10-SSS-0912-1504			1'-2'	10
TI-B10-SSS-0912-1505			2'-3'	25
TI-B10-SSS-0912-1506	B10-81	85 N X 155 E	0-1'	15
TI-B10-SSS-0912-1507			1'-2'	14
TI-B10-SSS-0912-1508			2'-3'	17
TI-B10-SSS-0912-1509	B10-82	95 N X 155 E	0-1'	7
TI-B10-SSS-0912-1510			1'-2'	14
TI-B10-SSS-0912-1511			2'-3'	13
TI-B10-SSS-0912-1512	B10-83	75 N X 155 E	0-1'	9
TI-B10-SSS-0912-1513			1'-2'	13
TI-B10-SSS-0912-1514			2'-3'	10
TI-B10-SSS-0912-1515	B10-84	65 N X 155 E	0-1'	5
TI-B10-SSS-0912-1516			1'-2'	11
TI-B10-SSS-0912-1517			2'-3'	13

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0912-1518	B10-85	55 N X 155 E	0-1'	6
TI-B10-SSS-0912-1519			1'-2'	13
			2'-3'	R
TI-B10-SSS-0912-1520	B10-86	60 N X 150 E	0-1'	11
TI-B10-SSS-0912-1521			1'-2'	11
TI-B10-SSS-0912-1522			2'-3'	3
TI-B10-SSS-0912-1523	B10-87	70 N X 150 E	0-1'	15
TI-B10-SSS-0912-1524			1'-2'	17
TI-B10-SSS-0912-1525			2'-3'	12
TI-B10-SSS-0912-1526	B10-88	50 N X 150 E	0-1'	4
TI-B10-SSS-0912-1527			1'-2'	10
TI-B10-SSS-0912-1528			2'-3'	16
TI-B10-SSS-0912-1529	B10-89	90 N X 150 E	0-1'	13
			1'-2'	R
			2'-3'	R
TI-B10-SSS-0912-1530	B10-90	40 N X 150 E	0-1'	9
TI-B10-SSS-0912-1531			1'-2'	9
TI-B10-SSS-0912-1532			2'-3'	7
TI-B10-SSS-0912-1533	B10-91	100 N X 150 E	0-1'	14
TI-B10-SSS-0912-1534			1'-2'	10
TI-B10-SSS-0912-1535			2'-3'	13
TI-B10-SSS-0912-1536	B10-92	45 N X 155 E	0-1'	9
TI-B10-SSS-0912-1537			1'-2'	15
			2'-3'	R
TI-B10-SSS-0912-1538	B10-93	50 N X 160 E	0-1'	8
TI-B10-SSS-0912-1539			1'-2'	7
TI-B10-SSS-0912-1540			2'-3'	7
TI-B10-SSS-0912-1541	B10-94		0-1'	8
TI-B10-SSS-0912-1542			1'-2'	7
TI-B10-SSS-0912-1543			2'-3'	8
TI-B10-SSS-0912-1544	B10-95	45 N X 165 E	0-1'	10
TI-B10-SSS-0912-1545			1'-2'	7
TI-B10-SSS-0912-1546			2'-3'	6
TI-B10-SSS-0913-1547	B10-96	30 N X 150 E	0-1'	8
TI-B10-SSS-0913-1548			1'-2'	11
TI-B10-SSS-0913-1549			2'-3'	11

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0912-1550	B10-97	40 N X 160 E	0-1'	9
TI-B10-SSS-0912-1551			1'-2'	9
TI-B10-SSS-0912-1552			2'-3'	17
TI-B10-SSS-0913-1553	B10-98	20 N X 150 E	0-1'	12
TI-B10-SSS-0913-1554			1'-2'	8
TI-B10-SSS-0913-1555			2'-3'	12
TI-B10-SSS-0912-1556	B10-99	35N X 165 E	0-1'	11
TI-B10-SSS-0912-1557			1'-2'	14
TI-B10-SSS-0912-1558			2'-3'	10
TI-B10-SSS-0913-1559	B10-100	10 N X 150 E	0-1'	13
TI-B10-SSS-0913-1560			1'-2'	11
TI-B10-SSS-0913-1561			2'-3'	9
TI-B10-SSS-0913-1562	B10-101	30 N X 160 E	0-1'	9
TI-B10-SSS-0913-1563			1'-2'	11
TI-B10-SSS-0913-1564			2'-3'	3
TI-B10-SSS-0913-1565	B10-102	5 N X 155 E	0-1'	5
TI-B10-SSS-0913-1566			1'-2'	13
TI-B10-SSS-0913-1567			2'-3'	13
TI-B10-SSS-0913-1568	B10-103	25 N X 165 E	0-1'	10
TI-B10-SSS-0913-1569			1'-2'	11
TI-B10-SSS-0913-1570			2'-3'	9
TI-B10-SSS-0913-1571	B10-104	15 N X 155 E	0-1'	7
TI-B10-SSS-0913-1572			1'-2'	13
TI-B10-SSS-0913-1573			2'-3'	12
TI-B10-SSS-0913-1574	B10-105	15 N X 165 E	0-1'	8
TI-B10-SSS-0913-1575			1'-2'	6
TI-B10-SSS-0913-1576			2'-3'	7
TI-B10-SSS-0913-1577	B10-106	25 N X 155 E	0-1'	4
TI-B10-SSS-0913-1578			1'-2'	12
TI-B10-SSS-0913-1579			2'-3'	10
TI-B10-SSS-0913-1580	B10-107	5 N X 165 E	0-1'	13
TI-B10-SSS-0913-1581			1'-2'	13
TI-B10-SSS-0913-1582			2'-3'	6
TI-B10-SSS-0913-1583	B10-108	10 N X 120 E	0-1'	22
TI-B10-SSS-0913-1584			1'-2'	12
TI-B10-SSS-0913-1585			2'-3'	13

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0913-1586	B10-109	10 N X 170 E	0-1'	7
TI-B10-SSS-0913-1587			1'-2'	8
TI-B10-SSS-0913-1588			2'-3'	10
TI-B10-SSS-0913-1917	B10-110	10 N X 140 E	0-1'	18
TI-B10-SSS-0913-1918			1'-2'	12
TI-B10-SSS-0913-1919			2'-3'	18
TI-B10-SSS-0913-1920	B10-111	10 N X 160 E	0-1'	3
TI-B10-SSS-0913-1921			1'-2'	11
TI-B10-SSS-0913-1916			2'-3'	11
TI-B10-SSS-0913-1922	B10-112	0 X 140 E	0-1'	10
TI-B10-SSS-0913-1923			1'-2'	15
TI-B10-SSS-0913-1924			2'-3'	12
TI-B10-SSS-0913-1925	B10-113	5 S X 165 E	0-1'	8
TI-B10-SSS-0913-1926			1'-2'	11
TI-B10-SSS-0913-1927			2'-3'	R
TI-B10-SSS-0913-1928	B10-114	15 S X 115 E	0-1'	
TI [illegible] SSS-0913-1929			1'-2'	6
TI [illegible] SSS-0913-1930			2'-3'	15
TI-B10-SSS-0913-1931	B10-115	20 N X 160 E	0-1'	12
TI-B10-SSS-0913-1932			1'-2'	17
TI-B10-SSS-0913-1933			2'-3'	7
TI-B10-SSS-0914-1934	B10-116	15 S X 85 E	0-1'	12
TI-B10-SSS-0914-1935			1'-2'	11
TI-B10-SSS-0914-1936			2'-3'	10
TI-B10-SSS-0913-1937	B10-117	0 X 160 E	0-1'	6
TI-B10-SSS-0913-1938			1'-2'	32
TI-B10-SSS-0913-1939			2'-3'	13
TI-B10-SSS-0914-1940	B10-118	15 S X 75 E	0-1'	10
TI-B10-SSS-0914-1941			1'-2'	18
TI-B10-SSS-0914-1942			2'-3'	9
TI-B10-SSS-0914-1943			3-4'	9
TI-B10-SSS-0914-1944			4'-6'	5
TI-B10-SSS-0913-1945	B10-119	15 S X 145 E	0-1'	39
TI-B10-SSS-0913-1946			1'-2'	12
TI-B10-SSS-0913-1947			2'-3'	16

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0914-1948	B10-120	5 S X 50 E	0-2'	8
TI-B10-SSS-0914-1949			2'-4'	15
TI-B10-SSS-0914-1950			4'-6'	12
TI-B10-SSS-0913-1951	B10-121	15 S X 135 E	0-2'	7
TI-B10-SSS-0913-1952			2'-4'	6
TI-B10-SSS-0913-1953			4'-6'	11
TI-B10-SSS-0914-1954	B10-122	5 S X 60 E	0-2'	11
TI-B10-SSS-0914-1955			2'-4'	16
TI-B10-SSS-0914-1956			4'-6'	8
TI-B10-SSS0914-1957	B10-123	15 S X 105 E	0-2'	12
TI-B10-SSS-0914-1958			2'-4'	18
TI-B10-SSS-0914-1959			4'-6'	11
TI-B10-SSS-0914-1960	B10-124	5 S X 70 E	0-2'	7
TI-B10-SSS-0914-1961			2'-4'	10
TI-B10-SSS-0914-1962			4'-6'	10
TI-B10-SSS-0914-1963	B10-125	15 S X 95 E	0-2'	19
TI-B10-SSS-0914-1964			2'-4'	27
TI-B10-SSS-0914-1965			4'-6'	14
TI-B10-SSS-0914-1966	B10-126	5 S X 120 E	0-2'	10
TI-B10-SSS-0914-1967			2'-4'	14
TI-B10-SSS-0915-1968			4'-6'	8
TI-B10-SSS-0914-1969	B10-127	0 X 10 E	0-2'	12
TI-B10-SSS-0914-1970			2'-4'	8
TI-B10-SSS-0914-1971			4'-6'	17
TI-G10-SSS-0914-1972	B10-128	5 S X 110E	0-2'	9
TI-B10-SSS-0914-1973			2'-4'	8
TI-B10-SSS-0914-1974			4'-6'	R
TI-B10-SSS-0914-1975	B10-129	15 S X 15 E	0-2'	14
TI-B10-SSS-0914-1976			2'-4'	R
TI-B10-SSS-0914-1977			4'-6'	15
TI-B10-SSS-0915-1978	B10-130	5 S X 115 E	0-2'	46
TI-B10-SSS-0915-1979			2'-4'	17
TI-B10-SSS-0915-1980			4'-6'	7
TI-B10-SSS-0914-1981	B10-131	5 S X 25 E	0-2'	6
TI-B10-SSS-0914-1982			2'-4'	7
TI-B10-SSS-0914-2820			4'-6'	R

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0915-1983	B10-132	5 S X 105 E	0-2'	15
TI-B10-SSS-0915-1984			2'-4'	18
TI-B10-SSS-0915-1985			4'-6'	12
TI-B10-SSS-0914-1986	B10-133	5 S X 40 E	0-2'	7
TI-B10-SSS-0914-1987			2'-4'	5
TI-B10-SSS-0914-1988			4'-6'	7
TI-B10-SSS-0915-1989	B10-134	5 S X 85 E	0-2'	7
TI-B10-SSS-0915-1990			2'-4'	8
TI-B10-SSS-0915-1991			4'-6'	5
TI-B10-SSS-0914-1992	B10-135	5 S X 80 E	0-2'	3
TI-B10-SSS-0914-1993			2'-4'	11
TI-B10-SSS-0914-1994			4'-6'	R
TI-B10-SSS-0915-1995	B10-136	20 N X 130 E	0-2'	11
TI-B10-SSS-0915-1996			2'-4'	6
TI-B10-SSS-0915-1997			4'-6'	8
TI-B10-SSS-0914-1998	B10-137	5 S X 95 E	0-2'	10
TI-B10-SSS-0914-1999			2'-4'	16
TI-B10-SSS-0914-2000			4'-6'	19
TI-B10-SSS-0915 2001	B10-138	30 N X 130 E	0-2'	11
TI-B10-SSS-0915-2002			2'-4'	11
TI-B10-SSS-0915-2003			4'-6'	R
TI-B10-SSS-0914-2004	B10-139	5 S X 105 E	0-2'	14
TI-B10-SSS-0914-2005			2'-4'	22
TI-B10-SSS-0914-2006			4'-6'	10
TI-B10-S[illegible]-0915-2007	B10-140	40 N X 130 E	0-2'	10
TI-B10-S[illegible]-09 2013			2'-4'	13
TI-B10-SSS-09 2008			4'-6'	8
TI-B10-SSS-0915-2014	B10-141	0 X 120 E	0-2'	6
TI-B10-SSS-0915-2009			2'-4'	13
TI-B10-SSS-0915-2015			4'-6'	11
TI-B10-SSS-0916-2010	B10-142	50 N X 130 E	0-2'	10
TI-B10-SSS-0916-2011			2'-4'	13
TI-B10-SSS-0916-2016			4'-6'	4
TI-B10-SSS-0915-2012	B10-143	5 N X 125 E	0-2'	17
TI-B10-SSS-0916-2017			2'-4'	11
TI-B10-SSS-0916-2018			4'-6'	5

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0916-2019	B10-144	60 N X 130 E	0-2'	8
TI-B10-SSS-0916-2020			2'-4'	19
TI-B10-SSS-0916-2021			4'-6'	10
TI-B10-SSS-0915-2022	B10-145	5 N X 115 E	0-2'	6
TI-B10-SSS-0916-2024			2'-4'	14
TI-B10-SSS-0915-2023			4'-6'	3
TI-B10-SSS-0916-2025	B10-146	70 N X 130 E	0-2'	11
TI-B10-SSS-0916-2026			2'-4'	14
TI-B10-SSS-0916-2027			4'-6'	10
TI-B10-SSS-0915-2028	B10-147	10 N X 130 E	0-2'	9
TI-B10-SSS-0915-2029			2'-4'	10
TI-B10-SSS-0915-2030			4'-6'	8
TI-B10-SSS-0916-2031	B10-148	65 N X 135 E	0-2'	11
TI-B10-SSS-0916-2032			2'-4'	10
TI-B10-SSS-0916-2033			4'-6'	10
TI-B10-SSS-0915-2034	B10-149	0 X 130 E	0-2'	21
TI-B10-SSS-0915-2035			2'-4'	9
TI-B10-SSS-0915-2036			4'-6'	7
TI-B10-SSS-0916-2037	B10-150	45 N X 135 E	0-2'	10
TI-B10-SSS-0916-2038			2'-4'	6
TI-B10-SSS-0916-2039			4'-6'	11
TI-B10-SSS-0915-2040	B10-151	15 N X 125 E	0-2'	21
TI-B10-SSS-0915-2041			2'-4'	10
TI-B10-SSS-0915-2042			4'-6'	6
TI-B10-SSS-0916-2043	B10-152	25 N X 130 E	0-2'	7
TI-B10-SSS-0916-2044			2'-4'	20
			4'-6'	R
TI-B10-SSS-0915-2045	B10-153	25 N X 125 E	0-2'	7
TI-B10-SSS-0915-2046			2'-4'	11
TI-B10-SSS-0915-2047			4'-6'	9
TI-B10-SSS-0917-2048	B10-154	5 N X 85 E	0-2'	14
TI-B10-SSS-0917-2049			2'-4'	14
TI-B10-SSS-0917-2050			4'-6'	20
TI-B10-SSS-0915-2051	B10-155	30 N X 120 E	0-2'	9
TI-B10-SSS-09152052			2'-4'	7
TI-B10-SSS-0915-2053			4'-6'	11

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS	B10-156	0 X 80 E	0-2'	19
TI-B10-SSS-0917-2064			2'-4'	17
			4'-6'	R
TI-B10-SSS-0915-2055	B10-157	35 N X 125 E	0-2'	7
TI-B10-SSS-0915-2056			2'-4'	11
TI-B10-SSS-0915-2057			4'-6'	15
TI-B10-SSS-0917-2058	B10-158	5 N X 75 E	0-2'	11
TI-B10-SSS-0917-2059			2'-4'	11
TI-B10-SSS-0917-2060			4'-6'	14
TI-B10-SSS-0916-2061	B10-159	40 N X 120 E	0-2'	18
TI-B10-SSS-0916-2062			2'-4'	22
TI-B10-SSS-0916-2063			4'-6'	8
TI-B10-SSS-0917-2064	B10-160	0 N X 70 E	0-2'	9
TI-B10-SSS-0917-2065			2'-4'	7
TI-B10-SSS-0917-2066			4'-6'	9
TI-B10-SSS-0916-2067	B10-161	55 N X 125 E	0-2'	6
TI-B10-SSS-0916-2068			2'-4'	13
			4'-6'	R
TI-B10-SSS-0917-2069	B10-162	0 X 60 E	0-2'	10
TI-B10-SSS-0917-2070			2'-4'	13
TI-B10-SSS-0917-2071			4'-6'	13
TI-B10-SSS-0916-2072	B10-163	60 N X 120 E	0-2'	12
TI-B10-SSS-0916-2073			2'-4'	13
TI-B10-SSS-0916-2074			4'-6'	13
TI-B10-SSS-0917-2075	B10-164	5 N X 55 E	0-2'	16
TI-B10-SSS-0917-2076			2'-4'	10
TI-B10-SSS-0917-2077			4'-6'	10
TI-B10-SSS-0916-2078	B10-165	65 N X 125 E	0-2'	18
TI-B10-SSS-0916-2079			2'-4'	7
TI-B10-SSS-0916-2080			4'-6'	10
TI-B10-SSS-0917-2081	B10-166	0 X 40 E	0-2'	12
TI-B10-SSS-0917-2082			2'-4'	9
TI-B10-SSS-0917-2083			4'-6'	14
TI-B10-SSS-0916-2084	B10-167	70 N X 120 E	0-2'	13
TI-B10-SSS-0916-2085			2'-4'	8
TI-B10-SSS-0916-2086			4'-6'	13

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0919-2087	B10-168	132 N X 120 E	0-2'	15
TI-B10-SSS-0919-2088			2'-4'	14
TI-B10-SSS-0919-2089			4'-6'	R
TI-B10-SSS-0916-2090	B10-169	55 N X 135 E	0-2'	13
TI-B10-SSS-0916-2091			2'-4'	15
			4'-6'	R
TI-B10-SSS-0919-2092	B10-170	135 N X 125 E	0-2'	27
TI-B10-SSS-0919-2093			2'-4'	22
TI-B10-SSS-0919-2094			4'-6'	11
TI-B10-SSS-0917-2095	B10-171	20 N X 60 E	0-2'	10
TI-B10-SSS-0917-2096			2'-4'	10
TI-B10-SSS-0917-2097			4'-6'	9
TI-B10-SSS-0919-2098	B10-172	140 N X 120 E	0-2'	7
TI-B10-SSS-0919-2099			2'-4'	16
TI-B10-SSS-0919-2100			4'-6'	R
TI-B10-SSS-0917-2101	B10-173	15 N X 65E	0-2'	11
TI-B10-SSS-0917-2102			2'-4'	11
TI-B10-SSS-0917-2103			4'-6'	11
TI-B10-SSS-0919-2104	B10-174	145 N X 125 E	0-2'	27
TI-B10-SSS-0919-2105			2'-4'	16
TI-B10-SSS-0919-2106			4'-6'	R
TI-B10-SSS-0917-2107	B10-175	10 N X 60 E	0-2'	12
TI-B10-SSS-0917-2108			2'-4'	12
TI-B10-SSS-0917-2109			4'-6'	13
TI-B10-SSS	B10-176	150N X 120E	0-2'	122
TI-B10-SSS-0919-2110			2'-4'	20
TI-B10-SSS-0919-2111			4'-6'	18
TI-B10-SSS-0917-2112	B10-177	0 NX 50 E	0-2'	7
TI-B10-SSS-0917-2113			2'-4'	17
TI-B10-SSS-0917-2114			4'-6'	9
TI-B10-SSS-0919-2115	B10-178	140 N X 130 E	0-2'	15
TI-B10-SSS-0919-2116			2'-4'	7
TI-B10-SSS-0919-2117			4'-6'	R
TI-B10-SSS-0917-2118	B10-179	15 N X 45 E	0-2'	12
TI-B10-SSS-0917-2119			2'-4'	13
TI-B10-SSS-0917-2120			4'-6'	10

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0919-2121	B10-180	135 N X 135 E	0-2'	11
TI-B10-SSS-0919-2122			2'-4'	12
TI-B10-SSS-0919-2123			4'-6'	11
TI-B10-SSS-0917-2124	B10-181	10 N X 40 E	0-2'	24
TI-B10-SSS-0917-2125			2'-4'	21
TI-B10-SSS-0917-2126			4'-6'	8
TI-B10-SSS-0919-2127	B10-182	150 N X 130 E	0-2'	13
TI-B10-SSS-0919-2128			2'-4'	14
TI-B10-SSS-0919-2129			4'-6'	11
TI-B10-SSS-0917-2130	B10-183	10 N X 50 E	0-2'	29
TI-B10-SSS-0917-2131			2'-4'	12
TI-B10-SSS-0917-2132			4'-6'	15
TI-B10-SSS 0919-2133	B10-184	150 N X 140 E	0-2'	7
TI-B10-SSS-0919-2134			2'-4'	9
TI-B10-SSS-0919-2135			4'-6'	9
TI-B10-SSS-0920-2136	B10-185	135 N X 145 E	0-2'	11
TI-B10-SSS-0920-2137			2'-4'	11
TI-B10-SSS-0920-2138			4'-6'	10
TI-B10-SSS-0920-2174	B10-186	145 N X 145 E	0-2'	13
TI-B10-SSS-0920-2175			2'-4'	14
TI-B10-SSS-0920-2139			4'-6'	13
TI-B10-SSS-0920-2140	B10-187	135 N X 155 E	0-2'	19
TI-B10-SSS-0920-2141			2'-4'	13
TI-B10-SSS-0920-2142			4'-6'	11
TI-B10-SSS-0920-2143	B10-188	150 N X 150 E	0-2'	20
TI-B10-SSS-0920-2144			2'-4'	16
TI-B10-SSS-0920-2145			4'-6'	19
TI-B10-SSS-0920-2176	B10-189	140 N X 140 E	0-2'	20
TI-B10-SSS-0920-2177			2'-4'	7
TI-B10-SSS-0920-2146			4'-6'	16
TI-B10-SSS-0920-2147	B10-190	145 N X 155 E	0-2'	13
TI-B10-SSS-0920-2148			2'-4'	12
			4'-6'	R
TI-B10-SSS-0920-2178	B10-191	145 N X 135 E	0-2'	5
TI-B10-SSS-0920-2149			2'-4'	13
TI-B10-SSS-0920-2150			4'-6'	6

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0920-2151	B10-192	140 N X 150 E	0-2'	14
			2'-4'	R
TI-B10-SSS-0920-2152			4'-6'	11
TI-B10-SSS-0920-2153	B10-193	70 N X 10 E	0-2'	18
TI-B10-SSS-0920-2154			2'-4'	13
TI-B10-SSS-0920-2155			4'-6'	16
TI-B10-SSS-0920-2156	B10-194	55 N X 15 E	0-2'	6
TI-B10-SSS-0920-2157			2'-4'	7
TI-B10-SSS-0920-2158			4'-6'	4
TI-B10-SSS-0920-2159	B10-195	60 N X 10 E	0-2'	10
TI-B10-SSS-0920-2160			2'-4'	11
TI-B10-SSS-0920-2161			4'-6'	10
TI-B10-SSS-0920-2162	B10-196	45 N X 15 E	0-2'	13
TI-B10-SSS-0920-2163			2'-4'	15
TI-B10-SSS-0920-2164			4'-6'	8
TI-B10-SSS-0920-2165	B10-197	50 N X 10 E	0-2'	16
TI-B10-SSS-0920-2166			2'-4'	6
TI-B10-SSS-0920-2167			4'-6'	10
TI-B10-SSS-0920-2168	B10-198	35 N X 15 E	0-2'	7
TI-B10-SSS-0920-2169			2'-4'	15
TI-B10-SSS-0920-2170			4'-6'	11
TI-B10-SSS-0920-2171	B10-199	40 N X 10 E	0-2'	10
TI-B10-SSS-0920-2172			2'-4'	9
TI-B10-SSS-0920-2173			4'-6'	9
TI-B10-SSS-0920-2447	B10-200	30 N X 10 E	0-2'	16
TI-B10-SSS-0920-2448			2'-4'	4
TI-B10-SSS-0920-2449			4'-6'	6
TI-B10-SSS-0920-2450	B10-201	15 N X 15 E	0 2'	17
TI-B10-SSS-0920-2451			2'-4'	11
TI-B10-SSS-0920-2452			4'-6'	16
TI-B10-SSS-0920-2453	B10-202	25 N X 15 E	0-2'	10
TI-B10-SSS-0920-2454			2'-4'	13
TI-B10-SSS-0920-2455			4'-6'	2
TI-B10-SSS 0920-2456	B10-203	10 N X 10 E	0-2'	7
TI-B10-SSS-0920-2457			2'-4'	11
			4'-6'	R

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0920-2458	B10-204	20 N X 10 E	0-2'	7
TI-B10-SSS-0920-2459			2'-4'	14
TI-B10-SSS-0920-2460			4'-6'	8
TI-B10-SSS-0920-2461	B10-205	5 N X 15 E	0-2'	14
TI-B10-SSS-0920-2462			2'-4'	17
TI-B10-SSS-0920-2463			4'-6'	12
TI-B10-SSS-0921-2464	B10-206	45 N X 175 E	0-2'	17
TI-B10-SSS-0921-2465			2'-4'	16
TI-B10-SSS-0921-2466			4'-6'	13
TI-B10-SSS-0921-2467	B10-207	50 N X 180 E	0-2'	10
TI-B10-SSS-0921-2468			2'-4'	16
TI-B10-SSS-0921-2469			4'-6'	4
TI-B10-SSS-0921-2470	B10-208	50 N X 170 E	0-2'	6
TI-B10-SSS-0921-2471			2'-4'	17
TI-B10-SSS-0921-2472			4'-6'	14
TI-B10-SSS-0921-2473	B10-209	50 N X 190 E	0-2'	7
TI-B10-SSS-0921-2474			2'-4'	9
TI-B10-SSS-0921-2475			4'-6'	6
TI-B10-SSS-0921-2476	B10-210	35 N X 175 E	0-2'	4
TI-B10-SSS-0921-2477			2'-4'	13
TI-B10-SSS--0921-2478			4'-6'	15
TI-B10-SSS-0921-2479	B10-211	45 N X 185 E	0-2'	8
TI-B10-SSS-0921-2480			2'-4'	8
TI-B10-SSS-0921-2481			4'-6'	7
TI-B10-SSS-0921-2482	B10-212	40 N X 170 E	0-2'	9
TI-B1- =SSS-0921-2483			2'-4'	8
TI-B10-SSS-0921-2484			4'-6'	9
TI-B10-SSS-0921-2485	B10-213	40 N X 187 E	0-2'	14
TI-B10-SSS-0921-2486			2'-4'	15
TI-B10-SSS-0921-2487			4'-6'	6
TI-B10-SSS-0921-2488	B10-214	30 N X 170 E	0-2'	10
TI-B10-SSS-0921-2489			2'-4'	24
TI-B10-SSS-0921-2490			4'-6'	13
TI-B10-SSS-0921-2491	B10-215	35 N X 185 E	0-2'	5
TI-B10-SSS-0921-2492			2'-4'	9
TI-B10-SSS-0921-2493			4'-6'	23

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0921-2494	B10-216	25 N X 175 E	0-2'	7
TI-B10-SSS-0921-2495			2'-4'	6
TI-B10-SSS-0921-2496			4'-6'	14
TI-B10-SSS-0921-2497	B10-217	40 N X 180 E	0-2'	5
TI-B10-SSS-0921-2498			2'-4'	10
TI-B10-SSS-0921-2499			4'-6'	13
TI-B10-SSS-0921-2500	B10-218	20 N X 170 E	0-2'	6
TI-B10-SSS-0921-2501			2'-4'	8
TI-B10-SSS-0921-2502			4'-6'	6
TI-B10-SSS-0921-2503	B10-219	30 N X 190 E	0-2'	6
TI-B10-SSS-0921-2504			2'-4'	5
TI-B10-SSS-0921-2505			4'-6'	9
TI-B10-SSS-0921-2506	B10-220	15 N X 175 E	0-2'	3
TI-B10-SSS-0921-2507			2'-4'	8
TI-B10-SSS-0921-2508			4'-6'	13
TI-B10-SSS-0921-2509	B10-221	30 N X 180 E	0-2'	12
TI-B10-SSS-0921-2510			2'-4'	9
TI-B10-SSS-0921-2511			4'-6'	8
TI-B10-SSS-0921-2512	B10-222	20 N X 180 E	0-2'	12
TI-B10-SSS-0921-2513			2'-4'	10
TI-B10-SSS-0921-2514			4'-6'	14
TI-B10-SSS-0921-2515	B10-223	25 N X 185 E	0-2'	10
TI-B10-SSS-0921-2516			2'-4'	11
TI-B10-SSS-0921-2517			4'-6'	7
TI-B10-SSS-0922-2518	B10-224	5 N X 175 E	0-2'	14
TI-B10-SSS-0922-2519			2'-4'	12
TI-B10-SSS-0922-2520			4'-6'	4
TI-B10-SSS-0921-2521	B10-225	20 N X 190 E	0-2'	8
TI-B10-SSS-0921-2522			2'-4'	10
TI-B10-SSS-0921-2523			4'-6'	8
TI-B10-SSS-0922-2524	B10-226	0 X 180 E	0-2'	10
TI-B10-SSS-0922-2525			2'-4'	9
TI-B10-SSS-0922-2526			4'-6'	10
TI-B10-SSS-0921-2527	B10-227	10 N X 190 E	0-2'	8
TI-B10-SSS-0921-2528			2'-4'	9
TI-B10-SSS-0921-2529			4'-6'	7

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0922-2530	B10-228	105 N X 25 E	0-2'	7
TI-B10-SSS-0922-2531			2'-4'	12
TI-B10-SSS-0922-2532			4'-6'	6
TI-B10-SSS-0921-2533	B10-229	15 N X 185 E	0-2'	14
TI-B10-SSS-0921-2534			2'-4'	12
TI-B10-SSS-0921-2535			4'-6'	8
TI-B10-SSS-0922-2536	B10-230	100 N X 20 E	0-2'	12
TI-B10-SSS-0922-2537			2'-4'	13
TI-B10-SSS-0922-2538			4'-6'	9
TI-B10-SSS-0922-2539	B10-231	5 N X 185 E	0-2'	10
TI-B10-SSS-0922-2540			2'-4'	11
TI-B10-SSS-0922-2541			4'-6'	10
TI-B10-SSS-0922-2542	B10-232	90 N X 20 E	0-2'	12
TI-B10-SSS-0922-2543			2'-4'	5
TI-B10-SSS-0922-2544			4'-6'	11
TI-B10-SSS-0922-2545	B10-233	0 X 190 E	0-2'	12
TI-B10-SSS-0922-2546			2'-4'	9
TI-B10-SSS-0922-2547			4'-6'	9
TI-B10-SSS-0922-2548	B10-234	105 N X 20 E	0-2'	6
TI-B10-SSS-0921-2549			2'-4'	4
TI-B10-SSS-0922-2550			4'-6'	9
TI-B10-SSS-0922-2551	B10-235	10 N X 180 E	0-2'	9
TI-B10-SSS-0922-2552			2'-4'	9
TI-B10-SSS-0922-2553			4'-6'	9
TI-B10-SSS-0922-2554	B10-236	90 N X 10 E	0-2'	22
TI-B10-SSS-0922-2555			2'-4'	18
TI-B10-SSS-0922-2556			4'-6'	20
TI-B10-SSS-0922-2557	B10-237	10 N X 110 E	0-2'	15
			2'-4'	R
			4'-6'	R
TI-B10-SSS-0923-2558	B10-238	100 N X 10 E	0-2'	7
			2'-4'	R
			4'-6'	R
TI-B10-SSS-0922-2559	B10-239	15 N X 105 E	0-2'	5
TI-B10-SSS-0922-2560			2'-4'	14
TI-B10-SSS-0922-2561			4'-6'	10

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-0923-2562	B10-240	80 N X 10 E	0-2'	17
TI-B10-SSS-0923-2563			2'-4'	15
TI-B10-SSS-0923-2564			4'-6'	20
TI-B10-SSS-0922-2565	B10-241	0 X 110 E	0-2'	12
TI-B10-SSS-0922-2566			2'-4'	8
			4'-6'	R
TI-B10-SSS-0923-2567	B10-242	5 N X 45 E	0-2'	20
TI-B10-SSS-0923-2568			2'-4'	13
TI-B10-SSS-0923-2569			4'-6'	12
TI-B10-SSS-0922-2570	B10-243	0 X 90 E	0-2'	10
TI-B10-SSS-0922-2571			2'-4'	8
TI-B10-SSS-0922-2572			4'-6'	15
TI-B10-SSS-0923-2573	B10-244	0 X 30 E	0-2'	13
TI-B10-SSS-0923-2574			2'-4'	11
TI-B10-SSS-0923-2575			4'-6'	12
TI-B10-SSS-0922-2576	B10-245	20 N X 100 E	0-2'	12
TI-B10-SSS-0922-2577			2'-4'	6
TI-B10-SSS-0922-2578			4'-6'	8
TI-B10-SSS-1004-2579	B10-246	5 S X 75 E	0-1'	15
TI-B10-SSS-1004-2580			1-2'	18
TI-B10-SSS-1004-2581			2-3'	6
TI-B10-SSS-1004-2582			3-4'	9
TI-B10-SSS-1004-2583			4-5'	12
TI-B10-SSS-1004-2584			5-6'	7
TI-B10-SSS-0923-2585	B10-247	5 N X 65 E	0-2'	11
TI-B10-SSS-0923-2586			2'-4'	17
TI-B10-SSS-0923-2587			4-6'	10
TI-B10-SSS-1004-2588	B10-248	5 S X 55 E	0-1'	6
TI-B10-SSS-1004-2589			1'-2'	12
TI-B10-SSS-1004-2590			2-3'	17
TI-B10-SSS-1004-2591			3-4'	14
TI-B10-SSS-1004-2592			4-5'	16
TI-B10-SSS-1004-2593			5-6'	8
TI-B10-SSS-1004-2597	B10-250	5 S X 45 E	0-1'	8
TI-B10-SSS-1004-2598			1-2'	8
TI-B10-SSS-1004-2599			2-3'	6
TI-B10-SSS-1004-2600			3-4'	21
TI-B10-SSS-1004-2601			4-5'	9

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1004-2602	B10-250	5 S X 45 E	5-6'	10
TI-B10-SSS-0923-2603	B10-251	15 S X 55 E	0-2'	17
TI-B10-SSS-0923-2604			2-4'	14
TI-B10-SSS-0923-2605			4-6'	10
TI-B10-SSS-1004-2606	B10-252	80 N X 180 E	0-1'	12
TI-B10-SSS-1004-2607			1'-2'	11
TI-B10-SSS-1004-2608			2-3'	11
TI-B10-SSS-1004-2609			3-4'	13
TI-B10-SSS-1004-2610			4-5'	11
TI-B10-SSS-1004-2611			5-6'	10
TI-B10-SSS-0923-2612	B10-253	15 S X 60 E	0-2'	9
TI-B10-SSS-0923-2613			2-4'	10
TI-B10-SSS-0923-2614			4-6'	5
TI-B10-SSS-1004-1615	B10-254	75 N X 175 E	0-1'	9
TI B10-SSS-1004-2616			1'-2'	12
TI-B10-SSS-1004-2617			2-3'	9
TI-B10-SSS-1004-2618			3-4'	13
TI-B10-SSS-1004-2619			4-5'	11
TI-B10-SSS-1004-2620			5-6'	13
TI-B10-SSS-0923-2621	B10-255	15 S X 45 E	0-2'	12
TI-B10-SSS-0923-2622			2-4'	15
TI-B10-SSS-0923-2623			4-6'	8
TI-B10-SSS-1004-2624	B10-256	75 N X 185 E	0-1'	7
TI-B10-SSS-1004-2625			1'-2'	10
TI-B10-SSS-1004-2626			2-3'	12
TI-B10-SSS-1004-2627			3-4'	13
TI-B10-SSS-1004-2628			4-5'	13
TI-B10-SSS-1004-2629			5-6'	10
TI-B10-SSS-0923-2630	B10-257	20 S X 50 E	0-2'	26
TI-B10-SSS-0923-2631			2-4'	16
TI-B10-SSS-0923-2632			4-6'	8
TI-B10-SSS-1004-2633	B10-258	70 N X 180 E	0-1'	5
TI-B10-SSS-1004-2634			1'-2'	14
TI-B10-SSS-1004-2635			2-3'	8
TI-B10-SSS-1004-2636			3-4'	9
TI-B10-SSS-1004-2637			4-5'	6
			5-6'	R

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Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1004-2638	B10-259	55 N X 185 E	0-1'	13
TI-B10-SSS-1004-2639			1'-2'	10
TI-B10-SSS-1004-2640			2-3'	10
TI-B10-SSS-1004-2641			3-4'	8
TI-B10-SSS-1004-2642			4-5'	18
TI-B10-SSS-1004-2643			5-6'	4
TI-B10-SSS-1005-2644	B10-260	80 N X 190 E	0-1'	12
TI-B10-SSS-1005-2645			1'-2'	10
TI-B10-SSS-1005-2646			2-3'	6
TI-B10-SSS-1005-2647			3-4'	7
			4-5'	R
			5-6'	R
TI-B10-SSS-1004-2648	B10-261	65 N X 185 E	0-1'	6
TI-B10-SSS-1004-2649			1'-2'	6
TI-B10-SSS-1004-2650			2-3'	16
TI-B10-SSS-1004-2651			3-4'	10
TI-B10-SSS-1004-2652			4-5'	12
TI-B10-SSS-1004-2653			5-6'	14
TI-B10-SSS-1005-2654	B10-262	55 N X 165 E	0-1'	16
TI-B10-SSS-1005-2655			1'-2'	11
TI-B10-SSS-1005-2656			2-3'	5
TI-B10-SSS-1005-2657			3-4'	4
TI-B10-SSS-1005-2658			4-5'	12
TI-B10-SSS-1005-2659			5-6'	17
TI-B10-SSS-1004-2660	B10-263	70 N X 190 E	0-1'	10
TI-B10-SSS-1004-2661			1'-2'	9
TI-B10-SSS-1004-2662			2-3'	3
TI-B10-SSS-1004-2663			3-4'	10
TI-B10-SSS-1004-2664			4-5'	9
TI-B10-SSS-1004-2665			5-6'	9
TI-B10-SSS-1005-2666	B10-264	70 N X 170 E	0-1'	5
TI-B10-SSS-1005-2667			1'-2'	8
TI-B10-SSS-1005-2668			2-3'	15
TI-B10-SSS-1005-2669			3-4'	18
TI-B10-SSS-1005-2670			4-5'	14
TI-B10-SSS-1005-2671			5-6'	15
TI-B10-SSS-1004-2672	B10-265	60 N X 190 E	0-1'	15
TI-B10-SSS-1004-2673			1'-2'	4
TI-B10-SSS-1004-2674			2-3'	11
TI-B10-SSS-1004-2675			3-4'	11
TI-B10-SSS-1004-2676			4-5'	12

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1004-2677	B10-265	60 N X 190 E	5-6'	9
TI-B10-SSS-1005-2678	B10-266	60 N X 160 E	0-1'	6
TI-B10-SSS-1005-2679			1'-2'	9
TI-B10-SSS-1005-2680			2-3'	3
TI-B10-SSS-1005-2681			3-4'	14
TI-B10-SSS-1005-2682			4-5'	17
TI-B10-SSS-1005-2683			5-6'	14
TI-B10-SSS-1004-2684	B10-267	60 N X 180 E	0-1'	18
TI-B10-SSS-1004-2685			1'-2'	11
TI-B10-SSS-1004-2686			2-3'	16
TI-B10-SSS-1004-2687			3-4'	10
TI-B10-SSS-1004-2688			4-5'	16
TI-B10-SSS-1004-2689			5-6'	9
TI-B10-SSS-1005-2690	B10-268	80 N X 170 E	0-1'	10
TI-B10-SSS-1005-2691			1'-2'	15
TI-B10-SSS-1005-2692			2-3'	13
TI-B10-SSS-1005-2693			3-4'	8
TI-B10-SSS-1005-2694			4-5'	6
			5-6'	CO
TI-B10-SSS-1005-2695	B10-269	65 N X 175 E	0-1'	13
TI-B10-SSS-1005-2696			1'-2'	11
TI-B10-SSS-1005-2697			2-3'	14
TI-B10-SSS-1005-2698			3-4'	11
TI-B10-SSS-1005-2699			4-5'	10
TI-B10-SSS-1005-2700			5-6'	7
TI-B10-SSS-1005-2701	B10-270	65 N X 165 E	0-1'	10
TI-B10-SSS-1005-2702			1'-2'	12
TI-B10-SSS-1005-2703			2-3'	9
TI-B10-SSS-1005-2704			3-4'	11
TI-B10-SSS-1005-2705			4-5'	9
TI-B10-SSS-1005-2706			5-6'	5
TI-B10-SSS-1004-2707	B10-271	55 N X 175 E	0-1'	11
TI-B10-SSS-1004-2708			1'-2'	12
TI-B10-SSS-1004-2709			2-3'	6
TI-B10-SSS-1004-2710			3-4'	7
TI-B10-SSS-1004-2711			4-5'	7
TI-B10-SSS-1004-2712			5-6'	10
TI-B10-SSS-1005-2713	B10-272	80 N X 160 E	0-1'	18
TI-B10-SSS-1005-2714			1'-2'	15
TI-B10-SSS-1005-2715			2-3'	13

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1005-2716	B10-272	80 N X 160 E	3-4'	12
TI-B10-SSS-1005-2717			4-5'	11
TI-B10-SSS-1005-2718			5-6'	10
TI-B10-SSS-1005-2719	B10-273	70 N X 160 E	0-1'	14
TI-B10-SSS-1005-2720			1'-2'	11
TI-B10-SSS-1005-2721			2-3'	11
TI-B10-SSS-1005-2722			3-4'	12
TI-B10-SSS-1005-2723			4-5'	12
TI-B10-SSS-1005-2724			5-6'	11
TI-B10-SSS-1005-2725	B10-274	75 N X 165 E	0-1'	12
TI-B10-SSS-1005-2726			1'-2'	11
TI-B10-SSS-1005-2727			2-3'	12
TI-B10-SSS-1005-2728			3-4'	9
TI-B10-SSS-1005-2729			4-5'	12
TI-B10-SSS-1005-2730			5-6'	5
TI-B10-SSS-1005-2731	B10-275	60 N X 170 E	0-1'	15
TI-B10-SSS-1005-2732			1'-2'	3
TI-B10-SSS-1005-2733			2-3'	25
TI-B10-SSS-1005-2734			3-4'	8
TI-B10-SSS-1005-2735			4-5'	14
TI-B10-SSS-1005-2736			5-6'	9
TI-B10-SSS-1006-2737	B10-276	170 N X 20 E	0-1'	14
TI-B10-SSS-1006-2738			1'-2'	8
TI-B10-SSS-1006-2739			2-3'	21
TI-B10-SSS-1006-2740			3-4'	7
TI-B10-SSS-1006-2741			4-5'	16
TI-B10-SSS-1006-2742			5-6'	5
TI-B10-SSS-1006-2743	B10-277	170 N X 10 E	0-1'	8
TI-B10-SSS-1006-2744			1'-2'	4
TI-B10-SSS-1006-2745			2-3'	12
TI-B10-SSS-1006-2746			3-4'	13
TI-B10-SSS-1006-2747			4-5'	17
TI-B10-SSS-1006-2748			5-6'	8
TI-B10-SSS-1006-2749	B10-278	175 N X 25 E	0-1'	7
TI-B10-SSS-1006-2750			1'-2'	13
TI-B10-SSS-1006-2751			2-3'	5
			3-4'	R
TI-B10-SSS-1006-2752			4-5'	17
TI-B10-SSS-1006-2753			5-6'	5

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1006-2754	B10-279	175 N X 15 E	0-1'	9
TI-B10-SSS-1006-2755			1'-2'	14
TI-B10-SSS-1006-2756			2-3'	8
TI-B10-SSS-1006-2757			3-4'	18
TI-B10-SSS-1006-2758			4-5'	17
TI-B10-SSS-1006-2759			5-6'	14
TI-B10-SSS-1006-2760	B10-280	180 N X 10 E	0-1'	13
TI-B10-SSS-1006-2761			1'-2'	12
			2-3'	R
TI-B10-SSS-1006-2762			3-4'	13
TI-B10-SSS-1006-2763			4-5'	10
TI-B10-SSS-1006-2764			5-6'	11
TI-B10-SSS-1006-2765	B10-281	180 N X 30 E	0-1'	15
TI-B10-SSS-1006-2766			1'-2'	17
TI-B10-SSS-1006-2767			2-3'	14
TI-B10-SSS-1006-2768			3-4'	23
TI-B10-SSS-1006-2769			4-5'	14
TI-B10-SSS-1006-2770			5-6'	20
TI-B10-SSS-1006-2771	B10-282	185 N X 20 E	0-1'	10
TI-B10-SSS-1006-2772			1'-2'	13
			2-3'	R
			3-4'	R
			4-5'	R
			5-6'	R
TI-B10-SSS-1006-2773	B10-283	180 N X 20 E	0-1'	12
			1'-2'	R
			2-3'	R
			3-4'	R
			4-5'	R
			5-6'	R
TI-B10-SSS-1006-2774	B10-284	185 N X 15 E	0-1'	11
TI-B10-SSS-1006-2775			'-2'	11
TI-B10-SSS-1006-2776			2-3'	9
TI-B10-SSS-1006-2777			3-4'	12
TI-B10-SSS-1006-2778			4-5'	14
TI-B10-SSS-1006-2779			5-6'	7
TI-B10-SSS-1006-2780	B10-285	190 N X 25 E	0-1'	19
TI-B10-SSS-1006-2781			1'-2'	11
TI-B10-SSS-1006-2782			2-3'	12
TI-B10-SSS-1006-2783			3-4'	6
TI-B10-SSS-1006-2784			4-5'	10

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1006-2785	B10-285	190 N X 25 E	5-6'	11
TI-B10-SSS-1006-2786	B10-286	185 N X 35 E	0-1'	9
TI-B10-SSS-1006-2787			1'-2'	6
TI-B10-SSS-1006-2788			2-3'	18
TI-B10-SSS-1006-2789			3-4'	15
TI-B10-SSS-1006-2790			4-5'	8
TI-B10-SSS-1006-2791			5-6'	7
TI-B10-SSS-1006-2792	B10-287	190 N X 10 E	0-1'	11
TI-B10-SSS-1006-2793			1'-2'	10
			2-3'	R
			3-4'	R
			4-5'	R
			5-6'	R
TI-B10-SSS-1006-2794	B10-288	190 N X 15E	0-1'	12
TI-B10-SSS-1006-2795			1'-2'	12
TI-B10-SSS-1006-2796			2-3'	11
TI-B10-SSS-1006-2797			3-4'	3
TI-B10-SSS-1006-2798			4-5'	8
			5-6'	R
TI-B10-SSS-1006-2799	B10-289	185 N X 45 E	0-1'	28
TI-B10-SSS-1006-2800			1'-2'	5
TI-B10-SSS-1006-2801			2-3'	19
TI-B10-SSS-1006-2802			3-4'	4
TI-B10-SSS-1006-2803			4-5'	13
TI-B10-SSS-1006-2804			5-6'	8
TI-B10-SSS-1006-2805	B10-290	170 N X 30 E	0-1'	6
TI-B10-SSS-1006-2806			1'-2'	16
TI-B10-SSS-1006-2807			2-3'	13
TI-B10-SSS-1006-2808			3-4'	11
			4-5'	R
			5-6'	R
TI-B10-SSS-1006-2809	B10-291	190 N X 50E	0-1'	23
TI-B10-SSS-1006-2810			1'-2'	7
TI-B10-SSS-1006-2811			2-3'	10
TI-B10-SSS-1006-2812			3-4'	8
TI-B10-SSS-1006-2813			4-5'	18
TI-B10-SSS-1006-2814			5-6'	6
TI-B10-SSS-1006-2815	B10-292	189 N X 41 E	0-1'	14
TI-B10-SSS-1006-2816			1'-2'	10
TI-B10-SSS-1006-2817			2-3'	14

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1006-2818	B10-292	189 N X 41 E	3-4'	16
TI-B10-SSS-1006-2819			4-5'	12
			5-6'	R
TI-B10-SSS-1008-2821	B10-293	20 N X 30 E	0-1'	14
TI-B10-SSS-1008-2822			1'-2'	12
TI-B10-SSS-1008-2823			2-3'	14
TI-B10-SSS-1008-2824			3-4'	13
TI-B10-SSS-1008-2825			4-5'	13
TI-B10-SSS-1008-2826			5-6'	8
TI-B10-SSS-1008-2827	B10-294	40 N X 23 E	0-1'	12
TI-B10-SSS-1008-2828			1'-2'	11
TI-B10-SSS-1008-2829			2-3'	15
TI-B10-SSS-1008-2830			3-4'	8
TI-B10-SSS-1008-2831			4-5'	12
TI-B10-SSS-1008-2832			5-6'	3
TI-B10-SSS-1008-2833	B10-295	33 N X 25 E	0-1'	12
TI-B10-SSS-1008-2834			1'-2'	10
TI-B10-SSS-1008-2835			2-3'	16
TI-B10-SSS-1008-2836			3-4'	18
TI-B10-SSS-1008-2837			4-5'	13
TI-B10-SSS-1008-2838			5-6'	15
TI-B10-SSS-1008-2839	B10-296	10 N X 30 E	0-1'	18
TI-B10-SSS-1008-2840			1'-2'	6
TI-B10-SSS-1008-2841			2-3'	7
TI-B10-SSS-1008-2842			3-4'	5
TI-B10-SSS-1008-2843			4-5'	9
			5-6'	R
TI-B10-SSS-1008-2844	B10-297	35 N X 23 E	0-1'	12
TI-B10-SSS-1008-2845			1'-2'	16
TI-B10-SSS-1008-2846			2-3'	10
TI-B10-SSS-1008-2847			3-4'	8
TI-B10-SSS-1008-2848			4-5'	14
TI-B10-SSS-1008-2849			5-6'	6
TI-B10-SSS-1008-2850	B10-298	30 N X 28 E	0-1'	14
TI-B10-SSS-1008-2851			1'-2'	7
TI-B10-SSS-1008-2852			2-3'	15
TI-B10-SSS-1008-2853			3-4'	9
TI-B10-SSS-1008-2854			4-5'	12
TI-B10-SSS-1008-2855			5-6'	9

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1008-2856	B10-299	35 N X 28 E	0-1'	12
TI-B10-SSS-1008-2857			1'-2'	11
TI-B10-SSS-1008-2858			2-3'	4
TI-B10-SSS-1008-2859			3-4'	13
TI-B10-SSS-1008-2860			4-5'	2
TI-B10-SSS-1008-2861			5-6'	4
TI-B10-SSS-1008-2862	B10-300	15 N X 55 E	0-1'	10
TI-B10-SSS-1008-2863			1'-2'	15
			2-3'	R
			3-4'	R
			4-5'	R
			5-6'	R
TI-B10-SSS-1008-2864	B10-301	26 N X 25 E	0-1'	15
TI-B10-SSS-1008-2865			1'-2'	7
TI-B10-SSS-1008-2866			2-3'	15
TI-B10-SSS-1008-2867			3-4'	8
TI-B10-SSS-1008-2868			4-5'	7
TI-B10-SSS-1008-2869			5-6'	5
TI-B10-SSS-1008-2870	B10-302	23 N X 28 E	0-1'	26
TI-B10-SSS-1008-2871			1'-2'	10
TI-B10-SSS-1008-2872			2-3'	12
TI-B10-SSS-1008-2873			3-4'	14
TI-B10-SSS-1008-2874			4-5'	4
			5-6'	R
TI-B10-SSS	B10-303	5 N X 105 E	0-1'	7
TI-B10-SSS			1'-2'	7
TI-B10-SSS			2-3'	5
TI-B10-SSS			3-4'	5
			4-5'	R
			5-6'	R
TI-B10-SSS-1008-2877	B10-304	0 X 80 E	0-1'	20
TI-B10-SSS-1008-2878			1'-2'	11
TI-B10-SSS-1008-2879			2-3'	22
			3-4'	R
			4-5'	R
			5-6'	R
TI-B10-SSS-1008-2880	B10-305	5 N X 100 E	0-1'	18
TI-B10-SSS-1008-2881			1'-2'	7
TI-B10-SSS-1008-2882			2-3'	20
TI-B10-SSS-1008-2883			3-4'	12
TI-B10-SSS-1008-2884			4-5'	5

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1008-2885	B10-305	5 N X 100 E	5-6'	11
TI-B10-SSS-1008-2886	B10-306	23 N X 23 E	0-1'	10
TI-B10-SSS-1008-2887			1'-2'	8
TI-B10-SSS-1008-2888			2-3'	9
TI-B10-SSS-1008-2889			3-4'	6
TI-B10-SSS-1008-2890			4-5'	14
TI-B10-SSS-1008-2891			5-6'	11
TI-B10-SSS-1008-2892	B10-307	13 N X 85 E	0-1'	5
TI-B10-SSS-1008-2893			1'-2'	10
TI-B10-SSS-1008-2894			2-3'	16
TI-B10-SSS-1008-2895			3-4'	20
TI-B10-SSS-1008-2896			4-5'	14
TI-B10-SSS-1008-2897			5-6'	18
TI-B10-SSS-1008-2898	B10-308	0 X 100 E	0-1'	14
TI-B10-SSS-1008-2899			1'-2'	16
TI-B10-SSS-1008-2900			2-3'	14
TI-B10-SSS-1008-2901			3-4'	21
TI-B10-SSS-1008-2902			4-5'	17
TI-B10-SSS-1008-2903			5-6'	15
TI-B10-SSS-1008-2904	B10-309	0 X 105E	0-1'	14
TI-B10-SSS-1008-2905			1'-2'	12
TI-B10-SSS-1008-2906			2-3'	17
TI-B10-SSS-1008-2907			3-4'	11
TI-B10-SSS-1008-2908			4-5'	20
TI-B10-SSS-1008-2909			5-6'	6
TI-B10-SSS-1008-2910	B10-310	30 N X 23 E	0-1'	18
TI-B10-SSS-1008-2911			1'-2'	7
TI-B10-SSS-1008-2912			2-3'	10
TI-B10-SSS-1008-2913			3-4'	7
TI-B10-SSS-1008-2914			4-5'	14
TI-B10-SSS-1008-2915			5-6'	11
TI-B10-SSS-1008-2916	B10-311	42 N X 23 E	0-1'	18
TI-B10-SSS-1008-2917			1'-2'	11
TI-B10-SSS-1008-2918			2-3'	6
TI-B10-SSS-1008-2919			3-4'	11
TI-B10-SSS-1008-2920			4-5'	13
TI-B10-SSS-1008-2921			5-6'	10
TI-B10-SSS-1008-2922	B10-312	9 N X 85 E	0-1'	11
TI-B10-SSS-1008-2923			1'-2'	11
TI-B10-SSS-1008-2924			2-3'	7

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1008-2925	B10-312	9 N X 85 E	3-4'	13
TI-B10-SSS-1008-2926			4-5'	19
TI-B10-SSS-1008-2927			5-6'	12
TI-B10-SSS-1008-4034	B10-313	42 N X 28 E	0-1'	6
TI-B10-SSS-1008-4035			1'-2'	13
TI-B10-SSS-1008-4036			2-3'	15
			3-4'	R
			4-5'	R
			5-6'	R
TI-B10-SSS-1008-4037	B10-314	5 N X 112 E	0-1'	9
TI-B10-SSS-1008-4038			1'-2'	11
TI-B10-SSS-1008-4039			2-3'	14
TI-B10-SSS-1008-4040			3-4'	12
TI-B10-SSS-1008-4041			4-5'	7
TI-B10-SSS-1008-4042			5-6'	13
TI-B10-SSS-1008-4043	B10-315	0 X 112 E	0-1'	23
TI-B10-SSS-1008-4044			1'-2'	6
TI-B10-SSS-1008-4045			2-3'	10
TI-B10-SSS-1008-4046			3-4'	13
TI-B10-SSS-1008-4047			4-5'	9
TI-B10-SSS-1008-4048			5-6'	13
TI-B10-SSS-1009-4049	B10-316	54 N X 23 E	0-1'	12
TI-B10-SSS-1009-4050			1'-2'	14
TI-B10-SSS-1009-4051			2-3'	9
TI-B10-SSS-1009-4052			3-4'	14
TI-B10-SSS-1009-4053			4-5'	12
TI-B10-SSS-1008-4054			5-6'	7
TI-B10-SSS-1009-4055	B10-317	72 N X 23 E	0-1'	13
TI-B10-SSS-1009-4056			1'-2'	9
TI-B10-SSS-1009-4057			2-3'	10
TI-B10-SSS-1009-4058			3-4'	6
TI-B10-SSS-1009-4059			4-5'	9
			5-6'	R
TI-B10-SSS-1009-4060	B10-318	67 N X 26 E	0-1'	8
TI-B10-SSS-1009-4061			1'-2'	21
TI-B10-SSS-1009-4062			2-3'	9
			3-4'	R
			4-5'	R
			5-6'	R

Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1009-4063	B10-319	80 N X 23 E	0-1'	10
TI-B10-SSS-1009-4064			1'-2'	5
TI-B10-SSS-1009-4065			2-3'	4
TI-B10-SSS-1009-4066			3-4'	8
TI-B10-SSS-1009-4067			4-5'	14
TI-B10-SSS-1009-4068			5-6'	13
TI-B10-SSS-1009-4069	B10-320	70 N X 28 E	0-1'	11
TI-B10-SSS-1009-4070			1'-2'	12
TI-B10-SSS-1009-4071			2-3'	9
TI-B10-SSS-1009-4072			3-4'	9
TI-B10-SSS-1009-4073			4-5'	18
TI-B10-SSS-1009-4074			5-6'	18
TI-B10-SSS-1009-4075	B10-321	88 N X 23 E	0-1'	6
TI-B10-SSS-1009-4076			1'-2'	12
TI-B10-SSS-1009-4077			2-3'	16
TI-B10-SSS-1009-4078			3-4'	11
TI-B10-SSS-1009-4079			4-5'	14
TI-B10-SSS-1009-4080			5-6'	12
TI-B10-SSS-1009-4081	B10-322	95 N X 23 E	0-1'	7
TI-B10-SSS-1009-4082			1'-2'	9
TI-B10-SSS-1009-4083			2-3'	6
TI-B10-SSS-1009-4084			3-4'	16
TI-B10-SSS-1009-4085			4-5'	8
TI-B10-SSS-1009-4086			5-6'	15
TI-B10-SSS-1009-4087	B10-323	100 N X 26 E	0-1'	16
TI-B10-SSS-1009-4088			1'-2'	12
TI-B10-SSS-1009-4089			2-3'	5
TI-B10-SSS-1009-4090			3-4'	13
TI-B10-SSS-1009-4091			4-5'	12
TI-B10-SSS-1009-4092			5-6'	7
TI-B10-SSS-1009-4093	B10-324	55 N X 23 E	0-1'	8
TI-B10-SSS-1009-4094			1'-2'	6
			2-3'	R
			3-4'	R
			4-5'	R
			5-6'	R
TI-B10-SSS-1009-4095	B10-325	86 N X 28 E	0-1'	9
TI-B10-SSS-1009-4096			1'-2'	10
TI-B10-SSS-1009-4097			2-3'	12
TI-B10-SSS-1009-4098			3-4'	11
TI-B10-SSS-1009-4099			4-5'	10

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1009-4100	B10-325	86 N X 28 E	5-6'	10
TI-B10-SSS-1009-4101	B10-326	101 N X 23 E	0-1'	12
TI-B10-SSS-1009-4102			1'-2'	12
TI-B10-SSS-1009-4103			2-3'	20
TI-B10-SSS-1009-4104			3-4'	25
TI-B10-SSS-1009-4105			4-5'	8
TI-B10-SSS-1009-4106			5-6'	14
TI-B10-SSS-1009-4107	B10-237	83 N X 26 E	0-1'	14
TI-B10-SSS-1009-4108			1'-2'	6
TI-B10-SSS-1009-4109			2-3'	12
TI-B10-SSS-1009-4110			3-4'	11
TI-B10-SSS-1009-4111			4-5'	12
TI-B10-SSS-1009-4112			5-6'	7
TI-B10-SSS-1009-4113	B10-328	95 N X 26 E	0-1'	12
TI-B10-SSS-1009-4114			1'-2'	10
TI-B10-SSS-1009-4115			2-3'	11
TI-B10-SSS-1009-4116			3-4'	12
TI-B10-SSS-1009-4117			4-5'	8
TI-B10-SSS-1009-4118			5-6'	6
TI-B10-SSS-1009-4119	B10-329	90 N X 26 E	0-1'	10
TI-B10-SSS-1009-4120			1'-2'	11
TI-B10-SSS-1009-4121			2-3'	12
TI-B10-SSS-1009-4122			3-4'	R
TI-B10-SSS-1009-4123			4-5'	11
TI-B10-SSS-1009-4124			5-6'	5
TI-B10-SSS-1019-4255	B10-330	10 S X 170 E	0-2'	26
TI-B10-SSS-1019-4256			2'-4'	6
TI-B10-SSS-1019-4257			4'-6'	12
TI-B10-SSS-1019-4258	B10-331	10 S X 160 E	0-2'	10
TI-B10-SSS-1019-4259			2'-4'	R
TI-B10-SSS-1019-4260			4'-6'	13
TI-B10-SSS-1019-4261	B10-332	0 X 170 E	0-2'	17
TI-B10-SSS-1019-4262			2'-4'	9
TI-B10-SSS-1019-4263			4'-6'	6
TI-B10-SSS-1019-4264	B10-333	0 X 150 E	0-2'	11
TI-B10-SSS-1019-4265			2'-4'	13
TI-B10-SSS-1019-4266			4'-6'	15

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1019-4267	B10-334	10 S X 150 E	0-2'	8
TI-B10-SSS-1019-4268			2'-4'	15
TI-B10-SSS-1019-4269			4'-6'	19
TI-B10-SSS-1019-4270	B10-335	5 S X 155 E	0-2'	7
TI-B10-SSS-1019-4271			2'-4'	9
TI-B10-SSS-1019-4272			4'-6'	4
TI-B10-SSS-1020-4273	B10-336	20 S X 150 E	0-2'	11
TI-B10-SSS-1020-4274			2'-4'	26
TI-B10-SSS-1020-4275			4'-6'	15
TI-B10-SSS-1020-4276	B10-337	20 S X 140 E	0-2'	16
TI-B10-SSS-1020-4277			2'-4'	7
TI-B10-SSS-1020-4278			4'-6'	13
TI-B10-SSS-1020-4279	B10-338	142.5 N X 122.5 E	0-2'	100
TI-B10-SSS-1020-4280			2'-4'	19
			4'-6'	R
TI-B10-SSS-1020-4281	B10-339	145 N X 120 E	0-2'	7
TI-B10-SSS-1020-4282			2'-4'	16
TI-B10-SSS-1020-4283			4'-6'	24
TI-B10-SSS-1020-4284	B10-340	150 N X 125 E	0-2'	13
TI-B10-SSS-1020-4285			2'-4'	8
TI-B10-SSS-1020-4286			4'-6'	19
TI-B10-SSS-1020-4287	B10-341	147.5 N X 127.5 E	0-2'	7
TI-B10-SSS-1020-4288			2'-4'	17
TI-B10-SSS-1020-4289			4'-6'	17
TI-B10-SSS-1020-4290	B10-342	145 N X 130 E	0-2'	18
			2'-4'	R
			4'-6'	R
TI-B10-SSS-1020-4291	B10-343	142.5 N X 127.5 E	0-2'	13
TI-B10-SSS-1020-4292			2'-4'	19
TI-B10-SSS-1020-4293			4'-6'	14
TI-B10-SSS-1020-4294	B10-344	147.5 N X 122.5 E	0-2'	14
TI-B10-SSS-1020-4295			2'-4'	12
TI-B10-SSS-1020-4296			4'-6'	14
TI-B10-SSS-1020-4297	B10-345	140 N X 125 E	0-2'	12
TI-B10-SSS-1020-4298			2'-4'	14
			4'-6'	R

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1020-4299	B10-346	177 N X 26 E	0-2'	11
TI-B10-SSS-1020-4300			2'-4'	24
TI-B10-SSS-1020-4301			4'-6'	7
TI-B10-SSS-1022-4302	B10-347	175 N X 135 E	0-2'	16
TI-B10-SSS-1022-4303			2'-4'	12
TI-B10-SSS-1022-4304			4'-6'	12
TI-B10-SSS-1022-4305	B10-348	175 N X 145 E	0-2'	20
TI-B10-SSS-1022-4306			2'-4'	7
TI-B10-SSS-1022-4307			4'-6'	16
TI-B10-SSS-1022-4308	B10-349	175 N X 125 E	0-2'	17
TI-B10-SSS-1022-4309			2'-4'	17
TI-B10-SSS-1022-4310			4'-6'	21
TI-B10-SSS-1022-4311	B10-350	175 N X 115E	0-2'	17
TI-B10-SSS-1022-4312			2'-4'	9
TI-B10-SSS-1022-4313			4'-6'	12
TI-B10-SSS-1022-4314	B10-351	180 N X 110 E	0-2'	23
TI-B10-SSS-1022-4315			2'-4'	7
			4'-6'	R
TI-B10-SSS-1022-4316	B10-352	180 N X 100 E	0-2'	15
TI-B10-SSS-1022-4317			2'-4'	16
TI-B10-SSS-1022-4318			4'-6'	6
TI-B10-SSS-1022-4319	B10-353	175 N X 105 E	0-2'	16
TI-B10-SSS-1022-4320			2'-4'	13
			4'-6'	NA
TI-B10-SSS-1022-4321	B10-354	175 N X 20 E	0-2'	20
			2'-4'	NA
			4'-6'	NA
TI-B10-SSS-1022-4322	B10-355	177.5N X 22.5 E	0-2'	18
			2'-4'	NA
			4'-6'	NA
TI-B10-SSS-1023-4333	B10-356	172.5 N X 22.5 E	0-2'	17
			2'-4'	NA
			4'-6'	NA
TI-B10-SSS-1023-4334	B10-357	170 N X 25 E	0-2'	8
			2'-4'	NA
			4'-6'	NA

Building 10 Split Spoon Sampling
Alpha Screening Results

Archive Number	Spoon #	Sample Location	Depth	cts/10 min
TI-B10-SSS-1023-4335	B10-358	172.5 N X 27.5 E	0-2'	20
			2'-4'	NA
			4'-6'	NA
TI-B10-SSS-1023-4336	B10-359	177.5 N X 27.5 E	0-2'	9
			2'-4'	NA
			4'-6'	NA
	B10-360	180 N X 25 E	0-2'	15
			2'-4'	NA
			4'-6'	NA

Radiological Surveys of Open Land Areas

Texas Instruments Incorporated
Attleboro, Massachusetts

Appendix B2

Building 10 Perimeter and Building 10 Alleged Zirc Burning Area

Drawing CPS-TI-0106A Sub Surface Soil Sample Locations

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Radiological Surveys of Open Land Areas

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Attleboro, Massachusetts

Appendix B3

Building 10 Perimeter and Building 10 Alleged Zirc Burning Area

Drawing CPS-TI-0106H Grid Cell Averages and Maximum Depths

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Radiological Surveys of Open Land Areas

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Appendix B4

Building 10 Perimeter and Building 10 Alleged Zirc Burning Area

Bore Hole Measurements and Static Measurements

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
110		140		1'	3800
				2'	4500
				3'	4400
115		145		1'	4100
				2'	4300
				3'	4300
120		140		1'	4200
				2'	4200
				3'	4000
130		140		1'	4000
				2'	3900
				3'	n/a
120		130		1'	3800
				2'	4200
				3'	3800
110		130		1'	3800
				2'	4200
				3'	4600
110		150		1'	4100
				2'	4500
				3'	4300
100		140		1'	4200
				2'	4300
				3'	4500
95		145		1'	3700
				2'	4100
				3'	4100
90		140		1'	4500
				2'	4500
				3'	4600
85		145		1'	3800
				2'	4000
				3'	4200

NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
80		150		1'	3800
				2'	4100
				3'	4300
80		140		1'	4100
				2'	4100
				3'	4300
75		145		1'	3900
				2'	4100
				3'	4400
80		130		1'	3600
				2'	4100
				3'	4300
80		120		1'	3600
				2'	3900
				3'	4400
85		125		1'	3600
				2'	3700
				3'	4200
90		130		1'	3900
				2'	4000
				3'	4200
90		120		1'	4000
				2'	4300
				3'	4300
100		120		1'	4000
				2'	4200
				3'	4500
95		125		1'	4000
				2'	4100
				3'	4400
100		130		1'	3800
				2'	4100
				3'	4000

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
95		135		1'	4100
				2'	4200
				3'	4100
75		135		1'	3600
				2'	4000
				3'	4500
75		125		1'	3800
				2'	4000
				3'	4100
70		140		1'	3700
				2'	4200
				3'	4500
65		145		1'	4000
				2'	4500
				3'	4300
	40	100		1'	4000
				2'	4000
				3'	3800
55		145		1'	4000
				2'	4100
				3'	4500
60		140		1'	3800
				2'	4000
				3'	4200
50		140		1'	4000
				2	4300
				3'	4500
45		145		1'	4000
				2'	4300
				3'	4300
40		140		1'	4000
				2'	4500
				3'	4500

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
35		145		1'	3100
				2'	4000
				3'	4000
25		145		1'	3500
				2'	4000
				3'	4200
15		145		1'	3500
				2'	4000
				3'	4400
5		145		1'	3800
				2'	4200
				3'	4400
	5	145		1'	3500
				2'	4000
				3'	3800
	6	140		1'	3500
				2'	4000
				3'	4000
45		155		1'	3600
				2'	3900
				3'	4300
45		165		1'	3500
				2'	3800
				3'	4200
40		150		1'	3600
				2'	4000
				3'	4400
40		160		1'	3700
				2'	4000
				3'	4400
35		155		1'	3400
				2'	3700
				3'	4200

NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
35		165		1'	3400
				2'	3600
				3'	3900
105		155		1'	3500
				2'	3800
				3'	3900
95		155		1'	3700
				2'	3900
				3'	4100
85		155		1'	3700
				2'	4000
				3'	4200
75		155		1'	3700
				2'	3800
				3'	4100
65		155		1'	3500
				2'	3800
				3'	4000
55		155		1'	3600
				2'	3700
				3'	refusal
60		150		1'	3700
				2'	4100
				3'	4500
70		150		1'	3700
				2'	4300
				3'	4500
90		150		1'	3900
				2'	refusal
				3'	refusal
100		150		1'	3900
				2'	4200
				3'	4400

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
50		150		1'	3700
				2'	3800
				3'	4100
50		160		1'	3500
				2'	3800
				3'	4200
30		150		1'	3600
				2'	4200
				3'	4400
30		160		1'	3400
				2'	3900
				3'	4400
25		155		1'	3700
				2'	4100
				3'	4200
25		165		1'	3600
				2'	3900
				3'	4100
20		150		1'	3900
				2'	4200
				3'	4400
20		160		1'	3800
				2'	4100
				3'	4500
15		155		1'	3700
				2'	3800
				3'	4000
15		165		1'	3700
				2'	3800
				3'	4000
10		150		1'	3800
				2'	4000
				3'	4200

Building 1v Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
10		160		1'	3700
				2'	3900
				3'	4100
5		155		1'	3500
				2'	3700
				3'	4000
5		165		1'	3600
				2'	3900
				3'	4100
10		170		1'	3600
				2'	4000
				3'	4100
10		120		1'	3200
				2'	3300
				3'	3500
	5	165		1'	3600
				2'	3900
				3'	4100
0		160		1'	3400
				2'	3700
				3'	3900
10		140		1'	3700
				2'	3900
				3'	4000
0		140		1'	3500
				2'	3900
				3'	4100
	15	145		1'	3600
				2'	3800
				3'	3800
	15	115		1'	3700
				2'	4100
				3'	4500

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
	15	135		1'	3600
				2'	4100
				3	4500
	5	120		1'	3800
				2'	3900
				3'	4000
	5	95		1'	3500
				2'	3600
				3	4000
	5	110		1'	3900
				2'	4000
				3'	4200
	5	105		1'	3900
				2'	4100
				3'	4500
	15	105		1'	4000
				2'	4200
				3'	4300
	15	85		1'	3600
				2'	3700
				3'	4000
	15	75		1'	3800
				2'	4200
				3'	4300
	15	95		1'	3900
				2'	4100
				3'	4400
	0	10		1'	3500
				2'	3700
				3'	3800
	5	15		1'	3700
				2'	3800
				3'	3900

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
	5	50		1'	3800
				2'	4000
				3'	4300
	5	25		1'	3600
				2'	3800
				3'	4100
	5	60		1'	3700
				2'	3900
				3'	4200
	5	40		1'	3600
				2'	3800
				3'	4100
	5	70		1'	3400
				2'	3500
				3'	3700
	5	80		1'	3400
				2'	3500
				3'	3900
	25	85		1'	7000
				2'	10,000
				3'	15,000
	28	83		1'	4500
				2'	6000
				3'	7000
	85	75		1'	3200 (6")
				2'	H2O
				3'	H2O
	65	75		1'	6000
				2'	H2O
				3'	H2O
	5	115		1'	6000
				2'	4500
				3'	3700

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
0		120		1'	3700
				2'	3900
				3'	4100
5		125		1'	3500
				2'	3600
				3'	4000
	5	105		1'	3600
				2'	3800
				3'	4400
5		115		1'	3700
				2'	3900
				3'	4000
10		130		1'	3600
				2'	3700
				3'	3900
	5	85		1'	4000
				2'	4200
				3'	refusal
0		130		1'	3500
				2'	3800
				3'	3900
15		125		1'	3500
				2'	3900
				3'	3900
20		130		1'	3800
				2'	3800
				3'	4000
25		125		1'	3500
				2'	3800
				3'	3900
30		130		1'	3900
				2'	4200
				3'	4500

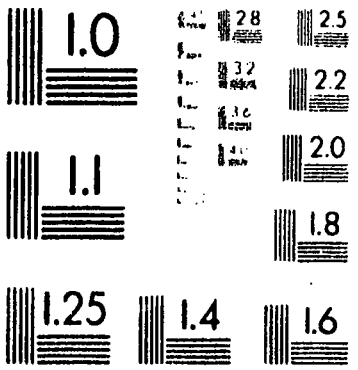
Building 10 Borehole Gamma Logging
NaI Results

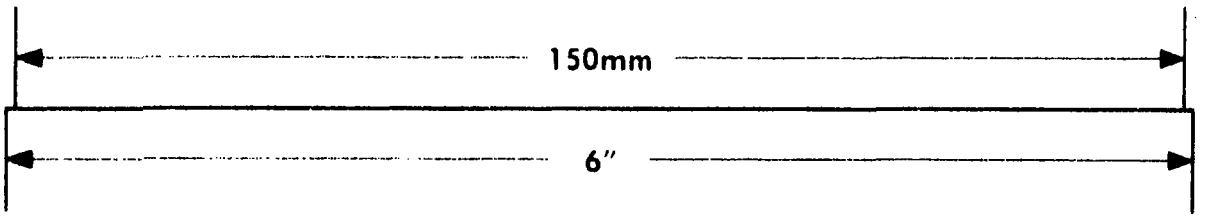
SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
30		120		1'	3800
				2'	3800
				3'	4000
35		125		1'	3800
				2'	4000
				3'	4400
40		130		1'	3900
				2'	4200
				3'	4500
40		120		1'	3500
				2'	3800
				3'	4000
50		130		1'	3600
				2'	3800
				3'	4200
55		125		1'	3800
				2'	4100
				3'	refusal
60		130		1'	3800
				2'	4100
				3'	4300
60		120		1'	3800
				2'	4000
				3'	4200
70		130		1'	3900
				2'	3900
				3'	4200
65		125		1'	4000
				2'	4100
				3'	4300
65		135		1'	3900
				2'	4000
				3'	4100

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
70		120		1'	3800
				2'	4100
				3'	4200
45		135		1'	3900
				2'	4000
				3'	4200
55		135		1'	3800
				2'	4100
				3'	4400
25		130		1'	3900
				2'	4000
				3'	4300
5		85		1'	4000
				2'	4300
				3'	4600
20		60		1'	4000
				2'	4100
				3'	4500
0		80		1'	7,000 /12"
				2'	3800
				3'	4400
15		65		1'	3900
				2'	3600
				3'	3600
5		75		1'	3700
				2'	3700
				3'	3800
10		60		1'	3500
				2'	3800
				3'	3800
0		70		1'	3700
				2'	3700
				3'	WATER

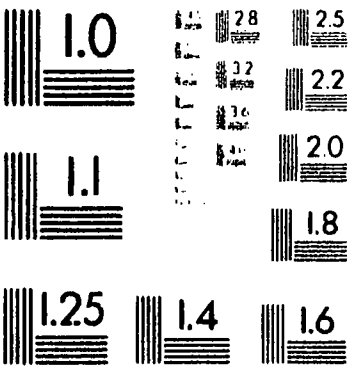
IMAGE EVALUATION TEST TARGET (MT-3)

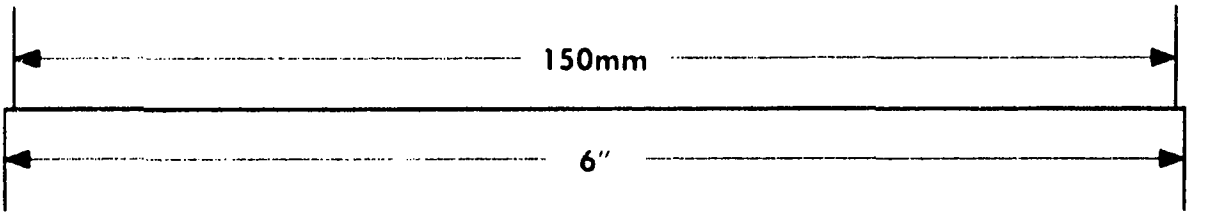




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IMAGE EVALUATION TEST TARGET (MT-3)





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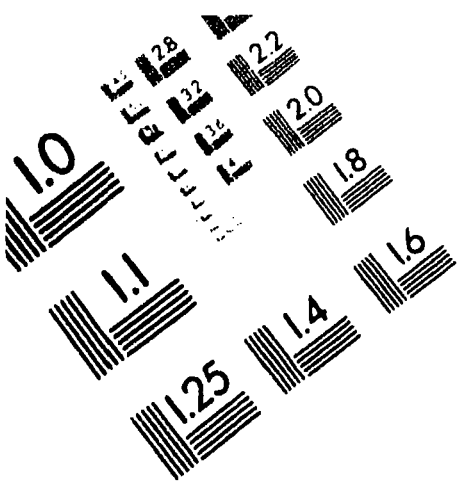
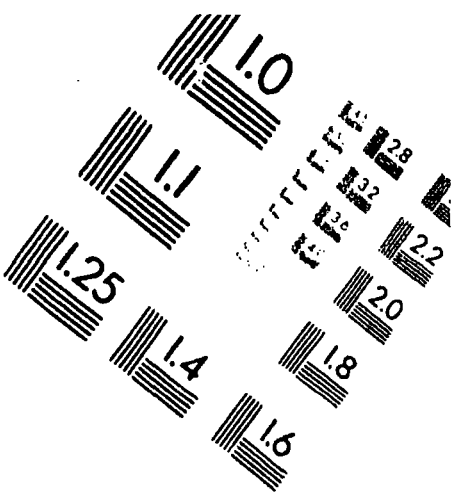
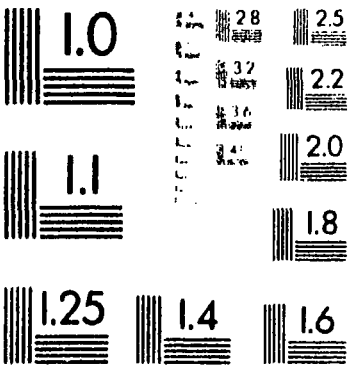
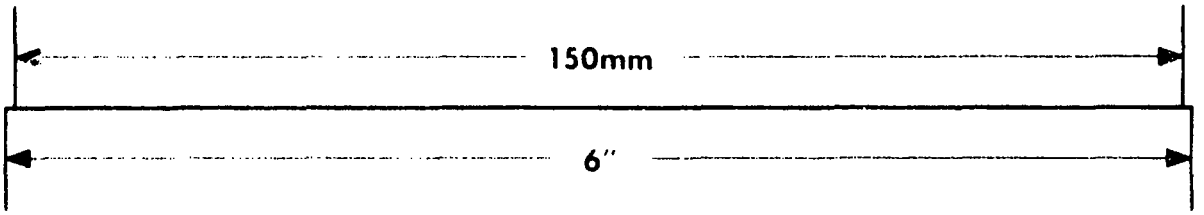
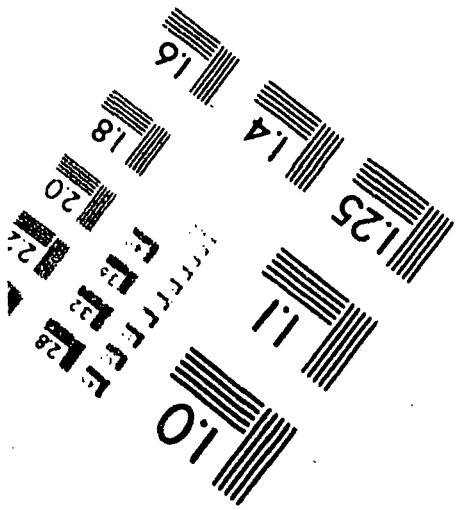


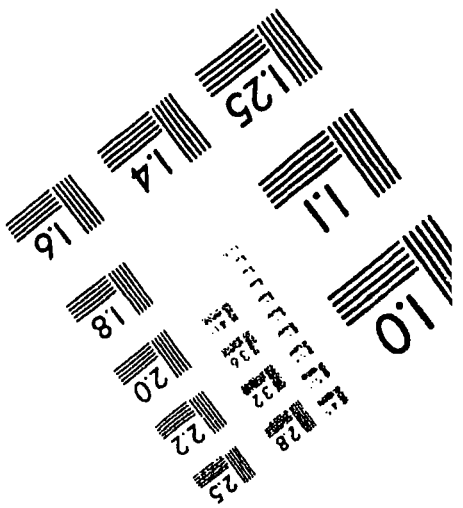
IMAGE EVALUATION TEST TARGET (MT-3)





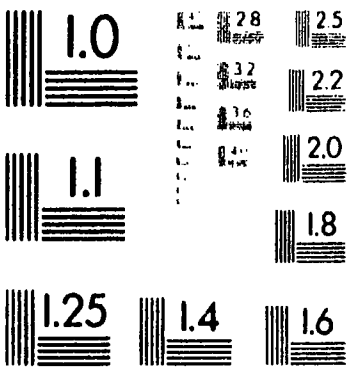


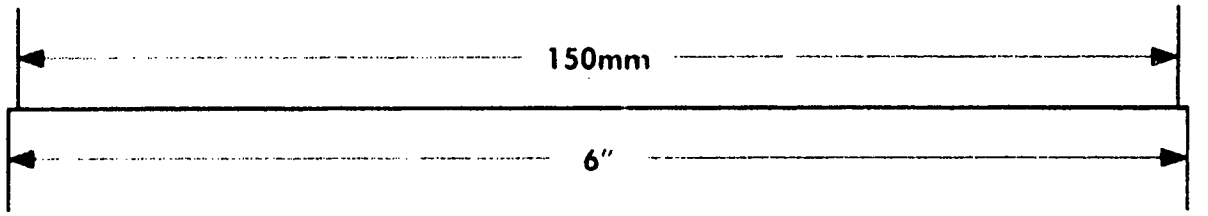




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IMAGE EVALUATION TEST TARGET (MT-3)





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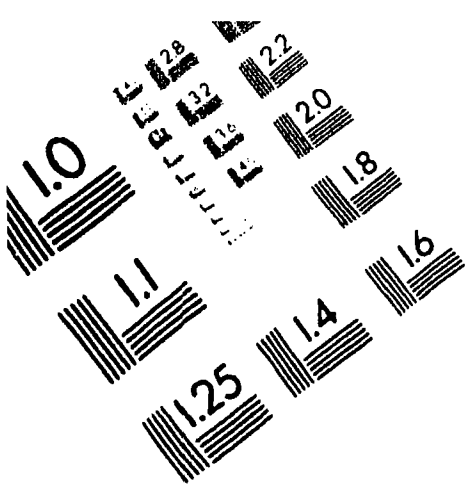
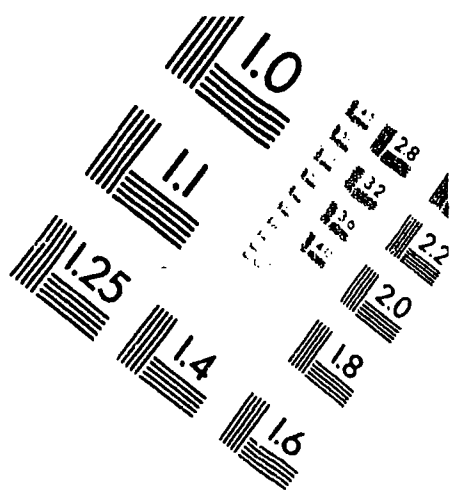
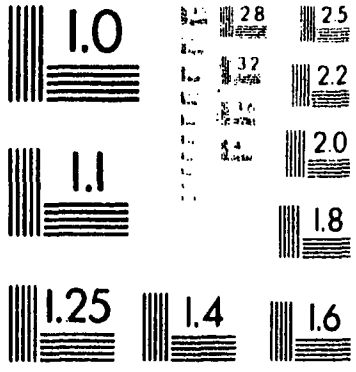
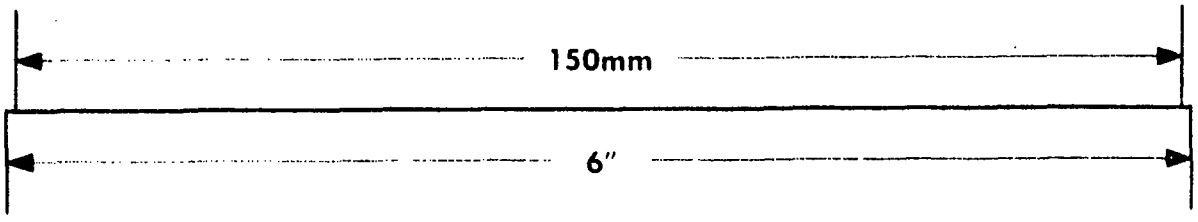
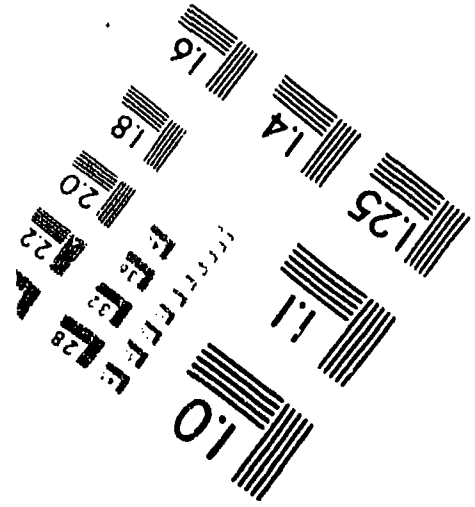


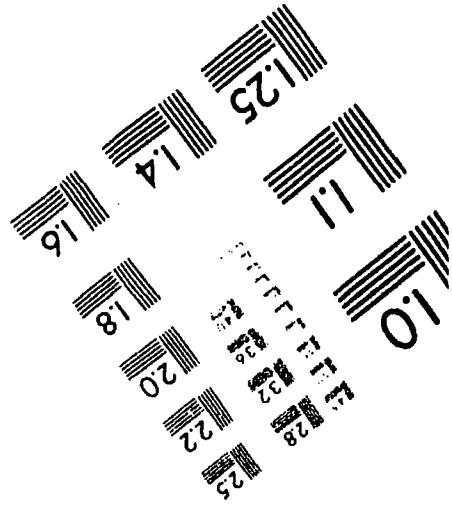
IMAGE EVALUATION TEST TARGET (MT-3)











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Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
0		50		1'	3800
				2'	3800
				3'	3900
0		60		1'	3700
				2'	3900
				3'	3900
15		45		1'	3800
				2'	3800
				3'	4300
5		55		1'	4000
				2'	4000
				3'	4100
10		40		1'	4000
				2'	4000
				3'	4100
0		40		1'	4500
				2'	4000
				3'	4100
10		50		1'	4600
				2'	3900
				3'	4000
132		120		1'	3600
				2'	3600
				3'	3500
135		125		1'	3900
				2'	3800
				3'	3700
140		120		1'	3800
				2'	3600
				3'	refusal
150		120		1'	6,000 8''
				2'	4200
				3'	4000

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
140		130		1'	4000
				2'	3900
				3'	4000
145		125		1'	3800
				2'	3800
				3'	4000
135		135		1'	4000
				2'	4200
				3'	4600
150		130		1'	4200
				2'	4100
				3'	4100
150		140		1'	4000
				2'	4000
				3'	3900
145		145		1'	3700
				2'	3800
				3'	4000
135		145		1'	3500
				2'	3600
				3'	3900
150		150		1'	3600
				2'	3900
				3'	4100
135		155		1'	3600
				2'	3900
				3'	4000
145		155		1'	3900
				2'	4000
				3'	4100
140		140		1'	3600
				2'	3900
				3'	4200

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
145		135		1'	3500
				2'	3900
				3'	4200
140		150		1'	3400
				2'	3500
				3'	4000
70		10		1'	3800
				2'	4200
				3'	4400
60		10		1'	3500
				2'	3500
				3'	3600
55		15		1'	3300
				2'	3400
				3'	3400
50		10		1'	3600
				2'	3500
				3'	3400
45		15		1'	3800
				2'	3700
				3'	3500
40		10		1'	3800
				2'	3800
				3'	3600
35		15		1'	3900
				2'	3700
				3'	3600
15		15		1'	4000
				2'	3800
				3'	3700
30		10		1'	4000
				2'	3900
				3'	3600

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
10		10		1'	4000
				2''	3800
				3'	3800
20		10		1'	3900
				2'	3700
				3'	3700
5		15		1'	4000
				2'	3800
				3'	3600
45		175		1'	4000
				2'	4000
				3'	3800
50		180		1'	4100
				2'	3900
				3'	3900
50		170		1'	4000
				2'	3700
				3'	3500
50		190		1'	3900
				2'	3600
				3'	3500
35		175		1'	4000
				2'	3700
				3'	3500
45		185		1'	4100
				2'	3700
				3'	3600
40		170		1'	4000
				2'	3600
				3'	3600
40		187		1'	4100
				2'	3900
				3'	3800

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
35		185		1'	3900
				2'	3600
				3'	3500
30		170		1'	4100
				2'	3900
				3'	3800
40		180		1'	4000
				2'	3900
				3'	3700
25		175		1'	4100
				2'	3900
				3'	3800
30		190		1'	3900
				2'	3600
				3'	3500
20		170		1'	4000
				2'	3800
				3'	3500
30		180		1'	4100
				2'	3900
				3'	3700
15		175		1'	4000
				2'	4000
				3'	3700
25		185		1'	4000
				2'	3800
				3'	3700
20		190		1'	3900
				2'	3900
				3'	3400
20		180		1'	4100
				2'	3900
				3'	3700

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
10		190		1'	4100
				2'	4000
				3'	3800
15		185		1'	4100
				2'	3900
				3'	3800
5		175		1'	3500
				2'	3700
				3'	3800
0		180		1'	3800
				2'	3700
				3'	3700
5		185		1'	3800
				2'	3700
				3'	3700
0		190		1'	3800
				2'	3800
				3'	3600
10		180		1'	3900
				2'	3800
				3'	3600
105		25		1'	3900
				2'	3700
				3'	3500
10		180		1'	3900
				2'	3800
				3'	3600
10		110		1'	3900
				2'	3700
				3'	3600
100		20		1'	4000
				2'	3800
				3'	3600

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
15		105		1'	4000
				2'	3900
				3'	3800
90		20		1'	3900
				2'	3800
				3'	3700
0		110		1'	3900
				2'	3600
				3'	3600
105		20		1'	3800
				2'	3500
				3'	3500
0		90		1'	3900
				2'	3700
				3'	3600
90		10		1'	4200
				2'	4100
				3'	3900
20		100		1'	4100
				2'	3900
				3'	3700
5		65		1'	4000
				2'	3800
				3'	3700
100		10		1'	4000
				2'	3800
				3'	3800
	15	65		1'	H20
				2'	H20
				3'	H20
	15	55		1'	3900 6"
				2'	H20
				3'	H20

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
80		10		1'	3900
				2'	3600
				3'	3500
	15	45		1'	H20
				2'	H20
				3'	H20
5		45		1'	H20
				2'	H20
				3'	H20
0		30		1'	H20
				2'	H20
				3'	H20
	20	60		1'	H20
				2'	H20
				3'	H20
	20	50		1'	H20
				2'	H20
				3'	H20
	62	35		1'	10,000
				2'	11,000
				3'	NA
1	DIRT			1'	10,000
2	DIRT			2'	10,000
3	DIRT			3'	11,000
25N		105		1'	10,000
				2'	11,000
				3'	12,000
	20	110		1,	8,000
				2'	9,000
				3'	NA
35		115		1'	7,000
				2'	8,000
				3'	10,000

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
45		105		1'	6,000
				2'	6,000
				3'	7,000
	54	35		1'	10,000
				2'	10,000
				3'	10,000
	50	25		1'	9,000
				2'	H20
				3'	H20
40		110		1'	6,000
				2'	6,000
				3'	7,000
	50	110		1'	7,000
				2'	8,000
				3'	10,000
	35	20		1'	9,000
				2'	10,000
				3'	WATER
	5	75		1'	10,000
				2'	no read probe
				3'	no read probe
	5	55		1'	10,000
				2'	10,000
				3'	no read probe
	5	45		1'	11,000
				2'	10,000
				3'	9,000
65		185		1'	9,000
				2'	8,000
				3'	8,000
55		185		1'	10,000
				2'	9,000
				3'	8,000

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
70		190		1'	10,000
				2'	9,000
				3'	8,000
80		180		1'	11,000
				2'	9,000
				3'	9,000
60		190		1'	10,000
				2'	9,000
				3'	9,000
75		175		1'	10,000
				2'	9,000
				3'	NO READ
60		180		1'	9,000
				2'	9,000
				3'	8,000
75		185		1'	10,000
				2'	9,000
				3'	9,000
65		175		1'	9,000
				2'	9,000
				3'	9,000
70		180		1'	9,000
				2'	8,000
				3'	no read probe
55		175		1'	9,000
				2'	8,000
				3'	8,000
80		190		1'	9,000
				2'	9,000
				3'	8,000
55		165		1'	9,000
				2'	9,000
				3'	9,000

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
70		170		1'	11,000
				2'	10,000
				3'	9,000
60		160		1'	10,000
				2'	9,000
				3'	9,000
80		170		1'	10,000
				2'	9,000
				3'	9,000
65		165		1'	10,000
				2'	9,000
				3'	9,000
70		160		1'	10,000
				2'	10,000
				3'	10,000
80		160		1'	11,000
				2'	10,000
				3'	10,000
60		170		1'	9,000
				2'	9,000
				3'	8,000
75		165		1'	9,000
				2'	9,000
				3'	9,000
170		10		1'	9,000
				2'	9,000
				3'	9,000
175		25		1'	10,000
				2'	9,000
				3'	9,000
175		15		1'	11,000
				2'	10,000
				3'	9,000

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
180		10		1'	10,000
				2'	9,000
				3'	9,000
180		30		1'	10,000
				2'	9,000
				3'	9,000
185		20		1'	8,000 6"
				2'	REFUSAL
				3'	REFUSAL
180		20		1'	9,000 6"
				2'	REFUSAL
				3'	REFUSAL
185		15		1'	10,000
				2'	9,000
				3'	9,000
190		25		1'	9,000
				2'	9,000
				3'	9,000
185		35		1'	9,000
				2'	9,000
				3'	9,000
190		10		1'	10,000
				2'	10,000
				3'	no read probe
190		15		1'	8,000
				2'	no read probe
				3'	no read probe
170		20		1'	10,000
				2'	9,000
				3'	9,000
185		45		1'	9,000
				2'	9,000
				3'	8,000

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
170		30		1'	10,000
				2'	10,000
				3'	9,000
190		50		1'	10,000
				2'	9,000
				3'	9,000
189		41		1'	10,000
				2'	10,000
				3'	9,000
20		30		1'	9,000
				2'	9,000
				3'	9,000
40		23		1'	9,000
				2'	9,000
				3'	9,000
33		25		1'	10,000
				2'	10,000
				3'	9,000
10		30		1'	10,000
				2'	10,000
				3'	9,000
35		23		1'	10,000
				2'	9,000
				3'	9,000
30		28		1'	9,000
				2'	9,000
				3'	9,000
15		55		1'	10,000
				2'	10,000
				3'	REFUSAL
35		28		1'	9,000
				2'	9,000
				3'	9,000

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
5		105		1'	10,000
				2'	10,000
				3'	9,000
26		25		1'	9,000
				2'	9,000
				3'	9,000
23		28		1'	9,000
				2'	9,000
				3'	9,000
0		80		1'	15,000
				2'	10,000
				3'	10,000
5		100		1'	10,000
				2'	10,000
				3'	10,000
23		23		1'	9,000
				2'	9,000
				3'	8,000
13		85		1'	8,000
				2'	9,000
				3'	10,000
0		100		1'	10,000
				2'	10,500
				3'	10,000
0		105		1'	10,000
				2'	10,000
				3'	10,000
30		23		1'	9,000
				2'	9,000
				3'	7,000
42		23		1'	9,000
				2'	9,000
				3'	8,000

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
9		85		1'	10,000
				2'	10,000
				3'	10,000
42		28		1'	9,000
				2'	9,000
				3'	9,000
4		112		1'	9,000
				2'	8,000
				3'	7,000
	2	112		1'	9,000
				2'	9,000
				3'	9,000
54		23		1'	3,700
				2'	3,900
				3'	4,000
72		23		1'	4,000
				2'	4,000
				3'	3,900
67		26		1'	3,900
				2'	4,000
				3'	3,800
80		23		1'	3,900
				2'	3,700
				3'	3,700
70		28		1'	3,900
				2'	3,900
				3'	3,900
88		23		1'	3,800
				2'	3,900
				3'	4,000
55		23		1'	3,600 6"
				2'	REFUSAL
				3'	REFUSAL

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
95		23		1'	3,800
				2'	3,800
				3'	4,000
100		26		1'	3,800
				2'	3,800
				3'	3,700
86		28		1'	4,000
				2'	3,900
				3'	3,900
101		23		1'	3,900
				2'	3,900
				3'	3,900
83		26		1'	4,000
				2'	3,900
				3'	3,900
0		170		1'	4300
				2'	4200
				3'	3900
	10	170		1'	5000
				2'	4500
				3'	3900
	10	160		1'	4300
				2'	4100
				3'	4000
0		150		1'	3900
				2'	3800
				3'	3800
	10	150		1'	3800
				2'	3700
				3'	3700
	5	155		1'	4000
				2'	4200
				3'	3800

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
95		26		1'	4000
				2'	4000
				3'	R
90		26		1'	3700
				2'	H2O
				3'	H2O
	20	150		1'	4100
				2'	4200
				3'	4300
	20	140		1'	3600
				2'	4000
				3'	4300
147.5		122.5		1'	4800
				2'	4700
				3'	3900
145		120		1'	4300
				2'	4200
				3'	4000
147.5		127.5		1'	3900
				2'	4000
				3'	4000
150		125		1'	3900
				2'	4000
				3'	4000
145		130		1'	4200
				2'	4000
				3'	R
142.5		127.5		1'	3900
				2'	4000
				3'	4200
142.5		122.5		1'	4100
				2'	4100
				3'	4200

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
140		125		1'	4100
				2'	4200
				3'	4300
177		26		1'	3600
				2'	3900
				3'	3900
180		100		1'	3900
				2'	4100
				3'	4500
180		110		1'	4000
				2'	4400
				3'	R
175		105		1'	4000
				2'	4200
				3'	4500
175		115		1'	3900
				2'	4100
				3'	4500
175		125		1'	3700
				2'	3800
				3'	4000
175		135		1'	4300
				2'	4300
				3'	4600
175		145		1'	3900
				2'	3700
				3'	3500
175		20		1'	3900
				2'	3800
				3'	3700
177.5		22.5		1'	3900
				2'	3800
				3'	3800

Building 10 Borehole Gamma Logging
NaI Results

SAMPLE LOCATION					
North	South	East	West	Depth	NAI (cpm)
172.5		22.5		1'	2500
				2'	R
				3'	R
170		25		1'	3600
				2'	3800
				3'	H2O
172.5		27.5		1'	3600
				2'	3700
				3'	H2O
177.5		27.5		1'	3200
				2'	3400
				3'	H2O
180		25		1'	3600
				2'	3800
				3'	H2O

Building 10: Grid Intersection Static Surface Measurements

	Sample	Location		NaI (cpm)
North	South	East	West	
0		170		2300
0		130		2000
0		120		2100
0		150		2000
0		140		1900
0		160		3600
0		170		2100
0		180		2200
0		190		2500
0		40		2200
0		50		2800
0		60		2500
0		70		2400
0		90		2200
0		80		2400
0		10		2200
0		30		2000
0		20		2300
0		110		2000
0		170		2100
0		150		2200
0		105		6000*
0		100		6000*
5		125		2100
5		135		2100
5		145		2200
5		165		2200
5		175		2300
5		185		2400
5		155		2000
5		15		2400
5		45		2500
5		25		2000
5		65		2600
5		75		2500
5		85		2100
5		105		5500*
5		100		6000*
10		130		1900
10		120		1900
10		150		2200
10		140		2100
10		170		2400
10		160		2800
10		170		2300
10		160		2100

Building 10: Grid Intersection Static Surface Measurements

	Sample	Location		NaI (cpm)
North	South	East	West	
10		190		2300
10		180		2300
10		110		2200
10		30		2100
10		40		2100
10		50		2300
10		60		1900
10		10		2400
10		20		2300
10		100		2100
10		90		1800
15		175		2400
15		165		2300
15		145		2100
15		135		2000
15		165		2300
15		175		2100
15		185		2300
15		155		2000
15		25		2000
15		45		2100
15		65		2000
15		85		1800
15		95		1900
15		15		2300
15		105		2000
15		125		1700
20		150		2100
20		140		1900
20		180		2200
20		170		2200
20		160		2200
20		160		2000
20		170		1900
20		180		2300
20		190		2000
20		20		1900
20		40		2500
20		50		2500
20		60		2200
20		90		1800
20		10		2300
20		110		2100
20		100		1800
20		120		1900
20		130		1800

Building 10: Grid Intersection Static Surface Measurements

	Sample	Location		NaI (cpm)
North	South	East	West	
25		145		2100
25		175		2100
25		165		2100
25		165		2300
25		175		2200
25		185		2300
25		155		2000
25		15		2100
25		25		2100
25		125		2100
30		140		2100
30		150		1900
30		180		2300
30		170		2200
30		160		2200
30		170		2200
30		160		2100
30		190		2200
30		180		2600
30		20		2100
30		10		2100
30		130		2100
30		120		2200
35		145		2200
35		165		2400
35		175		2100
35		185		2600
35		155		1900
35		25		2500
35		15		1900
35		125		1900
40		140		2000
40		150		2000
40		160		2100
40		170		1900
40		180		2400
40		190		2100
40		20		2100
40		10		2100
40		120		2100
40		130		1900
45		145		2200
45		185		2300
45		165		2300
45		175		2200
45		155		2000

Building 10: Grid Intersection Static Surface Measurements

Sample Location				NaI (cpm)
North	South	East	West	
45		25		2700
45		15		2200
50		140		2000
50		150		2000
50		170		2100
50		160		2200
50		190		2200
50		180		2200
50		10		2400
55		145		2000
55		185		2100
55		165		2300
55		175		2100
55		155		2100
55		25		2100
55		15		2200
60		140		2000
60		150		2100
60		210		1900
60		130		1900
60		120		2000
60		160		2100
60		170		2100
60		180		2100
60		190		2100
60		20		1900
60		10		2600
65		145		2200
65		185		2400
65		135		1900
65		125		1800
65		165		2200
65		175		2100
65		155		2000
65		25		2000
70		180		2200
70		190		2100
70		140		2200
70		130		2000
70		150		2000
70		120		2100
70		170		2000
70		160		2300
70		190		2000
70		180		2300
70		220		2100

Building 10: Grid Intersection Static Surface Measurements

	Sample	Location		NaI (cpm)
North	South	East	West	
70		20		2000
70		10		2500
75		145		2200
75		135		2000
75		125		2500
75		185		2400
75		165		2300
75		175		2200
75		155		2000
75		25		2200
75		15		2200
80		120		1900
80		130		1900
80		150		2000
80		140		2100
80		150		2100
80		160		2100
80		170		2000
80		180		2200
80		190		2000
80		220		2000
80		20		2100
80		10		2000
85		145		2100
85		125		2000
85		185		2400
85		135		1900
85		165		2300
85		175		2100
85		215		2000
85		205		2100
85		155		2100
85		15		1900
87		25		2600
90		140		2400
90		150		2000
90		130		1900
90		120		1900
90		150		2100
90		170		2400
90		160		2300
90		190		2100
90		180		2400
90		220		2000
90		200		2200
90		210		2100

Building 10: Grid Intersection Static Surface Measurements

Sample Location				NaI (cpm)
North	South	East	West	
90		20		2200
90		20		2100
90		10		2200
95		145		2300
95		125		1900
95		185		2500
95		195		2300
95		205		2000
95		135		2500
95		165		2200
95		175		2200
95		215		2000
95		155		2000
95		25		2300
95		15		2200
100		140		2800
100		130		2000
100		150		2000
100		120		2000
100		150		2000
100		160		2200
100		170		2200
100		180		2500
100		190		2300
100		220		2000
100		210		2100
100		200		2200
100		20		2200
100		10		2300
105		145		2300
105		190		2600
105		180		2500
105		185		2300
105		175		2200
105		165		2200
105		195		2100
105		225		2000
105		215		2300
105		205		2000
105		155		2100
105		135		2400
105		25		2500
110		140		2200
110		130		2200
110		150		2100
110		190		2000

Building 10: Grid Intersection Static Surface Measurements

Sample Location				NaI (cpm)
North	South	East	West	
110		160		2200
110		190		2200
110		180		2300
110		200		2000
110		220		2100
110		210		2000
110		170		2000
115		135		2200
115		175		2000
115		165		2300
115		185		2400
115		195		1900
115		205		1900
115		215		2200
115		155		2200
120		130		1900
120		150		2300
120		160		2300
120		120		1900
120		180		2400
120		190		2200
120		210		2000
120		200		2000
120		220		2000
120		170		2100
125		175		2100
125		165		2400
125		195		2000
125		185		2300
125		205		2000
125		215		2000
125		155		2200
130		150		2000
130		160		2200
130		170		2000
130		190		2300
130		180		2300
130		220		2100
130		200		2100
130		210		2100
135		165		2100
135		155		2300
135		175		2300
135		145		2300
135		165		2200
135		195		2000

Building 10: Grid Intersection Static Surface Measurements

Sample Location				NaI (cpm)
North	South	East	West	
135		185		2300
135		205		2200
135		215		1900
140		160		2300
140		170		2200
140		180		2400
140		190		2200
140		210		2200
140		220		2300
140		200		1900
140		125		2000
142		122		2100
142		127		2200
145		175		2300
145		165		2200
145		195		1900
145		185		2200
145		235		1900
145		225		2000
145		215		2200
145		205		2100
145		120		2100
145		130		2100
147		122		2000
147		127		2100
150		170		2200
150		160		2200
150		190		2100
150		180		2300
150		200		2000
150		220		1900
150		240		2400
150		210		2100
150		230		2200
150		125		2200
155		185		2500
155		165		2000
155		175		2400
155		195		2300
155		205		1900
155		215		2000
155		185		2100
160		170		2300
160		180		2100
170		25		2100
170		170		2100

Building 10: Grid Intersection Static Surface Measurements

	Sample	Location		NaI (cpm)
North	South	East	West	
170		20		2700
170		10		5500*
170		20		5500*
170		30		5000*
172.5		22.5		2000
172.5		27.5		2200
175		115		2400
175		165		2300
175		155		2800
175		25		6000*
175		15		6000*
175		105		2400
175		115		2300
175		125		2200
175		135		2400
175		145		2300
177		26		1900
177.5		27.5		2300
180		25		2200
180		100		2200
180		110		2200
180		120		2000
180		130		2200
180		140		2300
180		150		2200
180		170		2200
180		160		2400
180		10		5500*
180		30		5000*
180		20		5500*
180		100		2200
180		110		2300
185		125		2100
185		115		2300
185		135		2200
185		145		2400
185		165		2100
185		20		6000*
185		15		5500*
185		35		5500*
185		45		6000*
189		41		6000*
190		120		2100
190		110		2400
190		100		2400
190		90		2300

Building 10: Grid Intersection Static Surface Measurements

Sample Location				NaI (cpm)
North	South	East	West	
190		70		2100
190		60		2200
190		50		2300
190		40		2200
190		160		2200
190		130		2100
190		25		5000*
190		10		6000*
190		15		5500*
190		50		5500*
195		35		2200
195		65		2400
195		55		2700
195		185		2200
200		60		2300
200		50		2300
	5	175		2300
	5	135		2100
	5	165		2600
	5	175		3500
	5	185		2500
	5	155		2200
	5	145		2300
	5	125		2200
	5	115		2200
	5	105		2500
	5	115		2200
	5	95		3400
	5	85		2400
	5	155		2100
	10	185		2100
	10	130		2100
	10	150		2100
	10	140		2300
	10	120		2300
	10	110		2200
	10	110		2300
	10	90		2200
	10	100		2200
	10	80		2000
	10	60		2400
	10	70		2500
	10	170		2000
	10	160		2200
	10	150		2100
	15	135		2200

Building 10: Grid Intersection Static Surface Measurements

	Sample	Location		NaI (cpm)
North	South	East	West	
	15	145		2500
	15	125		2200
	15	115		2200
	15	155		2400
	15	95		2400
	15	105		2600
	15	85		2400
	15	65		2500
	15	75		2500
* -- Measurements performed with a NaI 2" x 2" detector; nominal background approximately 5500 cpm				

Radiological Surveys of Open Land Areas

Texas Instruments Incorporated
Attleboro, Massachusetts

Appendix B5

Building 10 Perimeter and Building 10 Alleged Zirc Burning Area

Grid Cell Averages

Building 10 Perimeter and Building 10 Alleged Zirconium Burning Area: Grid Cell Averages

Location Grid	Location Sample	Sample I.D.	0-1'	1-2'	2-3'	3-4'	4-5'	5-6'
160 N X 120 E		B10-176	122	122	20	20	18	18
		B10-340	2	2	2	2	19	19
		B10-182	2	2	2	2	2	2
Average			**42**	**42**	**8**	**8**	**13**	**13**
150 N X 120 E		B10-176	122	122	20	20	18	18
		B10-340	2	2	2	2	19	19
		B10-182	2	2	2	2	2	2
		B10-338	100	100	19	19		
		B10-341	2	2	17	17	17	17
		B10-342	18	18				
		B10-174	27	27	16	16		
		B10-339	2	2	16	16	24	24
		B10-334	2	2	15	15	19	19
		B10-172	2	2	16	16		
		B10-343	2	2	19	19	2	2
		B10-345	2	2	2	2		
		B10-178	15	15	2	2		
Average			**23**	**23**	**12**	**12**	**14**	**14**
10 N X 150 E		B10-100	2	2	9			
		B10-111	2	2	2			
		B10-102	2	2	2			
		B10-117	2	32	13			
		B10-333	11	2	2	2	15	
Average			**4**	**8**	**6**	**2**	**15**	
10 N X 160 E		B10-111	2	2	2			
		B10-109	2	2	2			
		B10-107	2	2	2			
		B10-117	2	32	2			
		B10-332	17	17	2	2	2	
Average			**5**	**11**	**2**	**2**	**2**	
0 X 150 E		B10-117	2	32	2			
		B10-331	2	2			2	
		B10-333	2	2	2	2	15	
		B10-334	8	2	15	15	19	
		B10-335	2	2	2	2	2	
Average			**3**	**8**	**5**	**6**	**10**	

Building 10 Perimeter and Building 10 Alleged Zirconium Burning Area: Grid Cell Averages

Location Grid	Location Sample	Sample I.D.	0-1'	1-2'	2-3'	3-4'	4-5'	5-6'
0 X 160 E		B10-113	2	2				
		B10-117	2	32	2			
		B10-330	26	26	2	2	2	
		B10-331	2	2			2	
		B10-332	17	17	2	2	2	
Average			**10**	**16**	**2**	**2**	**2**	
0 X 110 E		B10-126	2	2	2	2	2	2
		B10-130	46	46	17	17	2	2
		B10-141	2	2	2	2	2	2
		B10-241	2	2	2	2		
		B10-315	23	2	2	2	2	2
Average			**15**	**11**	**5**	**5**	**2**	
10 S X 140 E		B10-119	39	2	16			
		B10-334	2	2	15	15	19	19
		B10-336	2	2	26	26	15	15
		B10-337	16	16	2	2	2	2
Average			**15**	**6**	**15**	**14**	**12**	**12**