TEXAS INSTRUMENTS INCORPORATED

Attleboro, Massachusetts

REMEDIATION OF EXTERIOR AREAS ADJACENT TO BUILDINGS 11 AND 12

NRC License/Docket No: SNM-23/70-33

FINAL REPORT

Version: 1.0

Prepared by

WESTON
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FIGURES

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ACRONYMS AND ABBREVIATIONS

Ag	silver
ANSI	American National Standards Institute
ASTM	American Society for Testing and Materials
CFR	Code of Federal Regulations
DAC	derived air concentration
EPP	exterior project plan
G-M	Geiger-Mueller
HASP	health and safety plan
HFIR	high-flux isotope reactor
M&C	Metals & Controls, Inc.
MPA	materials processing area
NaI	sodium iodide
NRC	U.S. Nuclear Regulatory Commission
NUREG	Nuclear Regulatory Agency
ORAU	Oak Ridge Associated Universities
ORISE	Oak Ridge Institute for Science and Environment
RCA	radiological controlled area
SNM	special nuclear materials (license)
SOP	standard operating procedure
TEDE	total effective dose equivalent
TI	Texas Instruments Incorporated
WESTON	Roy F. Weston, Inc.
ZnS	zinc sulfide

UNITS AND MEASUREMENTS

cpm	counts per minute
ft	feet
m	meter
μR	microroentgen
mrem	milliroentgen equivalent in man
pCi/g	picocuries per gram

1.0 INTRODUCTION

1.1 PURPOSE OF REPORT

This report provides documentation that exterior remediation activities performed by Roy F. Weston, Inc. (WESTON), in 1995 at the Texas Instruments Incorporated (TI) Attleboro Facility have been completed. Previous reports have documented surveys of other areas; this report documents the final radiological surveys of areas adjacent to Buildings 11 and 12. Remediation and surveys have been completed in accordance with:

- The TI radioactive materials license (Special Nuclear Materials [SNM]-23).
- The TI *1992 Remediation Plan*.
- The *Supplement to the 1992 Remediation Plan*.
- Nuclear Regulatory Agency (NUREG)/CR-5849, the *Manual for Conducting Radiological Surveys in Support of License Termination*.
- The U.S. Atomic Energy Commission Regulatory Guide 1.86, *Termination of Operating Licenses for Nuclear Reactors*.
- The U.S. Nuclear Regulatory Commission (NRC) *Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material*.

~ 1981 BTP

This report will also provide the NRC, Region 1, with support information to grant SNM-23 license termination.

ME-017117

1.2 SCOPING ACTIVITIES

Scoping activities for the WESTON Buildings 11 and 12 Exterior Remediation Project were completed in accordance with NUREG/CR-5849 and have been documented in previous submittals to NRC. Some of the reports submitted to the NRC over the past several years that were used to support and guide the WESTON remediation effort are:

Date	Subject	From
91-JUL-25	Amendment Request	TI
92-DEC-10	Radiological Survey Plan for Confirmation	ORISE
92-JUL-30	Approval Request for Remediation Plan for Low-Level Radiological Waste Burial Site	TI
93-JAN-25	Interim Radiological Survey Letter Report	ORISE

Date	Subject	From
93-FEB-04	Analysis, Gamma Spectroscopy, and Alpha Screening	ORISE
93-SEP-XX	Remediation of Former Radiological Waste Burial Site	TI
94-DEC-XX	Supplement to 1992 Remediation Plan, Rev. 0	TI
95-MAY-XX	Radiological Surveys of Open Land Areas, Rev. 0	TI
95-JUN-XX	Response to Comments	TI
95-OCT-02	Response to Comments	TI

1.3 BACKGROUND INFORMATION

The TI facility in Attleboro, Massachusetts, was owned and operated by Metals & Controls, Inc. (M&C), until 1959, at which time M&C merged with TI. The General Plate Division of M&C began processing nuclear materials in 1952. From 1952 through 1959, M&C fabricated uranium foils for reactor experiments and fuel components and reactor fuel cores for the U.S. Navy. Source Material License D-549 was issued, permitting acquisition and title to refine source material for the production of uranium foils; and SNM License SNM-23 was issued, permitting acquisition and title to enriched uranium for fabrication of the fuel components and cores. After the merger in 1959, TI continued fabricating reactor fuel cores for government research and production reactors in addition to the U.S. Navy nuclear program. Source materials (e.g., natural uranium, depleted uranium, and thorium) were used under the same programs. TI's involvement in the U.S. Navy's nuclear program continued into 1966. The final chapter of TI's nuclear business involved the fabrication of high flux isotope reactor (HFIR) fuels. The HFIR project spanned 13 years (1968 to 1981). By 1981, TI had disengaged from the HFIR project and, by so doing, permanently concluded its involvement with uranium fuel-element manufacturing. Work with nuclear materials was gradually reduced, beginning in 1968.

2.0 SITE INFORMATION

2.1 GENERAL SITE DESCRIPTION

The TI Attleboro Facility is located approximately 48 kilometers south of Boston on Route 123 (Figure 1). This report describes remediation activities and final surveys of areas located to the west and south of Building 12 and to the west of Building 11 (Railspur/Stockade Area) (Figure 1).

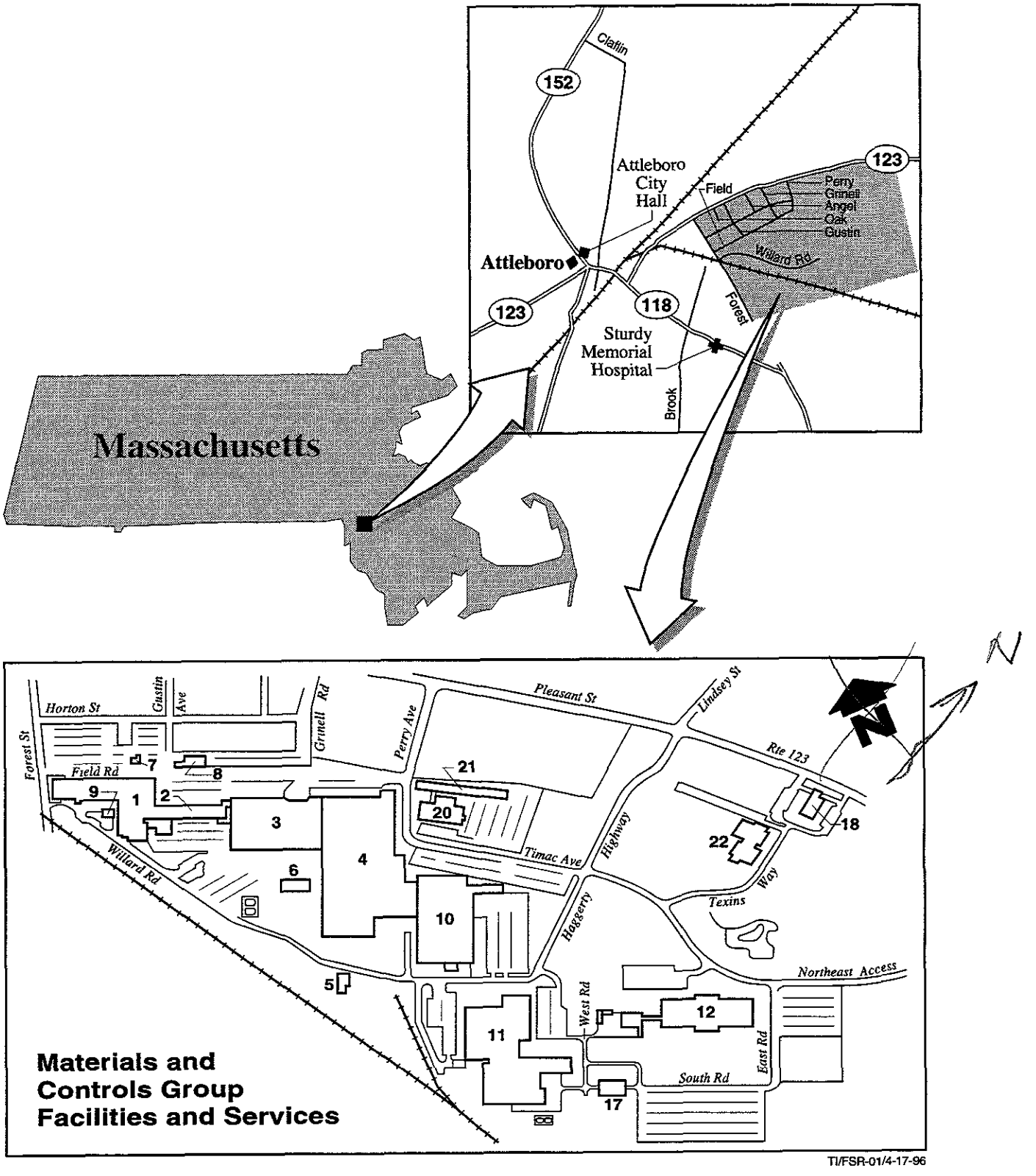

Figure 1. Map of Massachusetts and Attleboro Showing Location and Plan View of the Texas Instruments Site

ME-017119

2.2 HISTORICAL REMEDIATION AND CHARACTERIZATION USED TO SUPPORT THE WESTON EFFORT

Remediation of the Burial Site

TI previously remediated another area in the vicinity of Building 12, the Building 12 Burial Site, and submitted the *Remediation Plan for the Identified Building 12 Burial Area* (the *1992 Remediation Plan*) to NRC in July 1992. NRC approved the plan in August 1992 in Amendment No. 16 to the license.

On August 31, 1992, TI initiated the Burial Site remediation. The project was completed in July 1993. TI documented the project activities and the survey results in a final report dated September 1993.

In December 1993, NRC and its contractor (Oak Ridge Institute for Science and Environment [ORISE], formerly known as ORAU) conducted a confirmatory survey of the Building 12 Burial Site. ORISE issued a survey report in February 1994 and concluded that the Burial Site remediation had met the NRC guidance criteria contained in the 1981 Branch Technical Position for unrestricted release.

Remediation of the Metals Recovery Area

In March 1994, TI notified NRC of its intent to remediate the Metals Recovery Area in the vicinity of Building 5 to the ~~northeast~~ west of Building 11 and received NRC approval to proceed with the remediation. Remediation activities began on April 28, 1994, and were completed by November 14, 1994. TI submitted termination survey results to NRC in a final report dated February 1996.

Have not been submitted yet

Radiological Surveys of Open Land Areas

In July 1994, TI began performing radiological characterization and surveys of open land areas at the facility. Field work was completed by December 1994 and a ~~characterization~~ supplemented radiological survey report was submitted to NRC in May 1995. The remediation performed in the Building 11 and 12 areas was based on findings from this ~~characterization~~ supplemental radiological survey.

2.3 SITE CONDITIONS AT THE TIME OF FINAL SURVEY FOR REMEDIATION ACTIVITIES

Based on the *Radiological Surveys of Open Land Areas Report* (May 1995), an approximately 7,700-square-meter (m^2) area in the proximity of Buildings 11 and 12 was contaminated above the site cleanup criteria of 30 picocuries per gram (pCi/g). At the time of remediation, the depth of contamination in these areas was believed to range from the surface to depths of 10 feet (ft), with average grid total uranium concentrations ranging from 8 pCi/g to 823 pCi/g.

At the time of the final survey, all but 3 of the 93 grid areas that were excavated were remediated below the radiological cleanup criteria of 30 pCi/g. Exceptions to the cleanup criteria were made during remediation activities when utilities critical to facility operations were encountered or worker health and safety were compromised by continued operations. These exceptions were based on precedence from past remediation efforts that were approved by the NRC. These limited exceptions are documented in Attachment F.

2.4 RELEASE GUIDELINES

Would this sound more consistent with Supplement Plan if we called it EU measured as total U

Section 3.3.1 of the Supplement to the 1992 Remediation Plan (December 1994) defines volumetric release criteria for soils to be removed during the remediation of contaminated exterior soil areas at the TI Attleboro Facility. These release criteria are 30 pCi/g for total uranium other than depleted (uranium-234, -235, and -238) and 35 pCi/g for depleted uranium. The acceptable exposure rate at 1 m above the surface as prescribed by the NRC is 10 microroentgen per hour (μR/hr) above background. In addition to the volumetric contamination criteria, surface contamination levels on personnel, equipment, and materials leaving radiological controlled areas (RCAs) must (could (?)) not exceed the surface contamination limits specified in Regulatory Guide 1.86, *Termination of Operating License for Nuclear Reactors*, Table I, and Appendix E of the *Supplement to the 1992 Remediation Plan*.

3.0 MANAGEMENT AND PROJECT ORGANIZATION

3.1 MANAGEMENT POLICY

TI's goal was to remediate all exterior areas that exceeded the release guidelines. The effort was based on the 1994 ~~characterization~~ supplemental radiological survey, which estimated that 77 10-by-10-m grids would require remediation. The actual number of grids remediated was 93. When contamination was discovered outside the original 77 grids, TI management remained committed to remediating all exterior areas to the prescribed release guideline of 30 pCi/g.

3.2 PROJECT ORGANIZATION AND RESPONSIBILITIES

WESTON was retained by TI as a construction project manager. WESTON employees provided services that included the site superintendent and project health and safety and health physics support. In addition, WESTON retained over 15 second-tier subcontractors to provide the variety of services required for the project (Figure 2).

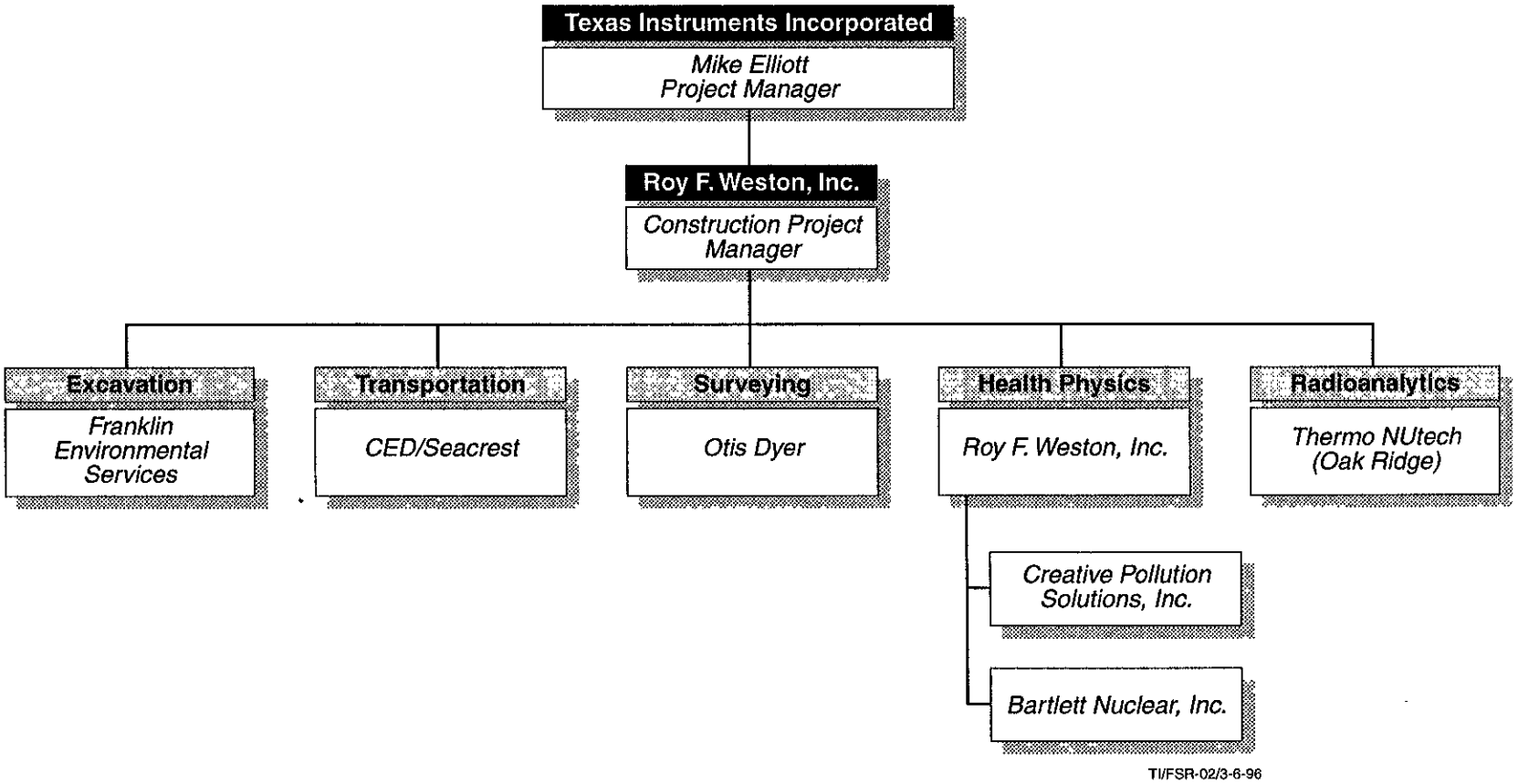

Figure 2. Project Organization

As the remediation/construction management contractor, WESTON was responsible for providing project planning, technical expertise for regulatory interaction and permitting, subcontractor procurement, site construction management, health and safety oversight, health physics support, and project close-out/termination activities. WESTON was also responsible for providing professional health physics and safety staff and for subcontracting with Bartlett Nuclear, Inc., for the health physics technician staff. Creative Pollution Solutions, Inc., was subcontracted to provide technical expertise and historical knowledge of past remediation and characterization efforts.

Franklin Environmental Services provided the majority of the subcontractor services, primarily construction remediation services. Approximately 15 other subcontractors were used by WESTON to perform the site remediation work. Subcontractor services ranged from temporary secretarial help to railroad repair.

4.0 REMEDIATION ACTIVITIES

The following section provides a brief description of exterior soil areas remediated at the TI Attleboro Facility from June 1995 to December 1995. Data from the 1994 ~~characterization~~ supplemental radiological survey were used to determine the scope of excavation activities. Contaminated materials in the remediation areas consisted of debris, glacial rock, and soil; these materials were transported to the materials processing area (MPA), where excavated material segregation and decontamination was performed. Potentially contaminated water was pumped out of excavations and transported by tanker truck to the MPA. Soil remediation was performed using fugitive dust control techniques to manage airborne particulates. Water, covers, and calcium chloride agents were used, as necessary, to control dust generation from contaminated materials as they were removed and transported to the MPA. Standard construction-type equipment was used for soil and utility removal work. The construction remediation equipment typically consisted of excavators, front-end loaders, a rock screener, dump trucks, compactors, water tanker trucks, and other small miscellaneous tools.

As the soil remediation tasks were completed, final radiation surveys were performed. Verification samples were archived for future confirmatory analysis by the NRC.

4.1 BUILDING 12 EXCAVATIONS

The contaminated areas in the West Lawn Area and South Lawn Area adjacent to Building 12 were remediated in separate phases. This phased approach was adopted to minimize impacts to the manufacturing facilities and to simplify health and safety control of the remediation areas. Each area is discussed in the following sections.

4.1.1 West Lawn Area

Five 10-by-10-m grids were fully or partially remediated in the Building 12 West Lawn Area. Characterization data from the Radiological Surveys of Open Land Areas, May 1995, Report identified these grids as having average contamination ranging from 32 to 115 pCi/g at depths from 0 to 8 ft. Figure 3 presents the exact locations of these contamination areas. Average depths of excavation ranged from 2.8 to 9.5 ft. A total of 20,412 cubic feet (ft^3) of potentially contaminated soil that exceeded the release guidelines was excavated from this area and transported to the MPA.

Where do we discuss the Thermal Ice Storage Facility Excavation?

4.1.2 South Lawn Area

Thirty-nine 10-by-10-m grids were fully or partially remediated in the Building 12 South Lawn Area. Characterization data from the Radiological Surveys of Open Land Areas, May 1995, Report identified these grids as having average contamination ranging from 30 to 149 pCi/g at depths from 0 to 10 ft. Figure 3 presents the exact locations of these contamination areas. Average depths of excavation ranged from 4 to 10.5 ft. A total of 145,584 ft^3 of potentially contaminated soil that exceeded the release guidelines was excavated from this area.

Where do we discuss Hill south of Bldg 17 excavation & BIO Lab Wing?

4.2 BUILDING 11 EXCAVATIONS

The contaminated areas in the Stockade Area and Railspur Area adjacent to Building 11 were remediated in separate phases to minimize impacts to the manufacturing facilities and to simplify health and safety control. Each area is discussed in the following sections.

4.2.1 Stockade Area

Thirty-seven 10-by-10-m grids were fully or partially remediated in the Building 11 Stockade Area. Characterization data from the Radiological Surveys of Open Land Areas, May 1995, Report identified these grids as having average contamination ranging from 8 to 471 pCi/g at depths from 0 to 10 ft. Figure 4 presents the exact locations of these contamination areas. Average depths of excavation ranged from 2.8 to 9.5 ft. A total of 100,926 ft^3 of potentially contaminated soil that exceeded the release guidelines was excavated from this area.

4.2.2 Railspur Area

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Twenty-four 10-by-10-m grids were fully or partially remediated in the Building 11 Stockade Area. Characterization data from the Radiological Surveys of Open Land Areas, May 1995, Report identified

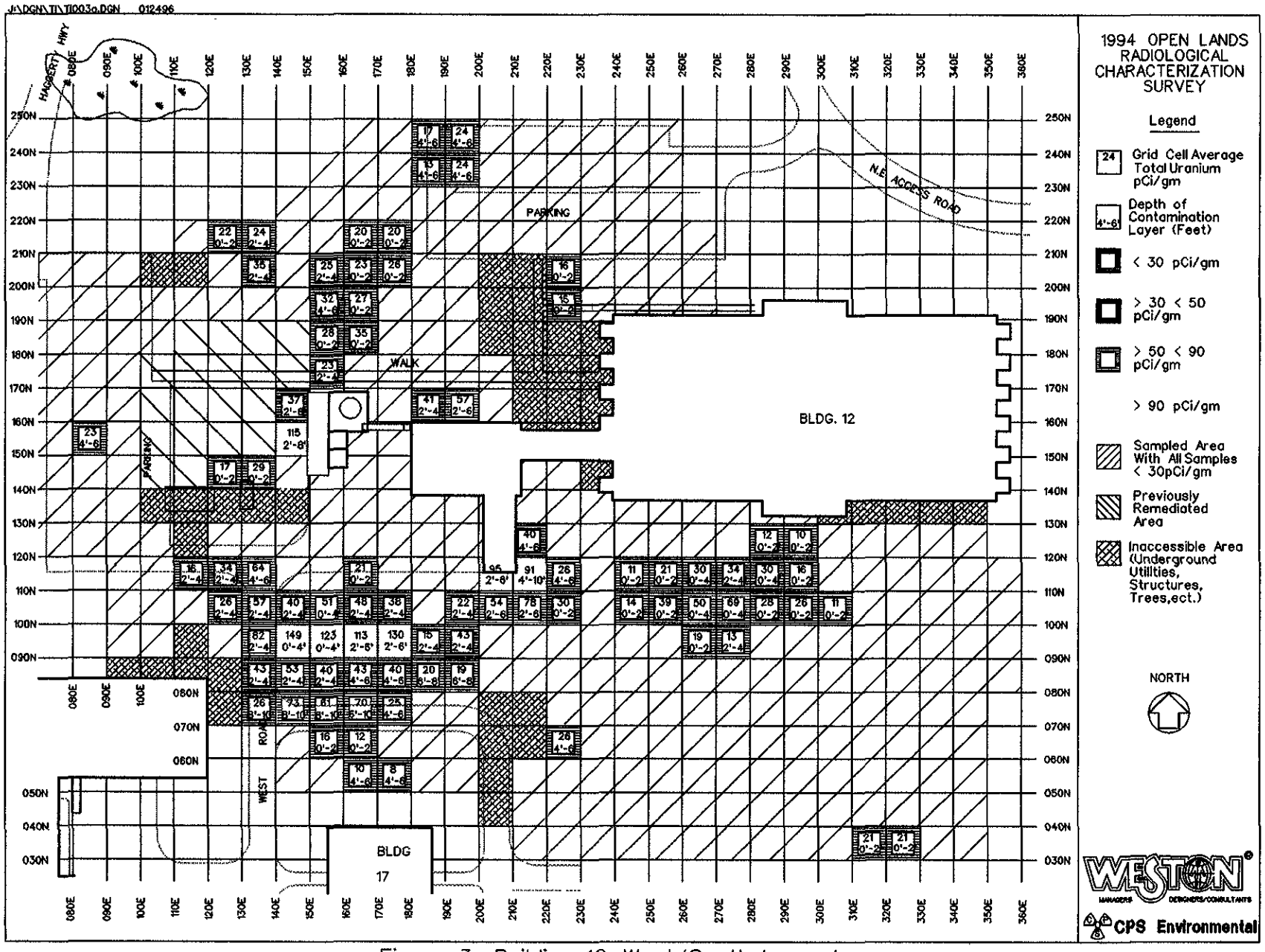

Figure 3. Building 12 West/South Lawn Areas.

Should we delineate West Lawn, South Lawn, and Thermal Ice Storage?

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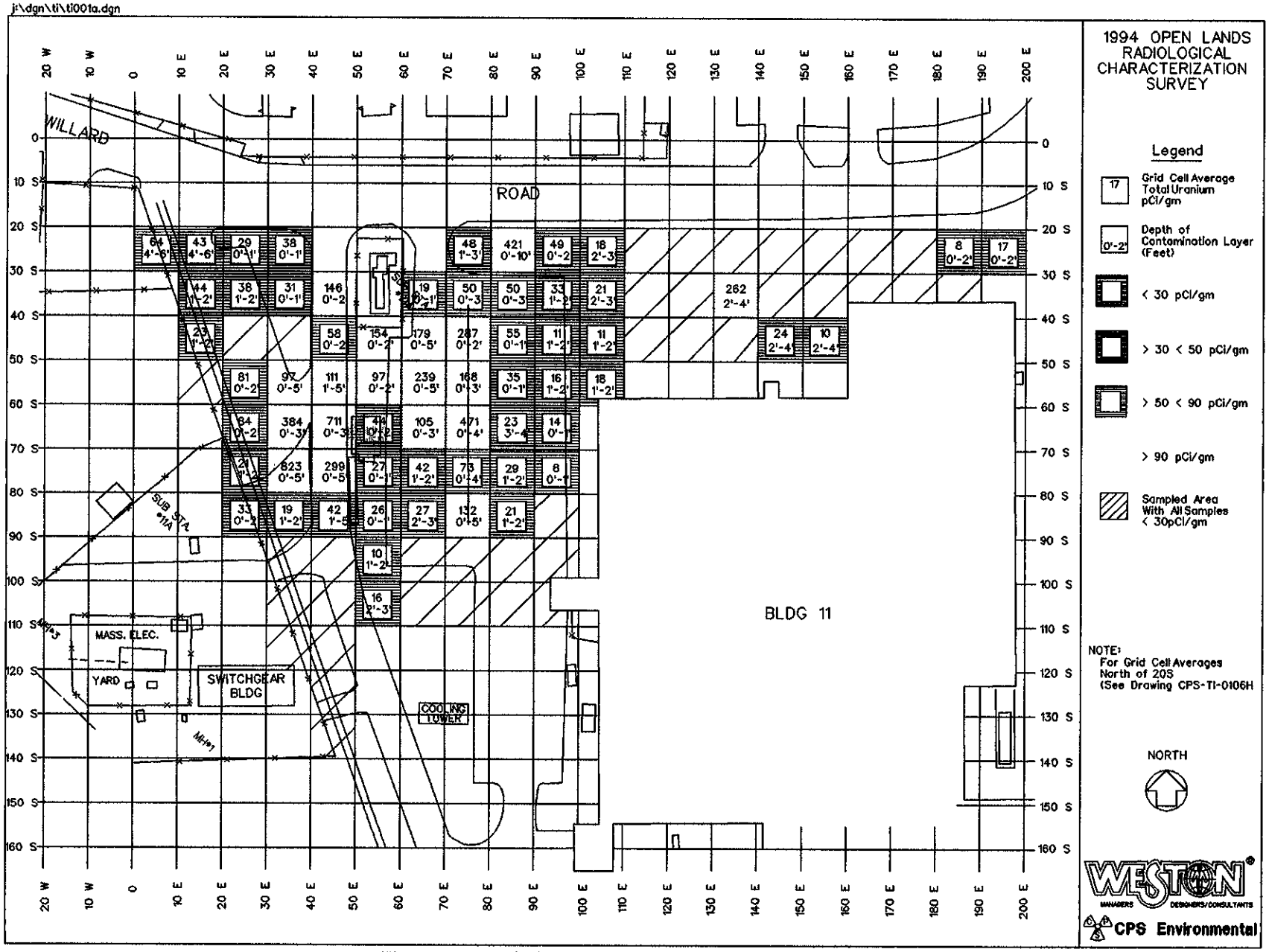

Figure 4. Building 11 Railspur/Stockade Areas.

Should we delineate Stockade Area from Railroad Spur Area?

these grids as having average contamination ranging from 19 to 823 pCi/g at depths from 0 to 6 ft. Figure 4 presents the exact locations of these contamination areas. Average depths of excavation ranged from 2 to 6.5 ft. A total of 76,221 ft^3 of potentially contaminated soil that exceeded the release guidelines was excavated from this area.

4.3 SOIL PROCESSING AND ROCK WASHING

As contaminated material was removed from the excavation areas it was transported to the MPA, which was located in parking lot R south of Building 12. Once in the MPA, the material was mechanically screened and segregated into soil, rock, and debris piles. The rock was washed to remove residual contaminated soil from the surface and then surveyed for free release in accordance with NRC *Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material*. Six thousand tons of rock was decontaminated and released from the MPA. After release from the MPA, the rock was crushed, staged in an open area east and south of parking lot S, and used for onsite backfill and road pack. The excess decontamination water was collected in a fractionation tank, filtered, and effluent-discharged to the storm sewer in accordance with the National Pollutant Discharge Elimination System (NPDES) permit. Discharge monitoring results are discussed in Section 4.5.4.

4.4 WASTE DISPOSAL

All waste generated as a result of remediation activities was disposed of at the EnviroCare of Utah, Inc., facility in Clive, Utah. The major waste streams from the remediation activities consisted of soil, metal debris, and personal protective equipment. A total of ____ railcar shipments containing _____ ft^3 of waste was transported to EnviroCare of Utah, Inc. The total activity waste generated was _____Ci of total uranium, which contained ____ grams of U-235 special nuclear material.

4.5 HEALTH AND SAFETY/COMPLIANCE STATISTICS

The remediation activities were conducted under an approved WESTON Health and Safety Plan (HASP), which is included as Section 6.0 of the exterior project plan (EPP). This plan addressed construction and industrial hazards, hazardous materials, and radiological safety. It also established all monitoring requirements and programs. All subcontractor safety plans and documentation were required to be as stringent as the WESTON HASP and were reviewed by the WESTON site health physicist and site health and safety coordinator. All subcontractor personnel attended site radiological and standard health and safety training prior to performing onsite work. Daily safety briefings were conducted prior to commencement of work.

4.5.1 Lost-Time Injuries

During the period that remediation operations were conducted (June 1995 to May 1996), no lost-time injuries occurred. This represents approximately 15,211 labor hours of work performed by subcontractor personnel from Franklin Environmental Services, Inc.; Otis Dyer Surveyors, Inc.; Walsh Construction, Inc.; Onsite Environmental, Inc.; Creative Pollution Solutions, Inc.; Deangelis Railroad Contractors; National Renta Fence, Inc.; Winthrop Old Farm Nursery, Inc.; PSI; Ferreira Construction, Inc.; Tibbetts Engineering; and Bartlett Nuclear, Inc. WESTON personnel performed 8,068 labor hours of work.

4.5.2 Personnel Dose Summary

WESTON and subcontractor dose summaries were prepared for the third and fourth quarters of 1995 and for the first quarter of 1996. Dose summaries included contributions from external and internal exposure sources, calculated based on thermoluminescent dosimeter badge results and area and personnel air sampling data. All worker total effective dose equivalent (TEDE) results were less than 20 milliroentgen equivalent in man (mrem) in each quarter. All worker TEDEs were considerably less than the acceptable federal limit of 1,250 mrem per calendar quarter. Personnel exposure records and data are maintained on file at the TI Attleboro Facility.

4.5.3 Air Sampling/Offsite Emissions

Table 1 lists the monthly average percentage of the 10 Code of Federal Regulations (CFR) Part 20, Appendix B, Table 1, Column 3, derived air concentration (DAC) of uranium for work area samplers and personnel lapel samplers during remediation activities. Air sample data are on file at the TI Attleboro Facility. In most cases, the lapel samples exhibited a higher percentage of DAC than the area samplers because the lower volume of air in the lapel samples gave a higher minimum detectable activity reading. During remediation operations, no air sample exceeded 25 percent of the DAC, which was the site administrative as low as reasonably achievable action limit.

Table 1. Average Air Sample Results

Month of 1996	% of the DAC - Area Sampler	% of the DAC - Personnel Sampler
July	<1	5
August	<1	3
September	<1	3
October	<1	4
November	<1	3
December	<1	4

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4.5.4 Effluent Discharges

TI obtained an NPDES permit exclusion for the discharge of the rock wash water filtered effluent. The filtered water was sampled weekly to ensure that concentrations were below the allowable limits prescribed in 10 CFR Part 20, Appendix B, Table II, concentrations for uranium. The average weekly concentration for uranium-234, -235, and -238 in water discharged for the duration of the remediation project was 96, 5, and 97 pCi/L, respectively. This translates to 32 percent, 2 percent, and 32 percent of the 10 CFR Part 20 limit. The maximum concentrations of uranium-234, -235, and -238 in water discharged for the project at any one time were 983, 52, and 1,051 pCi/L, respectively. This translates into 328 percent, 17 percent, and 350 percent of the 10 CFR Part 20 limit. This discharge, at a maximum, represented less than 1.5 percent of the 1,104,970 gallons discharged for the duration of the project and was a one-time event that can be attributed to a filter failure. The filters were replaced. This discharge, at this low of a percentage, was well below the limit for a weekly average and represents a low risk to the public and the environment. Water sample analysis results are on file at the TI Attleboro Facility.

5.0 FINAL SURVEY OVERVIEW

5.1 SURVEY OBJECTIVES

The purpose of the final survey was to demonstrate that the radiological conditions in the exterior areas remediated by WESTON in 1995 at the TI Attleboro Facility satisfied the NRC guidelines and that these areas can be released for unrestricted use. Specific objectives of the survey were to present the following:

- The average total uranium concentrations in the exterior soils are at or below the NRC guideline value of 30 pCi/g.
- Reasonable efforts had been made to identify, evaluate, and remove, if necessary, areas of residual contamination exceeding the guideline values.
- Exposure rates at 1 m from the surface do not exceed 10 μR/hr above background.

5.2 SURVEY PROCEDURES

Survey plans and standard operating procedures (SOPs) were developed in accordance with NUREG.CR-2082, *Monitoring for Compliance With Termination Survey Criteria,* and NRC guidance as expressed in the TI *1992 Remediation Plan* and *Supplement to the 1992 Remediation Plan*. NUREG/CR-5849, the *Manual for Conducting Radiological Surveys in Support of License Termination*, was used as a source for calculational methods in data interpretation.

5.2.1 Area Classification

To establish the sampling and measurement frequency and pattern, the site was divided into affected and unaffected areas during the 1994 supplemental radiological characterization survey of open land areas. Figures 2 and 3 present the affected areas adjacent to Buildings 11 and 12 that required final survey following remediation. The basis for the classification of these areas may be found in the *Supplement to the 1992 Remediation Plan* and in Section 4.2.1 of NUREG/CR-5849, the *Manual for Conducting Radiological Surveys in Support of License Termination*.

5.2.2 Reference Grids

A professional engineer registered in Massachusetts and a licensed surveyor established 10-by-10-m grids throughout the affected areas around Buildings 11 and 12 at the TI Attleboro Facility. These grids were established on Massachusetts state grid coordinates to provide a permanent reproducible reference for sampling locations and survey measurements. This same reference grid system was used for the 1994 supplemental radiological characterization survey.

5.2.3 Standard Operating Procedures

WESTON and its subcontractors used a variety of SOPs to efficiently and safely execute remediation and final survey activities at the TI Attleboro Facility. SOPs fall into three primary categories: radiological and occupational safety, characterization and decontamination operations, and support functions.

The breakdown of these procedures is as follows:

Radiological Safety/Occupational Health and Safety Procedures

SOP 1.0	Worker Training Requirements
SOP 2.0	Radiation Work Permit Preparation
SOP 3.0	Access Control
SOP 4.0	External Dosimetry Program
SOP 5.0	Internal Dosimetry Program
SOP 6.0	Respiratory Protection Program
SOP 7.0	Personnel and Equipment Frisking with Ludlum Model 12/Model 43-5
SOP 12.0	Air Particulate Monitoring with Real-Time Aerosol Monitor
SOP 14.0	Heavy Equipment Inspection and Operation
SOP 20.0	Intermediate Volume Air Particulate Sampling
SOP 21.0	Heat Stress Prevention and Monitoring
SOP 28.0	Personal Air Particulate Sampling
SOP 34.0	Measurement of Gamma-Ray Fields

Characterization and Decontamination Operations

SOP 8.0	Operation of Ludlum Model 2350 Data Logger/43-68 Probe or Model 239-1F Floor Monitor
SOP 9.0	Personnel Decontamination Procedure
SOP 10.0	Function Check of Portable and Stationary Radiation Detection Instrumentation
SOP 11.0	Removable Alpha Contamination Measurements with Ludlum Model 2000 Scaler/Model 43-10 Alpha Tray Counter
SOP 29.0	Preparation of Soil Samples for Gross Alpha Counting with Large-Area Alpha Detector (Ludlum Model 43-1)
SOP 30.0	Gross Alpha Counting of Soil Samples with Large-Area Alpha Detector (Ludlum Model 43-1)
SOP 31.0	Collection of Surface Soil Samples
SOP 35.0	Excavation Control Using Geiger-Mueller (G-M) Pancake and Plastic Beta Scintillation Detectors

Is this the system set-up in the trailer?

Answered in 5.5

Support Functions

SOP 27.0	Sample Archival Procedure
SOP 32.0	Transportation of Radioactive Materials
SOP 33.0	Exterior Sampling Identification Procedure
SOP 36.0	Log Book Use and Control

The SOPs may be found in Section 9.0 of the EPP.

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5.2.4 Soil Surface Scans and Exposure Rate Measurements

Scanning soil surfaces to identify locations of residual surface and near-surface uranium contamination and elevated gamma surface activity were performed using the following methods:

- One hundred percent of the 10-by-10-m grid area was surveyed for alpha/beta/gamma radiation using a Ludlum ratemeter coupled to a G-M pancake detector. The measurements being recorded in counts per minute (cpm). The surveys were performed in accordance with SOP 35.0.

- One hundred percent of the 10-by-10-m grid area was surveyed for gamma radiation using a Ludlum scaler/ratemeter coupled to a 2-by-2-inch sodium iodine (NaI) scintillation detector. Measurements were recorded in cpm at the grid corners. The surveys were performed in accordance with SOP 34.0.

- One hundred percent of the 10-by-10-m grid area was surveyed for gamma exposure rate at the surface and at 1 meter from the surface. The gamma exposure survey used a Ludlum μR meter; the exposure rate measurements at the grid corners were recorded in μR/hr. The surveys were performed in accordance with SOP 34.0.

5.2.5 Soil Sampling

Soil sampling with onsite gross alpha analysis was the primary method used to determine if the release criteria of 30 pCi/g of total uranium were present. The soil sampling in affected areas included the following:

- ***Preliminary Sampling*** — The preliminary sampling protocol was implemented in accordance with SOP 31.0 once health physics technicians determined, by surface survey with a G-M pancake detector, that all areas of the 10-by-10-m grid were less than two times background. Thirteen soil samples were collected in a pattern and sample density consistent with NUREG CR-5849, Figure 4-5, page 4.18.

- ***Verification Sampling*** — Verification sampling was implemented if gross alpha screening results from the preliminary sampling averaged less than 30 pCi/g total uranium for the grid cell. Five verification samples were collected in accordance with SOP 31.0. These following a modified sample pattern presented in NUREG CR-5849, Figure 4-4, page 4.17. The verification pattern was slightly modified to include a sample collection location at the center point of the grid cell.

A composite sample from 5 locations...?

5.3 INSTRUMENTATION

Four types of scientific equipment were maintained onsite, including portable health and safety monitoring equipment, portable radiation detection equipment, portable calibration equipment, and stationary radiation detection instrumentation. Portable equipment was used in standard work areas and RCAs, while stationary radiation detection equipment was operated solely within the WESTON field trailer. Equipment model numbers and monitoring characteristics or functions are included in Table 2.

All equipment was operated according to the requirements of the SOPs and manufacturer's specifications (presented in Section 8.2.0 of the EPP). All equipment was subject to a full calibration in accordance with American Society for Testing and Materials (ASTM)/American National Standards Institute (ANSI) methods using National Institute of Standards and Technology reference radioactive sources and secondary standards. SOP 10.0 in Section 9.0 of the EPP identifies a method and frequency to perform response and function checks. These checks were documented and performed at least daily. Any instrument or equipment failing a function check and then subsequently being repaired was re-calibrated before being put back into service. All calibrations were documented using standard calibration forms, which are on file at the TI Attleboro Facility.

Table 2. Radiation Detection Instrumentation

Manufacturer	Model	Description	Application
Ludlum	12	Ratemeter	Frisking
Ludlum	43-5	Alpha Scintillator	
Ludlum	2000/2200	Scaler	Swipe Analysis
Ludlum	43-10	Alpha Tray Counter	Air Sample Analysis
Ludlum	12	Ratemeter	General Contamination Monitoring
Ludlum	44-9	G-M Detector	Excavation Control Monitoring
Ludlum	2221/2300/2200	Ratemeter/Scaler	Soil/Concrete
Ludlum	43-1	Alpha Scintillator	Sample Analyses
Ludlum	2221	Ratemeter/Scaler	General Contamination Monitoring
Ludlum	44-1	Beta Scintillator	Excavation Control Monitoring
Ludlum	2221	Ratemeter/Scaler	Gamma Count Rate Surveys
Ludlum	44-10	NaI(Tl) 2X2 Detector	
Ludlum	19	Micro-R Meter	Gamma Exposure Rates

Large area (?)
Answered in 5.5

5.4 BACKGROUND LEVELS DETERMINATION

Background activity levels for this phase of the remediation and final survey were determined for soil total uranium concentrations, for gross alpha counting of soils, for gamma exposure rate and count rate of soils, and for beta-gamma count rate surveys of soils for excavation control. Direct background measurements and samples were collected at seven locations in unaffected areas on TI property and in the surrounding communities. The background locations and measurements are described and documented in WESTON Log Book #455.

with respect to release criteria: Did we calculate net activity concentration by subtracting background?
Answered in 5.6

5.5 SAMPLE ANALYSIS

Sample analysis for the final survey incorporated a variation of the alpha soil screening protocol that was used during the TI facility characterization study that is described in Appendix C of the *Supplemental Radiological Survey Plan* (December 1994). The analytical instrumentation used for the final (1995) remediation survey detects alpha radiation by the same theory as the previous (1994) system, but is set up in a different geometry. The previous detection system methodology used zinc sulfide (ZnS) (silver [Ag]) in direct contact with the soil in a petri dish. The petri dish was then placed on top of a photomultiplier tube in a light-tight container and then counted. The WESTON counting system uses an alpha scintillation detector (Ludlum Model 43-1) that contains an 83-cm^2 Mylar window with an active area of 75 cm^2, a ZnS (Ag) layer, a light pipe, and a photomultiplier tube housed in a light-tight probe.

Soil samples were collected and processed according to SOP 29.0. After processing, the samples were placed in a constant geometry sample holder directly under the Ludlum 43-1 probe and counted for 10 minutes according to SOP 30.0.

The field gross alpha counting system was correlated to known analytical results from an outside analytical laboratory. Twelve archive samples from the 1994 ~~characterization~~ supplemental radiological study were split and sent to an outside laboratory for isotopic uranium analysis. The sample isotopic results were summed for total uranium activity, which ranged from 3.01 to 60.7 pCi/g. The splits from these samples were processed according to SOP 29.0 and counted eight times each (SOP 30.0). The average gross counts/10 minutes were then correlated with the offsite analytical results through a linear regression. The slope of this comparison provided a calibration factor for converting the counts/10 minutes to pCi/g. Calibration and further explanation of the field counting system was provided to NRC in response to NRC comments on October 2, 1995.

Verification samples from each grid cell were composited, split, and counted with the onsite system. The quality assurance splits were then sent to an offsite analytical laboratory for isotopic uranium analysis.

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5.6 DATA INTERPRETATION

Data conversions and evaluations were performed as established in the TI radioactive materials license (SNM-23); the TI *1992 Remediation Plan*; the *Supplement to the 1992 Remediation Plan*; NUREG/CR-5849, the *Manual for Conducting Radiological Surveys in Support of License Termination*; and the TI EPP and SOPs. Calibration methods complied with ANSI N323-1978 and ASTM standards. All measurement data were converted to units consistent with the regulatory requirements and guidelines. Exposure rate and gamma count rate measurements were corrected for contributions from the natural site background. No soil sample results were corrected for natural background concentrations of uranium.

All in-place soil data were averaged and compared to the site guideline level of 30 pCi/g. Weighted averages ~~for~~ the grid cells were calculated and compared to the guideline when elevated areas inside the grid cell were found.

What does this involve? I'm not sure we ever did this in the past, nor am I sure that we ever informed NRC of such a protocol. Is there a risk that we'll open up a new issue for NRC to feel compelled to review and approve?

5.7 RECORDS

All verification samples and survey data for this project have been archived at the TI facility. Duplicate records are stored at the WESTON office in Albuquerque, New Mexico. The project filing system key is presented in Attachment 1.

6.0 SURVEY FINDING AND RESULTS

6.1 BACKGROUND LEVELS

Background data for the final survey for the WESTON Exterior Remediation Project are presented in Table 3.

Table 3. Background Soil Results

Background Location Number	Ludlum Model 44-9 G-M Pancake Detector (cpm) (*)	Ludlum Model 44-1 Beta Scint. (cpm)	Ludlum Model 43-1 Alpha Scint. Gross Alpha (counts/10 min.)	Ludlum Model 19 (μR/hr)	Ludlum Model 44-10 Gamma Scint. (cpm)	Gross Alpha Screening (pCi/g)
1	65-70	57	72	9	3221	12
2	60-70	68	60	9	3370	7
3	70-90	55	52	8	2996	2
4	40-60	62	41	8	2996	1
5	70-90	79	64	9	3637	8
6	60-70	61	62	9	3441	8
7	80-100	71	49	10	3688	1

(*) The Ludlum 44-40 shield G-M pancake detector background is equal to the Ludlum Model 44-9 G-M pancake detector.

What's the relationship/difference between these two?

6.2 AFFECTED AREAS SURVEY

The grid cell final survey database is presented in Attachment 2. The bar charts in Attachment 3 depict sample average concentration for each grid cell compared to the guidelines. The bar charts in Attachment 4 present quality assurance results for onsite gross alpha analysis of composite samples and the quality assurance split-sample offsite analytical results. Grid cell gamma exposure rate and gamma count rate survey data are presented in Attachment 5. The grid cell data summary is found in Attachment 6. Figures 5 and 6 provide the final survey results.

6.3 DATA EVALUATION

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The comparison of the weighted average activity levels of all survey units with the applicable guidelines indicated that the guidelines were satisfied, with the exception of three grid cell survey units. The three units are located in the Building 11 Stockade Area and are identified as Grid # 0103 (20S40E), #0052 (30S90E), and #0053 (20S90E). Further remediation of these units could not be undertaken due to worker health and safety concerns, the risk of damaging vital facility utilities, and the risk of damaging facility structures. Diagrams of these grid cells (with the location of contaminated material identified, sample results and locations, and utilities) are provided in Attachment 7. Topographic representations

This term strikes me as odd, is it being used correctly?

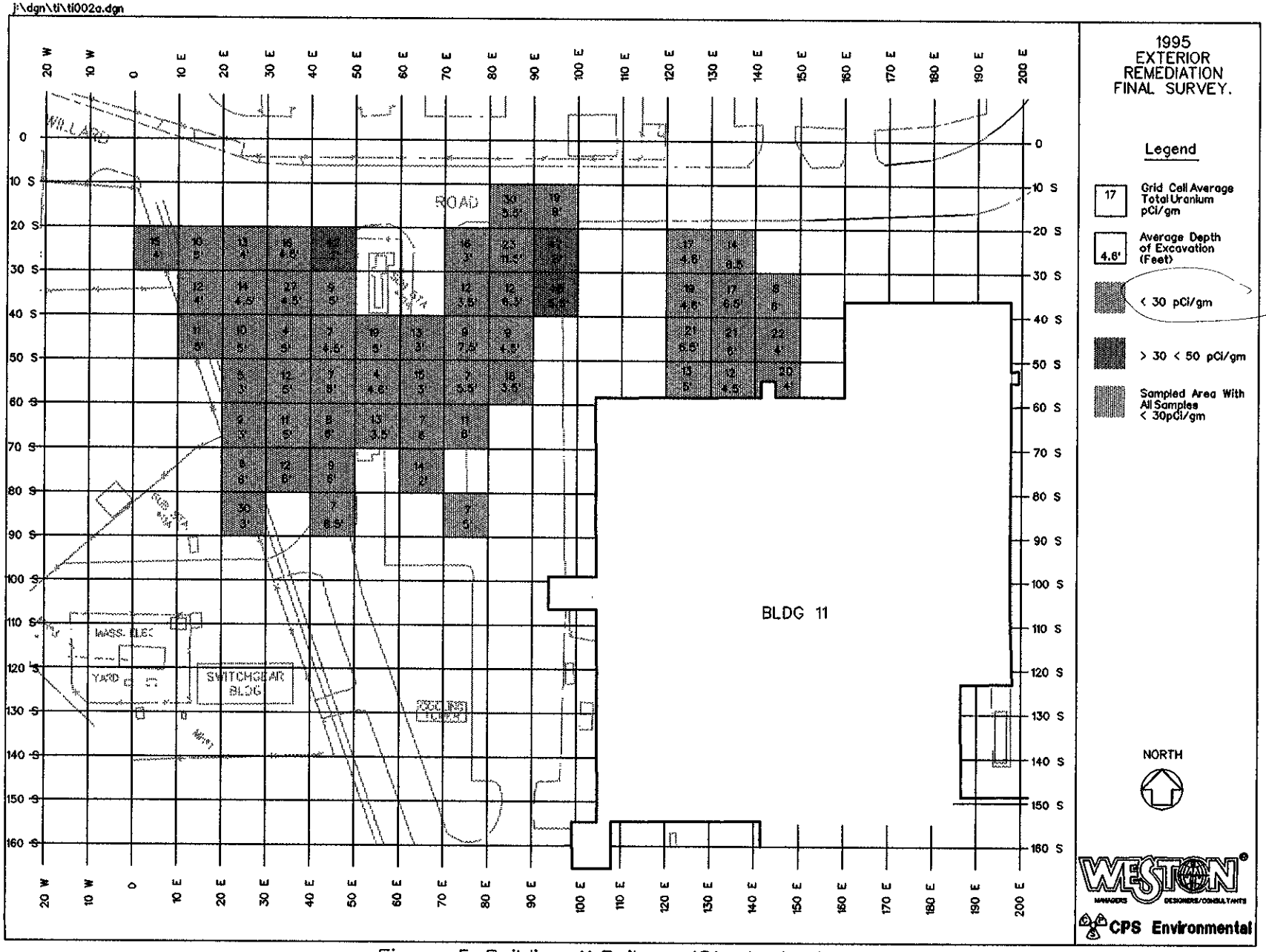


Figure 5. Building 11 Railspur/Stockade Areas.

ME-017136

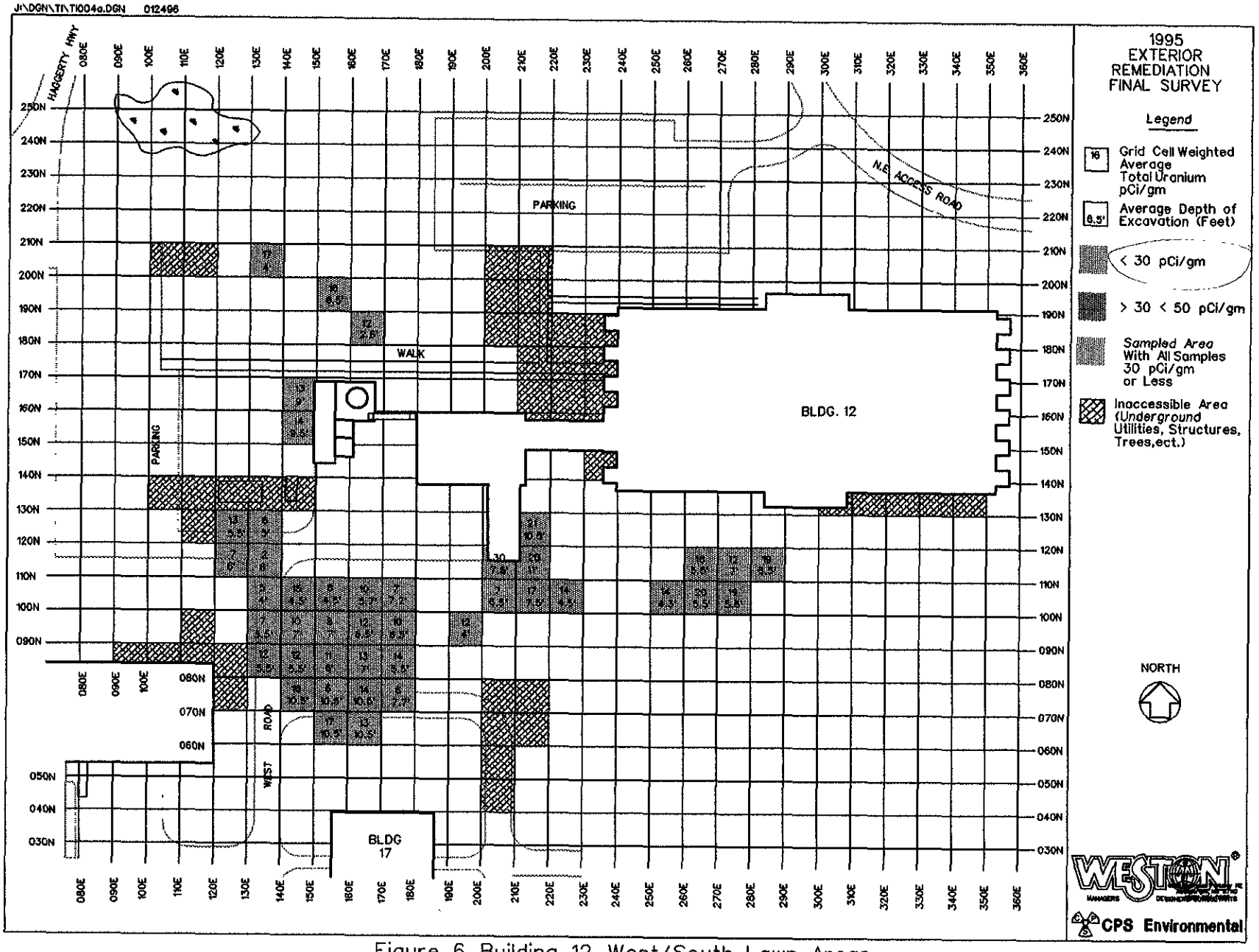


Figure 6. Building 12 West/South Lawn Areas.

of each grid cell "hot spot" locations are contained in Attachment 8. "Hot spots" are isolated locations with contamination concentrations greater than 30 pCi/g total uranium. These representations identify all existing "hot spot" locations within the grid cells that were remediated by WESTON.

6.4 RESIDUAL ACTIVITY INVENTORY

Locations, volumes, source term data, and depth of contamination of major sources of residual activity under utilities and structures can be found in the table and diagrams in Attachment 7. The average gross residual uranium concentration in the grid cell subsurface soils is 14 pCi/g and in the surface soils is 10 pCi/g. The total site gross residual activity level is equal to 1.005 Ci of total uranium. It should be noted that this inventory only represents areas remediated by WESTON and includes local background uranium concentrations.

7.0 CONCLUSION

Remediation activities by WESTON at the TI Attleboro Facility began in June 1995 and were completed in 1996. These activities occurred in phases between the areas surrounding Buildings 11 and 12. All activities were planned in conjunction with the NRC and reported to the NRC throughout the period of performance. Intermediate surveys and further site characterization studies were conducted for each remediation phase. Final surveys were conducted at the completion of each remediation phase to ensure compliance with project commitments and release guidelines. The results of these surveys demonstrate that WESTON's remediation actions were effective in reducing residual uranium activity in the areas around Buildings 11 and 12 to well below the NRC guidelines and limits for unrestricted use.

8.0 REFERENCES

8.1 Texas Instruments Incorporated Radioactive Materials License (Special Nuclear Materials-23)

8.2 Texas Instruments Incorporated. (1992.) *1992 Remediation Plan.*

8.3 Texas Instruments Incorporated. (1994.) *Supplement to the 1992 Remediation Plan.*

8.4 NUREG/CR-5849. *Manual for Conducting Radiological Surveys in Support of License Termination.*

8.5 U.S. Atomic Energy Commission. Regulatory Guide 1.86, *Termination of Operating Licenses for Nuclear Reactors.*

8.6 U.S. Nuclear Regulatory Commission. *Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material.*

8.7 Roy F. Weston, Inc. June 1995. *Texas Instruments Exterior Project Plan.*

ATTACHMENT 1
Texas Instruments Attleboro Facility
Exterior Remediation Project Filing System

Texas Instruments Incorporated

ROY F. WESTON, INC.
~~CONFIDENTIAL CLIENT (10923-003-001)~~
PROJECT FILE KEY
REVISED 30 JANUARY 1996

1.0 CONTRACT DOCUMENTATION
- 1.1 Proposal and Pre-Award
  - 1.1.1 Pre-Award
  - 1.1.2 Proposal
  - 1.1.3 Statement of Work/total cost estimates
- 1.2 Prime Contract Documentation/Terms & Conditions
- 1.3 Contract Modifications
- 1.4 Project Closeout

2.0 CORRESPONDENCE/COMMUNICATIONS
- 2.1 Client
- 2.2 Internal
- 2.3 Subcontractor
  - 2.3.1 PSI
  - 2.3.2 Bartlett Nuclear
  - 2.3.3 Conrail/Pittsburgh-Customer Service
  - 2.3.4 Consulting Engineering Diversified (CED)
  - 2.3.5 D B Kelly
  - 2.3.6 E. Otis Dyer
  - 2.3.7 EnviroCare of Utah
  - 2.3.8 Franklin Environmental Services, Inc.
  - 2.3.9 TMA/Eberline
- 2.4 Legal Correspondence
- 2.5 Regulatory Agencies

3.0 FINANCIAL
- 3.1 Planning
- 3.2 Monitoring & Control
  - 3.2.1 Weekly Project Details
  - 3.2.2 Backup
    - 3.2.2.1 Timesheets
    - 3.2.2.2 Expense Reports
    - 3.2.2.3 Requisitions
  - 3.2.3 Labor Transfers
- 3.3 TI/WESTON Invoicing
- 3.4 Subcontractor Billing/Invoicing
  - 3.4.1 PSI
  - 3.4.2 Bartlett Nuclear
  - 3.4.3 Conrail/Pittsburgh-Customer Service
  - 3.4.4 Consulting Engineering Diversified (CED)
  - 3.4.5 D B Kelly
  - 3.4.6 E. Otis Dyer
  - 3.4.7 EnviroCare of Utah, Inc.
  - 3.4.8 Franklin Environmental Services, Inc.
    - 3.4.8.1 Franklin Environmental Services, Inc. Change Orders
  - 3.4.9 TMA/Eberline

4.0 SUBCONTRACT DOCUMENTATION
- 4.1 Subcontractor Proposals/Bids
  - 4.1.1 PSI
  - 4.1.2 Bartlett Nuclear

- 4.1.3 Berkshire Construction
- 4.1.4 Citiworks Fence
- 4.1.5 Creative Pollution Solutions
- 4.1.6 D B Kelly Security
- 4.1.7 Deangelis Railroad
- 4.1.8 E. Otis Dyer
- 4.1.9 Ferreira Construction
- 4.1.10 Franklin Environmental Services, Inc.
  - 4.1.10.1 Franklin Change Orders
- 4.1.11 Narragansett Improvements
- 4.1.12 Tibbetts Engineering
- 4.1.13 Walsh Construction
- 4.1.14 Winthrop Nurseries

5.0 QUALITY ASSURANCE

- 5.1 Quality Assurance Plans
- 5.2 Quality Assurance Audits
  - 5.2.1 Franklin Environmental - Punch List
- 5.3 Laboratory Quality
- 5.4 Planned Change Notifications
- 5.5 Corrective Action Reports
  - 5.5.1 Water Main Ruptures
  - 5.5.2 Water in IMCs
    - 5.5.2.1 Water Absorption Materials
  - 5.5.3 Shipment - Winter Conditions
  - 5.5.4 Temporary Structures
  - 5.5.5 Fuel Leak/Spill

6.0 PROJECT STATUS, SURVEILLANCE & CONTROL

- 6.1 Monthly/Weekly/Daily Reports
  - 6.1.1 Daily Railcar Tracking Reports
  - 6.1.2 Franklin Environmental Services, Inc. Daily Reports
  - 6.1.3 Biweekly Cost Reports
- 6.2 Meetings
- 6.3 Task Descriptions
- 6.4 Project Status
- 6.5 Project Resources

7.0 HEALTH & SAFETY

- 7.1 Health & Safety Plans (HASPs)
- 7.2 Health & Safety Surveillance
  - 7.2.1 TLD Reports
  - 7.2.2 Bioassay Results
- 7.3 WESTON Field Operating Procedures
  - 7.3.1 Transportation SOP
- 7.4 Employee Credentials Verifications
- 7.5 Subcontractor Credentials Verifications
  - 7.5.1 Bartlett Nuclear
  - 7.5.2 Deangelis Railroad
  - 7.5.3 E. Otis Dyer
  - 7.5.4 Franklin Environmental Services, Inc.
  - 7.5.5 Sprung Structures
- 7.6 Materials Safety Data Sheets
- 7.7 Project Injuries/Near Misses
- 7.8 Incident Reports

8.0 PROJECT LICENSES/PERMITS

- 8.1 Rad License
- 8.2 Rad Work Permit
- 8.3 Hot Work Permits
- 8.4 Confined Space Entry Permits

9.0 PROGRAM PLANS

- 9.1 Project Plan
- 9.2 Work Plan
- 9.3 Sampling and Analysis Plan
- 9.4 Waste Analysis Plan
- 9.5 Standard Operating Procedures

10.0 RESERVED ~~FOR LATER USE~~

11.0 TECHNICAL INFORMATION

- 11.1 Field Data
  - 11.1.1 Calibration of SKC Personal Air Sampler
  - 11.1.2 Certificates of Calibration
  - 11.1.3 Equipment/Trucking Inspection
  - 11.1.4 Equipment Function Check Record
    - 11.1.4.1 43-1
    - 11.1.4.2 43-5
    - 11.1.4.3 43-10
    - 11.1.4.4 44-9
    - 11.1.4.5 44-10
    - 11.1.4.6 44-40
    - 11.1.4.7 M-19
  - 11.1.5 Completed HNU Form
  - 11.1.6 Work Area Access Control Roster
  - 11.1.7 Excavated Grid Soil Chain of Custody
  - 11.1.8 Survey Data
    - 11.1.8.1 Equipment Release Surveys
    - 11.1.8.2 MPA Entrance/Exit Surveys
    - 11.1.8.3 Railcar DOT Surveys
    - 11.1.8.4 Clean Area Surveys
- 11.2 Engineering
  - 11.2.1 Calculations/Evaluations
    - 11.2.1.1 *Screened Rock Calculations*
    - 11.2.1.2 Grid Depth Calculations
    - 11.2.1.3 MPA Loaded Material
  - 11.2.2 Drawings
- 11.3 Graphics
  - 11.3.1 Photographs
  - 11.3.2 Maps and Sketches
  - 11.3.3 Transparencies
- 11.4 Proctor Soil Analysis
- 11.5 Compaction Tests

12.0 DATA & INFORMATION

- 12.1 Field Survey Plans/Sampling
- 12.2 Analytical Data & Reports
  - 12.2.1 Chemical Soil Analysis
  - 12.2.2 *Radiological Soil Analysis*
  - 12.2.3 Dewatering Analysis
  - 12.2.4 Moisture Shipment Analysis

12.2.5 Moisture Density Report
12.3 Logbooks, Field Notes
12.4 *Field Forms*
12.5 Field Equipment Info/Data
12.6 Waste Management
12.6.1 Waste Shipment Summaries
12.7 Excavation Data

18.0 REVIEW DOCUMENTATION FOR DELIVERABLES
18.1 Comments & Responses to Deliverables
18.2 Preliminary/Initial Drafts
18.3 Working Drafts
18.4 Draft Finals

19.0 FINAL DELIVERABLES
19.1 *Camera-Ready Originals*
19.2 Final Deliverable Documents
19.3 Approvals of Finals Deliverables

20.0 REFERENCES MATERIALS & INFORMATION (NON-WESTON)
20.1 Regulatory Info./Reports
20.2 Property Issues
20.3 Media
20.4 Graphics & Maps
20.5 Misc.

ATTACHMENT 2
Texas Instruments Attleboro Facility
Grid Cell Final Survey Database

Texas Instruments, Attleboro:

External Remediation Grid Block Data

During Excavation?

Post excavat...

I need help understa...

GRID # 0001

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		#DIV/0!

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
200N150E-073195-VER-0001-1a	1	77	12	
200N150E-073195-VER-0001-2a	2	81	12	
200N150E-073195-VER-0001-3a	1	100	23	
200N150E-073195-VER-0001-4a	2	59	3	
200N150E-073195-VER-0001-5a	1	116	31	16

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
16	1

COMPOSITE SAMPLE	200N150E-073195-VER-0001-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
82	14	17

What the difference?

GRID # 0002

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		#DIV/0!

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
190N160E-080295-VER-0002-1c	2	65	6	
190N160E-080295-VER-0002-2c	2	75	10	
190N160E-080295-VER-0002-3c	2	63	5	
190N160E-080295-VER-0002-4c	2	128	30	
190N160E-080295-VER-0002-5c	2	71	8	12

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
12	2

COMPOSITE SAMPLE	190N160E-080295-VER-0002-Cc	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
61	4	5

GRID # 0003

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		#DIV/0!

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
210N130E-080195-VER-0003-1a	1	116	31	
210N130E-080195-VER-0003-2a	2	83	13	
210N130E-080195-VER-0003-3a	1	92	19	
210N130E-080195-VER-0003-4a	2	79	11	
210N130E-080195-VER-0003-5a	2	76	10	17

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
17	2

COMPOSITE SAMPLE	210N130E-080195-VER-0003-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
102	20	16

ME-017145

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0004

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		#DIV/0!

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
170N140E-080895-VER-0004-1c	1	81	14	
170N140E-080895-VER-0004-2c	1	68	8	
170N140E-080895-VER-0004-3c	1	83	15	
170N140E-080895-VER-0004-4c	1	96	21	
170N140E-080895-VER-0004-5c	1	62	5	13

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
13	2

COMPOSITE SAMPLE	170N140E-080895-VER-0004-Cc	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
92	16	7

GRID # 0005

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		#DIV/0!

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
160N140E-080895-VER-0005-1a	2	96	17	
160N140E-080895-VER-0005-2a	2	76	10	
160N140E-080895-VER-0005-3a	2	101	19	
160N140E-080895-VER-0005-4a	2	91	16	
160N140E-080895-VER-0005-5a	2	70	8	14

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
14	2

COMPOSITE SAMPLE	160N140E-080895-VER-0005-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
47	<1	5

GRID # 0006

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
120N120E-100995-CHK-0006-1a	2	67	6	
120N120E-100995-CHK-0006-2a	2	74	9	
120N120E-100995-CHK-0006-3a	2	58	3	
120N120E-100995-CHK-0006-4a	1	79	13	
120N120E-100995-CHK-0006-5a	2	88	14	
120N120E-100995-CHK-0006-6a	1	78	12	
120N120E-100995-CHK-0006-7a	1	52	1	
120N120E-100995-CHK-0006-8a	1	48	1	
120N120E-100995-CHK-0006-9a	1	81	14	
120N120E-100995-CHK-0006-10a	1	63	5	
120N120E-100995-CHK-0006-11a	1	56	2	
Not Taken	N/A	N/A		
120N120E-100995-CHK-0006-13a	2	80	11	8

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
120N120E-101095-VER-0006-1a	2	83	13	
120N120E-101095-VER-0006-2a	2	56	2	
120N120E-101095-VER-0006-3a	2	70	8	
120N120E-101095-VER-0006-4a	2	48	1	
120N120E-101095-VER-0006-5a	2	51	1	5

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
7	2

COMPOSITE SAMPLE	120N120E-101095-VER-0006-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
66	6	4

ME-017146

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:
External Remediation Grid Block Data

GRID # 0007

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
120N130E-100995-CHK-0007-1a	1	40	1	
120N130E-100995-CHK-0007-2a	1	55	1	
120N130E-100995-CHK-0007-3a	2	48	1	
120N130E-100995-CHK-0007-4a	1	48	1	
120N130E-100995-CHK-0007-5a	2	34	1	
120N130E-100995-CHK-0007-6a	2	61	4	
120N130E-100995-CHK-0007-7a	1	71	9	
120N130E-100995-CHK-0007-8a	2	53	1	
120N130E-100995-CHK-0007-9a	2	46	1	
120N130E-100995-CHK-0007-10a	1	58	3	
Not Taken	N/A	N/A		
120N130E-100995-CHK-0007-12a	2	52	1	
120N130E-100995-CHK-0007-13a	2	51	1	2

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
120N130E-101095-VER-0007-1a	2	53	1	
120N130E-101095-VER-0007-2a	2	46	1	
120N130E-101095-VER-0007-3a	2	52	1	
120N130E-101095-VER-0007-4a	2	62	5	
120N130E-101095-VER-0007-5a	2	42	1	2

TOTAL AVERAGE CONCENTRATION (pCi/g): 2

Composite System #(1 or 2): 2

COMPOSITE SAMPLE	120N130E-101095-VER-0007-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
55	2	2

GRID # 0008

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
110N130E-101095-CHK-0008-1a	1	55	1	
110N130E-101095-CHK-0008-2a	2	50	1	
110N130E-101095-CHK-0008-3a	1	65	6	
110N130E-101095-CHK-0008-4a	2	58	3	
110N130E-101095-CHK-0008-5a	2	64	5	
110N130E-101095-CHK-0008-6a	1	62	5	
110N130E-101095-CHK-0008-7a	1	59	3	
110N130E-101095-CHK-0008-8a	1	60	4	
110N130E-101095-CHK-0008-9a	2	47	1	
110N130E-101095-CHK-0008-10a	2	98	18	
110N130E-101095-CHK-0008-11a	1	60	4	
110N130E-101095-CHK-0008-12a	1	71	9	
110N130E-101095-CHK-0008-13a	1	63	5	5

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
110N130E-101095-VER-0008-1a	2	76	10	
110N130E-101095-VER-0008-2a	2	77	10	
110N130E-101095-VER-0008-3a	2	63	5	
110N130E-101095-VER-0008-4a	2	63	5	
110N130E-101095-VER-0008-5a	2	47	1	6

TOTAL AVERAGE CONCENTRATION (pCi/g): 5

Composite System #(1 or 2): 2

COMPOSITE SAMPLE	110N130E-101095-VER-0008-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
71	8	2

GRID # 0009

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
110N140E-091995-CHK-0009-W1	2	223	66	
110N140E-091995-CHK-0009-W2	1	72	10	
110N140E-091995-CHK-0009-W3	2	93	16	
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
110N140E-091995-CHK-0009-9a	1	62	5	
110N140E-091995-CHK-0009-10a	1	78	12	
110N140E-091995-CHK-0009-11a	2	65	6	
110N140E-091995-CHK-0009-12a	2	72	8	
110N140E-091995-CHK-0009-13a	1	96	21	18

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
110N140E-092595-VER-0009-1b	2	63	5	
110N140E-092595-VER-0009-2b	2	98	18	
110N140E-092595-VER-0009-3b	2	89	15	
110N140E-092595-VER-0009-4b	2	54	2	
110N140E-092595-VER-0009-5b	2	83	13	11

TOTAL AVERAGE CONCENTRATION (pCi/g): 15

Composite System #(1 or 2): 2

COMPOSITE SAMPLE	110N140E-092595-VER-0009-Cb	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
60	4	2

ME-017147

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0010

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
110N150E-092095-CHK-0010-1a	1	47	1	
110N150E-092095-CHK-0010-2a	2	95	17	
110N150E-092095-CHK-0010-3a	1	57	2	
110N150E-092095-CHK-0010-4a	2	70	8	
110N150E-092095-CHK-0010-5a	1	55	1	
110N150E-092095-CHK-0010-6a	2	65	6	
110N150E-092095-CHK-0010-7a	1	66	7	
110N150E-092095-CHK-0010-8a	2	45	1	
110N150E-092095-CHK-0010-9a	1	83	15	
110N150E-092095-CHK-0010-10a	2	85	13	
110N150E-092095-CHK-0010-11a	1	66	7	
110N150E-092095-CHK-0010-12a	2	146	36	
110N150E-092095-CHK-0010-13a	1	65	6	9

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
110N150E-092595-VER-0010-1b	2	48	1	
110N150E-092595-VER-0010-2b	2	52	1	
110N150E-092595-VER-0010-3b	2	58	3	
110N150E-092595-VER-0010-4b	2	91	16	
110N150E-092595-VER-0010-5b	2	55	2	5

TOTAL AVERAGE CONCENTRATION (pCi/g)
8

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	110N150E-092595-VER-0010-Cb	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
98	18	3

GRID # 0011

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
110N160E-092795-CHK-0011-1a	1	60	4	
110N160E-092795-CHK-0011-2a	2	45	1	
110N160E-092795-CHK-0011-3a	1	50	1	
110N160E-092795-CHK-0011-4a	2	66	6	
110N160E-092795-CHK-0011-5a	1	68	8	
110N160E-092795-CHK-0011-6a	2	65	6	
110N160E-092795-CHK-0011-7a	1	156	50	
110N160E-092795-CHK-0011-8a	2	93	16	
110N160E-092795-CHK-0011-9a	1	89	18	
110N160E-092795-CHK-0011-10a	2	58	3	
110N160E-092795-CHK-0011-11a	1	79	13	
110N160E-092795-CHK-0011-12a	2	65	6	
110N160E-092795-CHK-0011-13a	2	50	1	10

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
110N160E-092895-VER-0011-1a	2	56	2	
110N160E-092895-VER-0011-2a	2	81	12	
110N160E-092895-VER-0011-3a	2	79	11	
110N160E-092895-VER-0011-4a	2	72	8	
110N160E-092895-VER-0011-5a	2	66	6	8

TOTAL AVERAGE CONCENTRATION (pCi/g)
10

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	110N160E-092895-VER-0011-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
95	17	6

GRID # 0012

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
110N170E-092995-CHK-0012-1a	1	55	1	
110N170E-092995-CHK-0012-2a	1	56	2	
110N170E-092995-CHK-0012-3a	1	70	9	
110N170E-092995-CHK-0012-4a	1	81	14	
110N170E-092995-CHK-0012-5a	1	48	1	
110N170E-092995-CHK-0012-6a	2	118	26	
110N170E-092995-CHK-0012-7a	1	79	13	
110N170E-092995-CHK-0012-8a	1	55	1	
110N170E-092995-CHK-0012-9a	2	59	3	
110N170E-092995-CHK-0012-10a	1	66	7	
110N170E-092995-CHK-0012-11a	2	58	3	
110N170E-092995-CHK-0012-12a	1	83	15	
110N170E-092995-CHK-0012-13a	1	76	11	8

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
110N170E-092995-VER-0012-1a	2	40	1	
110N170E-092995-VER-0012-2a	2	53	1	
110N170E-092995-VER-0012-3a	2	53	1	
110N170E-092995-VER-0012-4a	2	52	1	
110N170E-092995-VER-0012-5a	2	90	15	4

TOTAL AVERAGE CONCENTRATION (pCi/g)
7

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	110N170E-092995-VER-0012-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
65	6	4

ME-017148

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0013

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
100N130E-101095-CHK-0013-1a	2	73	9	
100N130E-101095-CHK-0013-2a	2	70	8	
100N130E-101095-CHK-0013-3a	2	111	23	
100N130E-101095-CHK-0013-4a	2	67	6	
100N130E-101095-CHK-0013-5a	2	93	16	
100N130E-101095-CHK-0013-6a	2	65	6	
100N130E-101095-CHK-0013-7a	2	67	6	
100N130E-101095-CHK-0013-8a	2	80	11	
100N130E-101095-CHK-0013-9a	2	44	1	
100N130E-101095-CHK-0013-10a	2	77	10	
100N130E-101095-CHK-0013-11a	2	54	2	
100N130E-101095-CHK-0013-12a	2	51	1	
100N130E-101095-CHK-0013-13a	2	55	2	8

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
100N130E-101195-VER-0013-1a	2	64	5	
100N130E-101195-VER-0013-2a	2	64	5	
100N130E-101195-VER-0013-3a	2	58	3	
100N130E-101195-VER-0013-4a	2	51	1	
100N130E-101195-VER-0013-5a	2	98	18	6

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
7	1

COMPOSITE SAMPLE	100N130E-101195-VER-0013-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
52	<1	2

GRID # 0014

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
100N140E-091995-CHK-0014-1a	1	82	14	
100N140E-091995-CHK-0014-2a	2	74	9	
100N140E-091995-CHK-0014-3a	1	103	24	
100N140E-091995-CHK-0014-4a	2	66	6	
100N140E-091995-CHK-0014-5a	1	51	1	
100N140E-091995-CHK-0014-6a	2	69	7	
100N140E-091995-CHK-0014-7a	2	69	7	
100N140E-091995-CHK-0014-8a	1	55	1	
100N140E-091995-CHK-0014-9a	1	84	15	
100N140E-091995-CHK-0014-10a	2	71	8	
100N140E-091995-CHK-0014-11a	1	62	5	
100N140E-091995-CHK-0014-12a	2	86	14	
100N140E-091995-CHK-0014-13a	1	83	15	10

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
100N140E-092595-VER-0014-1b	2	104	21	
100N140E-092595-VER-0014-2b	2	39	1	
100N140E-092595-VER-0014-3b	2	85	13	
100N140E-092595-VER-0014-4b	2	100	19	
100N140E-092595-VER-0014-5b	2	41	1	11

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
10	2

COMPOSITE SAMPLE	100N140E-092595-VER-0014-Cb	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
82	12	4

GRID # 0015

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
100N150E-092695-CHK-0015-1b	1	57	2	
100N150E-092695-CHK-0015-2b	2	46	1	
100N150E-092695-CHK-0015-3b	1	78	12	
100N150E-092695-CHK-0015-4b	2	90	15	
100N150E-092695-CHK-0015-5b	1	59	3	
100N150E-092695-CHK-0015-6b	2	97	18	
100N150E-092695-CHK-0015-7b	1	52	1	
100N150E-092695-CHK-0015-8b	2	67	6	
100N150E-092695-CHK-0015-9b	1	61	4	
100N150E-092695-CHK-0015-10b	2	60	4	
100N150E-092695-CHK-0015-11b	1	60	4	
100N150E-092695-CHK-0015-12b	2	112	24	
100N150E-092695-CHK-0015-13b	1	53	1	7

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
100N150E-092695-VER-0015-1a	2	97	18	
100N150E-092695-VER-0015-2a	2	76	10	
100N150E-092695-VER-0015-3a	2	69	7	
100N150E-092695-VER-0015-4a	2	89	15	
100N150E-092695-VER-0015-5a	2	61	4	11

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
8	2

COMPOSITE SAMPLE	100N150E-092695-VER-0015-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
118	26	6

ME-017149

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0016

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		#DIV/0!

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
120N280E-081095-VER-0016-1a	2	108	22	
120N280E-081095-VER-0016-2a	2	69	7	
120N280E-081095-VER-0016-3a	2	125	29	
120N280E-081095-VER-0016-4a	2	98	18	
120N280E-081095-VER-0016-5a	2	99	19	19

TOTAL AVERAGE CONCENTRATION (pCi/g): 19

Composite System #(1 or 2): 2

COMPOSITE SAMPLE	120N280E-081095-VER-0016-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
81	12	5

GRID # 0017

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
120N270E-082295-CHK-0017-1b	1	64	6	
120N270E-082295-CHK-0017-2b	2	83	13	
120N270E-082295-CHK-0017-3b	2	56	2	
120N270E-082295-CHK-0017-4b	1	99	23	
120N270E-082295-CHK-0017-5b	1	87	17	
120N270E-082295-CHK-0017-6b	1	74	11	
120N270E-082295-CHK-0017-7b	1	93	20	
120N270E-082295-CHK-0017-8b	2	58	3	
120N270E-082295-CHK-0017-9b	2	28	1	
120N270E-082295-CHK-0017-10b	2	96	17	
120N270E-082295-CHK-0017-11b	1	70	9	
120N270E-082295-CHK-0017-12b	2	61	4	
120N270E-082295-CHK-0017-13b	1	86	16	11

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
120N270E-082295-VER-0017-1a	2	116	25	
120N270E-082295-VER-0017-2a	2	60	4	
120N270E-082295-VER-0017-3a	2	91	16	
120N270E-082295-VER-0017-4a	2	91	16	
120N270E-082295-VER-0017-5a	2	97	18	16

TOTAL AVERAGE CONCENTRATION (pCi/g): 12

Composite System #(1 or 2): 2

COMPOSITE SAMPLE	120N270E-082295-VER-0017-5a	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
99	19	8

GRID # 0018

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
120N260E-082495-CHK-0018-1a	2	62	5	
120N260E-082495-CHK-0018-2a	2	78	11	
120N260E-082495-CHK-0018-3a	2	63	5	
120N260E-082495-CHK-0018-4a	2	49	1	
120N260E-082495-CHK-0018-5a	2	69	7	
120N260E-082495-CHK-0018-6a	2	41	1	
120N260E-082495-CHK-0018-7a	2	75	10	
120N260E-082495-CHK-0018-8a	2	141	35	
120N260E-082495-CHK-0018-9a	2	62	5	
120N260E-082495-CHK-0018-10a	2	72	8	
120N260E-082495-CHK-0018-11a	2	159	41	
120N260E-082495-CHK-0018-12a	2	262	81	
120N260E-082495-CHK-0018-13a	2	198	56	20

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
120N260E-090195-VER-0018-1a	2	104	21	
120N260E-090195-VER-0018-2a	2	80	11	
120N260E-090195-VER-0018-3a	2	112	24	
120N260E-090195-VER-0018-4a	2	46	1	
120N260E-090195-VER-0018-5a	2	72	8	13

TOTAL AVERAGE CONCENTRATION (pCi/g): 16

Composite System #(1 or 2): 2

COMPOSITE SAMPLE	120N260E-090195-VER-0018-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
103	20	3

ME-017150

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0019

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
110N270E-082595-CHK-0019-1a	2	67	6	
110N270E-082595-CHK-0019-2a	2	92	16	
110N270E-082595-CHK-0019-3a	2	132	31	
110N270E-082595-CHK-0019-4a	1	92	19	
110N270E-082595-CHK-0019-5a	2	194	55	
110N270E-082595-CHK-0019-6a	1	101	23	
110N270E-082595-CHK-0019-7a	1	128	36	
110N270E-082595-CHK-0019-8a	2	96	17	
110N270E-082595-CHK-0019-9a	2	109	22	
110N270E-082595-CHK-0019-10a	1	73	10	
110N270E-082595-CHK-0019-11a	1	96	21	
110N270E-082595-CHK-0019-12a	1	81	14	
110N270E-082595-CHK-0019-13a	1	41	1	21

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
110N270E-082895-VER-0019-1a	2	82	12	
110N270E-082895-VER-0019-2a	2	105	21	
110N270E-082895-VER-0019-3a	2	74	9	
110N270E-082895-VER-0019-4a	2	71	8	
Not Taken	N/A	N/A		13

TOTAL AVERAGE CONCENTRATION (pCi/g)
19

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	110N270E-082895-VER-0019-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
90	15	9

GRID # 0020

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
110N260E-082595-CHK-0020-1a	2	84	13	
110N260E-082595-CHK-0020-2a	2	94	17	
110N260E-082595-CHK-0020-3a	2	123	28	
110N260E-082595-CHK-0020-4a	1	75	11	
110N260E-082595-CHK-0020-5b	1	99	23	
110N260E-082595-CHK-0020-6a	2	95	17	
110N260E-082595-CHK-0020-7a	1	112	29	
110N260E-082595-CHK-0020-8a	2	109	22	
110N260E-082595-CHK-0020-9a	2	123	28	
110N260E-082595-CHK-0020-10a	1	76	11	
110N260E-082595-CHK-0020-11a	1	82	14	
110N260E-082595-CHK-0020-12a	1	81	14	
110N260E-082595-CHK-0020-13a	1	64	6	18

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
110N260E-082595-VER-0020-1b	2	129	30	
110N260E-082595-VER-0020-2a	2	89	15	
110N260E-082595-VER-0020-3a	2	123	28	
110N260E-082595-VER-0020-4a	2	118	26	
Not Taken	N/A	N/A		25

TOTAL AVERAGE CONCENTRATION (pCi/g)
20

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	110N260E-082595-CHK-0020-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
112	24	13

GRID # 0021

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
110N250E-082895-CHK-0021-1a	2	147	37	
110N250E-082895-CHK-0021-2a	2	37	1	
110N250E-082895-CHK-0021-3a	1	95	21	
110N250E-082895-CHK-0021-4a	1	72	10	
110N250E-082895-CHK-0021-5a	2	59	3	
110N250E-082895-CHK-0021-6a	1	94	20	
110N250E-082895-CHK-0021-7a	2	66	6	
110N250E-082895-CHK-0021-8a	2	110	23	
110N250E-082895-CHK-0021-9a	1	68	8	
110N250E-082895-CHK-0021-10a	1	73	10	
110N250E-082895-CHK-0021-11a	1	93	20	
110N250E-082895-CHK-0021-12a	2	65	6	
110N250E-082895-CHK-0021-13a	1	97	22	14

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
110N250E-082995-VER-0021-1a	2	78	11	
110N250E-082995-VER-0021-2a	2	98	18	
110N250E-082995-VER-0021-3a	2	79	11	
110N250E-082995-VER-0021-4a	2	47	1	
110N250E-082995-VER-0021-5a	2	92	16	11

TOTAL AVERAGE CONCENTRATION (pCi/g)
14

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	110N250E-082995-VER-0021-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
100	19	4

ME-017151

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0022

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
120N210E-090895-CHK-0022-1a	2	112	24	
120N210E-090895-CHK-0022-2a	1	79	13	
120N210E-090895-CHK-0022-3a	2	64	5	
120N210E-090895-CHK-0022-4a	1	79	13	
120N210E-090895-CHK-0022-5a	2	78	11	
120N210E-090895-CHK-0022-6a	1	72	10	
120N210E-090895-CHK-0022-7a	2	124	28	
120N210E-090895-CHK-0022-8a	1	73	10	
120N210E-090895-CHK-0022-9a	2	158	41	
120N210E-090895-CHK-0022-10a	2	63	5	
120N210E-090895-CHK-0022-11a	2	108	22	
120N210E-090895-CHK-0022-12a	2	148	37	
120N210E-090895-CHK-0022-13a	2	103	20	18

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
120N210E-090895-VER-0022-1a	2	76	10	
120N210E-090895-VER-0022-2a	2	59	3	
120N210E-090895-VER-0022-3a	2	95	17	
120N210E-090895-VER-0022-4a	2	103	20	
120N210E-090895-VER-0022-5a	2	90	15	13

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
17	2

COMPOSITE SAMPLE	120N210E-090895-VER-0022-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
71	8	12

GRID # 0023

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
130N210E-091195-CHK-0023-1a	2	76	10	
130N210E-091195-CHK-0023-2a	2	45	1	
130N210E-091195-CHK-0023-3a	1	72	10	
130N210E-091195-CHK-0023-4a	1	73	10	
130N210E-091195-CHK-0023-5a	1	84	15	
130N210E-091195-CHK-0023-6a	2	95	17	
130N210E-091295-CHK-0023-7b	2	88	14	
130N210E-091195-CHK-0023-8a	2	87	14	
130N210E-091295-CHK-0023-9b	2	75	10	
130N210E-091195-CHK-0023-10a	2	98	18	
130N210E-091295-CHK-0023-11b	1	85	16	
130N210E-091295-CHK-0023-12b	2	87	14	
130N210E-091195-CHK-0023-13a	1	112	29	14

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
130N210E-091295-VER-0023-1a	2	60	4	
130N210E-091295-VER-0023-2a	2	72	8	
130N210E-091295-VER-0023-3a	2	101	19	
130N210E-091295-VER-0023-4a	2	74	9	
130N210E-091295-VER-0023-5a	2	77	10	10

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
13	2

COMPOSITE SAMPLE	130N210E-091295-VER-0023-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
68	7	6

GRID # 0024

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
110N210E-091395-CHK-0024-1a	1	131	38	
110N210E-091395-CHK-0024-2a	1	51	1	
110N210E-091395-CHK-0024-3a	2	53	1	
110N210E-091395-CHK-0024-4a	2	99	19	
110N210E-091395-CHK-0024-5a	1	82	14	
110N210E-091395-CHK-0024-6a	2	158	41	
110N210E-091395-CHK-0024-7a	1	81	14	
110N210E-091395-CHK-0024-8a	2	65	6	
110N210E-091395-CHK-0024-9a	1	115	30	
110N210E-091395-CHK-0024-10a	2	60	4	
110N210E-091395-CHK-0024-11a	2	206	59	
110N210E-091395-CHK-0024-12a	1	83	15	
110N210E-091395-CHK-0024-13a	2	60	4	19

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
110N210E-092195-VER-0024-1b	2	91	16	
110N210E-092195-VER-0024-2b	2	63	5	
110N210E-092195-VER-0024-3b	2	110	23	
110N210E-092195-VER-0024-4b	2	53	1	
110N210E-092195-VER-0024-5b	2	82	12	11

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
17	2

COMPOSITE SAMPLE	110N210E-092195-VER-0024-Cb	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
84	13	16

ME-017152

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:
External Remediation Grid Block Data

GRID # 0025

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
120N200E-091495-CHK-0025-1a	2	93	16	
120N200E-091495-CHK-0025-2a	2	84	13	
120N200E-091595-CHK-0025-3b	1	62	5	
120N200E-091495-CHK-0025-4a	2	72	8	
120N200E-091495-CHK-0025-5a	2	48	1	
120N200E-091495-CHK-0025-6a	2	65	6	
120N200E-091495-CHK-0025-7a	1	42	1	
120N200E-091495-CHK-0025-8a	1	55	1	
120N200E-091495-CHK-0025-9a	2	53	1	
120N200E-091495-CHK-0025-10a	1	60	4	
120N200E-091495-CHK-0025-11a	2	105	21	
120N200E-091495-CHK-0025-12a	2	39	1	
120N200E-091495-CHK-0025-13a	2	54	2	6

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
120N200E-091595-VER-0025-1a	1	87	17	
120N200E-091595-VER-0025-2a	1	155	49	
120N200E-091595-VER-0025-3a	1	106	26	
120N200E-091595-VER-0025-4a	1	41	1	
120N200E-091595-VER-0025-5a	1	54	1	19

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
10	1

COMPOSITE SAMPLE	120N200E-091595-VER-0025-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
103	24	25

GRID # 0026

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
110N200E-091495-CHK-0026-1a	1	39	1	
110N200E-091495-CHK-0026-2a	2	81	12	
110N200E-091495-CHK-0026-3a	1	58	3	
110N200E-091495-CHK-0026-4a	2	61	4	
110N200E-091495-CHK-0026-5a	1	74	11	
110N200E-091495-CHK-0026-6a	2	121	27	
110N200E-091495-CHK-0026-7a	1	68	8	
110N200E-091495-CHK-0026-8a	2	40	1	
110N200E-091495-CHK-0026-9a	1	55	1	
110N200E-091495-CHK-0026-10a	2	66	6	
110N200E-091495-CHK-0026-11a	2	54	2	
110N200E-091495-CHK-0026-12a	2	41	1	
110N200E-091495-CHK-0026-13a	1	52	1	6

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
110N200E-091595-VER-0026-1a	2	77	10	
110N200E-091595-VER-0026-2a	2	63	5	
110N200E-091595-VER-0026-3a	2	90	15	
110N200E-091595-VER-0026-4a	2	52	1	
110N200E-091595-VER-0026-5a	2	74	9	8

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
7	2

COMPOSITE SAMPLE	110N200E-091595-VER-0026-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
56	2	6

GRID # 0027

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
110N220E-091195-CHK-0027-1a	1	128	36	
110N220E-091195-CHK-0027-2a	1	147	46	
110N220E-091195-CHK-0027-3a	2	42	1	
110N220E-091195-CHK-0027-4a	1	66	7	
110N220E-091195-CHK-0027-5a	1	80	13	
110N220E-091195-CHK-0027-6a	2	97	18	
110N220E-091195-CHK-0027-7a	2	76	10	
110N220E-091195-CHK-0027-8a	1	57	2	
110N220E-091195-CHK-0027-9a	2	75	10	
110N220E-091195-CHK-0027-10a	2	118	26	
110N220E-091195-CHK-0027-11a	1	71	9	
110N220E-091195-CHK-0027-12a	2	57	3	
110N220E-091195-CHK-0027-13a	2	117	25	16

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
110N220E-091295-VER-0027-1a	2	60	4	
110N220E-091295-VER-0027-2a	2	88	14	
110N220E-091295-VER-0027-3a	2	67	6	
110N220E-091295-VER-0027-4a	2	106	21	
110N220E-091295-VER-0027-5a	2	58	3	10

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
14	2

COMPOSITE SAMPLE	110N220E-091295-VER-0027-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
104	21	21

ME-017153

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0028

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
100N190E-091595-CHK-0028-1a	1	85	16	
100N190E-091595-CHK-0028-2a	2	92	16	
100N190E-091595-CHK-0028-3a	1	62	5	
100N190E-091595-CHK-0028-4a	2	103	20	
100N190E-091595-CHK-0028-5a	1	80	13	
100N190E-091595-CHK-0028-6a	2	48	1	
100N190E-091595-CHK-0028-7a	1	91	19	
100N190E-091595-CHK-0028-8a	2	56	2	
100N190E-091595-CHK-0028-9a	1	67	7	
100N190E-091595-CHK-0028-10a	2	80	11	
100N190E-091595-CHK-0028-11a	1	78	12	
100N190E-091595-CHK-0028-12a	2	94	17	
100N190E-091595-CHK-0028-13a	1	88	17	12

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
100N190E-091895-VER-0028-1a	2	90	15	
100N190E-091895-VER-0028-2a	2	42	1	
100N190E-091895-VER-0028-3a	2	61	4	
100N190E-091895-VER-0028-4a	2	71	8	
100N190E-091895-VER-0028-5a	2	143	35	13

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
12	2

COMPOSITE SAMPLE	100N190E-091895-VER-0028-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
74	9	6

GRID # 0029

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
90N140E-091995-CHK-0029-1a	1	72	10	
90N140E-091995-CHK-0029-2a	2	74	9	
90N140E-091995-CHK-0029-3a	1	127	36	
90N140E-091995-CHK-0029-4a	2	43	1	
90N140E-091995-CHK-0029-5a	1	102	24	
90N140E-091995-CHK-0029-W1a	1	70	9	
90N140E-091995-CHK-0029-W2a	2	66	6	
90N140E-091995-CHK-0029-W3a	1	93	20	
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		
Not Taken	N/A	N/A		14

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
90N140E-092595-VER-0029-1b	2	74	9	
90N140E-092595-VER-0029-2b	2	69	7	
90N140E-092595-VER-0029-3b	2	61	4	
90N140E-092595-VER-0029-4b	2	85	13	
90N140E-092595-VER-0029-5b	2	75	10	9

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
12	2

COMPOSITE SAMPLE	90N140E-092595-VER-0029-Cb	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
77	10	6

GRID # 0030

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
90N150E-092695-CHK-0030-1a	1	62	5	
90N150E-092695-CHK-0030-2a	2	67	6	
90N150E-092695-CHK-0030-3a	1	61	4	
90N150E-092695-CHK-0030-4a	2	49	1	
90N150E-092695-CHK-0030-5a	1	54	1	
90N150E-092695-CHK-0030-6a	1	51	1	
90N150E-092695-CHK-0030-7a	1	82	14	
90N150E-092695-CHK-0030-8a	2	52	1	
90N150E-092695-CHK-0030-9a	1	68	8	
90N150E-092695-CHK-0030-10a	2	122	27	
90N150E-092695-CHK-0030-11a	1	70	9	
90N150E-092695-CHK-0030-12a	2	130	30	
90N150E-092695-CHK-0030-13a	1	115	30	11

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
90N150E-092795-VER-0030-1a	2	67	6	
90N150E-092795-VER-0030-2a	2	58	3	
90N150E-092795-VER-0030-3a	2	81	12	
90N150E-092795-VER-0030-4a	2	145	36	
90N150E-092795-VER-0030-5a	2	75	10	13

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
11	2

COMPOSITE SAMPLE	90N150E-092795-VER-0030-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
106	21	11

ME-017154

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0031

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
90N160E-101395-CHK-0031-1a	1	79	13	
90N160E-101395-CHK-0031-2a	2	58	3	
90N160E-101395-CHK-0031-3a	1	56	2	
90N160E-101395-CHK-0031-4a	2	55	2	
90N160E-101395-CHK-0031-5a	2	63	5	
90N160E-101395-CHK-0031-6a	1	92	19	
90N160E-101395-CHK-0031-7a	2	46	1	
90N160E-101395-CHK-0031-8a	2	54	2	
90N160E-101395-CHK-0031-9a	1	58	3	
90N160E-101395-CHK-0031-10a	1	60	4	
90N160E-101395-CHK-0031-11a	2	65	6	
90N160E-101395-CHK-0031-12a	2	81	12	
90N160E-101395-CHK-0031-13a	1	73	10	6

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
90N160E-101795-VER-0031-1a	2	89	15	
90N160E-101795-VER-0031-2a	2	57	3	
90N160E-101795-VER-0031-3a	2	162	43	
90N160E-101795-VER-0031-4a	2	306	97	
90N160E-101795-VER-0031-5a	2	49	1	32

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
13	2

COMPOSITE SAMPLE	90N160E-101795-VER-0031-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
141	35	3

GRID # 0032

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
100N160E-092695-CHK-0032-1a	1	70	9	
100N160E-092695-CHK-0032-2a	2	61	4	
100N160E-092695-CHK-0032-3a	1	127	36	
100N160E-092695-CHK-0032-4a	2	57	3	
100N160E-092695-CHK-0032-5a	1	91	19	
100N160E-092695-CHK-0032-6a	2	119	26	
100N160E-092695-CHK-0032-7a	1	92	19	
100N160E-092695-CHK-0032-8a	2	123	28	
100N160E-092695-CHK-0032-9a	1	58	3	
100N160E-092695-CHK-0032-10a	2	51	1	
100N160E-092695-CHK-0032-11a	1	46	1	
100N160E-092695-CHK-0032-12a	2	53	1	
100N160E-092695-CHK-0032-13a	1	87	17	13

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
100N160E-092795-VER-0032-1a	2	81	12	
100N160E-092795-VER-0032-2a	2	76	10	
100N160E-092795-VER-0032-3a	2	67	6	
100N160E-092795-VER-0032-4a	2	79	11	
100N160E-092795-VER-0032-5a	2	95	17	11

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
12	2

COMPOSITE SAMPLE	100N160E-092795-VER-0032-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
120	27	3

GRID # 0033

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
90N170E-102095-CHK-0033-1a	1	58	3	
90N170E-102095-CHK-0033-2a	2	103	20	
90N170E-102095-CHK-0033-3a	1	114	30	
90N170E-102095-CHK-0033-4a	2	105	21	
90N170E-102095-CHK-0033-5a	1	84	15	
90N170E-102095-CHK-0033-6a	2	69	7	
90N170E-102095-CHK-0033-7a	1	58	3	
90N170E-102095-CHK-0033-8a	2	95	17	
90N170E-102095-CHK-0033-9a	1	67	7	
90N170E-102095-CHK-0033-10a	2	119	26	
90N170E-102095-CHK-0033-11a	1	89	18	
90N170E-102095-CHK-0033-12a	2	113	24	
90N170E-102095-CHK-0033-13a	1	71	9	15

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
90N170E-111795-VER-0033-1a	2	64	5	
90N170E-111795-VER-0033-2a	2	117	25	
90N170E-111795-VER-0033-3a	2	50	1	
90N170E-111795-VER-0033-4a	2	68	7	
90N170E-111795-VER-0033-5a	2	75	10	10

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
14	2

COMPOSITE SAMPLE	90N170E-111795-VER-0033-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
67	6	4

ME-017155

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0034

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
100N170E-092995-CHK-0034-1a	1	110	28	
100N170E-092995-CHK-0034-2a	2	41	1	
100N170E-092995-CHK-0034-3a	1	61	4	
100N170E-092995-CHK-0034-4a	2	97	18	
100N170E-092995-CHK-0034-5a	1	91	19	
100N170E-092995-CHK-0034-6a	2	79	11	
100N170E-092995-CHK-0034-7a	1	60	4	
100N170E-092995-CHK-0034-8a	2	66	6	
100N170E-092995-CHK-0034-9a	1	44	1	
100N170E-092995-CHK-0034-10a	2	81	12	
100N170E-092995-CHK-0034-11a	1	43	1	
100N170E-092995-CHK-0034-12a	2	126	29	
100N170E-092995-CHK-0034-13a	1	98	22	12

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
100N170E-092995-VER-0034-1a	2	48	1	
100N170E-092995-VER-0034-2a	2	58	3	
100N170E-092995-VER-0034-3a	2	64	5	
100N170E-092995-VER-0034-4a	2	62	5	
100N170E-092995-VER-0034-5a	2	92	16	6

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
10	2

COMPOSITE SAMPLE	100N170E-092995-VER-0034-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
108	22	4

GRID # 0035

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
90N130E-101195-CHK-0035-1a	1	60	4	
90N130E-101195-CHK-0035-2a	1	74	11	
90N130E-101195-CHK-0035-3a	1	120	33	
90N130E-101195-CHK-0035-4a	1	69	8	
90N130E-101195-CHK-0035-5a	1	86	16	
90N130E-101195-CHK-0035-6a	2	86	14	
90N130E-101195-CHK-0035-7a	2	56	2	
90N130E-101195-CHK-0035-8a	2	76	10	
90N130E-101195-CHK-0035-sW1a	1	92	19	
90N130E-101195-CHK-0035-sW2a	1	75	11	
90N130E-101195-CHK-0035-sW3a	1	60	4	
90N130E-101195-CHK-0035-wW1a	2	110	23	
	N/A	N/A		13

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
90N130E-101295-VER-0035-1a	2	87	14	
90N130E-101295-VER-0035-2a	2	78	11	
90N130E-101295-VER-0035-3a	2	68	7	
90N130E-101295-VER-0035-4a	2	85	13	
90N130E-101295-VER-0035-5a	2	51	1	9

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
12	2

COMPOSITE SAMPLE	90N130E-101295-VER-0035-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
80	11	2

GRID # 0036

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
west wall south west				
80N140E-102395-CHK-0036-0-2	2	70	8	
80N140E-102395-CHK-0036-2-4	2	75	10	
80N140E-102395-CHK-0036-4-6	2	104	21	
80N140E-102395-CHK-0036-6-8	2	70	8	
80N140E-102395-CHK-0036-8-10	2	42	1	
west wall north west				
80N140E-102395-CHK-0036-0-2	1	82	14	
80N140E-102395-CHK-0036-2-4	1	58	3	
80N140E-102395-CHK-0036-4-6	1	86	16	
80N140E-102395-CHK-0036-6-8	1	60	4	
80N140E-102395-CHK-0036-8-10	1	205	73	
				16

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		#DIV/0!

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
16	1

COMPOSITE SAMPLE	110N210E-111795-CHK-0036-Comp	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
68	8	N/A

ME-017156

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0037

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
80N150E-102095-CHK-0037-1a	1	49	1	
80N150E-101995-CHK-0037-2a	2	79	11	
80N150E-101995-CHK-0037-3a	1	53	1	
80N150E-101995-CHK-0037-4a	2	76	10	
80N150E-101995-CHK-0037-5a	1	72	10	
80N150E-102095-CHK-0037-6a	1	56	2	
80N150E-101995-CHK-0037-7a	1	57	2	
80N150E-101995-CHK-0037-8a	2	59	3	
80N150E-101995-CHK-0037-9a	2	52	1	
80N150E-101995-CHK-0037-10a	2	79	11	
80N150E-101995-CHK-0037-11a	1	57	2	
80N150E-101995-CHK-0037-12a	2	62	5	
80N150E-101995-CHK-0037-13a	1	62	5	5

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
80N150E-111795-VER-0037-1a	2	45	1	
80N150E-111795-VER-0037-2a	2	86	14	
80N150E-111795-VER-0037-3a	2	76	10	
80N150E-111795-VER-0037-4a	2	65	6	
80N150E-111795-VER-0037-5a	2	90	15	9

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
6	2

COMPOSITE SAMPLE	80N150E-111795-VER-0037-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
93	16	2

GRID # 0038

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
80N160E-102095-CHK-0038-1a	1	44	1	
80N160E-102095-CHK-0038-2a	2	161	42	
80N160E-102095-CHK-0038-3a	1	70	9	
80N160E-102095-CHK-0038-4a	2	68	7	
80N160E-102095-CHK-0038-5a	1	152	48	
80N160E-102095-CHK-0038-6a	2	84	13	
80N160E-102095-CHK-0038-7a	1	91	19	
80N160E-102095-CHK-0038-8a	2	132	31	
80N160E-102095-CHK-0038-9a	1	46	1	
80N160E-102095-CHK-0038-10a	2	70	8	
80N160E-102095-CHK-0038-11a	1	52	1	
80N160E-102095-CHK-0038-12a	2	98	18	
80N160E-102095-CHK-0038-13a	1	64	6	16

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
80N160E-111795-VER-0038-1a	2	67	6	
80N160E-111795-VER-0038-2a	2	84	13	
80N160E-111795-VER-0038-3a	2	80	11	
80N160E-111795-VER-0038-4a	2	103	20	
80N160E-111795-VER-0038-5a	2	66	6	11

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
14	2

COMPOSITE SAMPLE	80N160E-111795-VER-0038-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
64	6	3

GRID # 0039

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
80S70E-100395-CHK-0039-1b	1	37	1	
80S70E-100395-CHK-0039-2b	2	35	1	
80S70E-100395-CHK-0039-3b	1	69	8	
80S70E-100395-CHK-0039-4b	2	88	14	
80S70E-100395-CHK-0039-5b	1	104	25	
80S70E-100395-CHK-0039-6b	2	34	1	
80S70E-100395-CHK-0039-7b	1	19	1	
80S70E-100395-CHK-0039-8b	2	67	6	
80S70E-100395-CHK-0039-9b	1	71	9	
80S70E-100395-CHK-0039-10b	2	58	3	
80S70E-100395-CHK-0039-11b	1	59	3	
80S70E-100395-CHK-0039-12b	2	58	3	
80S70E-100395-CHK-0039-13b	1	66	7	6

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
80S70E-100495-VER-0039-1a	2	45	1	
80S70E-100495-VER-0039-2a	2	64	5	
80S70E-100495-VER-0039-3a	2	62	5	
80S70E-100495-VER-0039-4a	2	76	10	
80S70E-100495-VER-0039-5a	2	92	16	7

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
7	2

COMPOSITE SAMPLE	80S70E-100495-VER-0039-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
109	22	12

ME-017157

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0040

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
70S70E-092895-CHK-0040-1b	2	65	6	
70S70E-092895-CHK-0040-2b	2	55	2	
70S70E-092795-CHK-0040-3a	1	108	27	
70S70E-092795-CHK-0040-4a	1	100	23	
70S70E-092795-CHK-0040-5a	1	60	4	
70S70E-092895-CHK-0040-6b	2	61	4	
70S70E-092795-CHK-0040-7a	1	84	15	
70S70E-092795-CHK-0040-8a	1	93	20	
70S70E-092795-CHK-0040-9a	2	69	7	
70S70E-092795-CHK-0040-10a	1	97	22	
70S70E-092795-CHK-0040-11a	2	91	16	
70S70E-092895-CHK-0040-12b	2	51	1	
70S70E-092795-CHK-0040-13a	2	88	14	12

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
70S70E-092895-VER-0040-1a	2	42	1	
70S70E-092895-VER-0040-2a	2	61	4	
70S70E-092895-VER-0040-3a	2	22	1	
70S70E-092895-VER-0040-4a	2	95	17	
70S70E-092895-VER-0040-5a	2	58	3	5

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
10	2

COMPOSITE SAMPLE	70S70E-092895-VER-0040-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
59	3	9

GRID # 0041

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
60S70E-101295-CHK-0041-1a	2	41	1	
60S70E-101295-CHK-0041-2a	2	37	1	
60S70E-101995-CHK-0041-3a	1	97	22	
60S70E-101295-CHK-0041-4a	2	38	1	
60S70E-101295-CHK-0041-5a	2	66	6	
60S70E-101195-CHK-0041-6a	1	56	2	
60S70E-101195-CHK-0041-7a	1	86	16	
60S70E-101995-CHK-0041-8a	2	85	13	
60S70E-101195-CHK-0041-9a	1	47	1	
60S70E-101295-CHK-0041-10a	2	44	1	
60S70E-101195-CHK-0041-11a	1	89	18	
60S70E-101195-CHK-0041-12a	1	55	1	
60S70E-101995-CHK-0041-13a	1	87	17	8

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
60S70E-102095-VER-0041-1a	1	134	39	
60S70E-102095-VER-0041-2a	1	92	19	
60S70E-102095-VER-0041-3a	1	77	12	
60S70E-102095-VER-0041-4a	1	84	15	
60S70E-102095-VER-0041-5a	1	67	7	18

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
11	1

COMPOSITE SAMPLE	60S70E-102095-VER-0041-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
70	9	18

GRID # 0042

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
70S60E-092595-CHK-0042-1a	1	127	36	
70S60E-092595-CHK-0042-2a	1	103	24	
70S60E-092595-CHK-0042-3a	2	84	13	
70S60E-092595-CHK-0042-4a	2	110	23	
70S60E-092595-CHK-0042-5a	2	129	30	
70S60E-092595-CHK-0042-6a	1	99	23	
70S60E-092595-CHK-0042-7a	1	82	14	
70S60E-092595-CHK-0042-8a	1	61	4	
70S60E-092595-CHK-0042-9a	2	66	6	
70S60E-092595-CHK-0042-10a	2	75	10	
70S60E-092595-CHK-0042-11a	1	59	3	
70S60E-092595-CHK-0042-12a	2	60	4	
70S60E-092595-CHK-0042-13a	1	73	10	15

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
70S60E-092595-VER-0042-1a	1	74	11	
70S60E-092595-VER-0042-2a	1	65	6	
70S60E-092595-VER-0042-3a	1	66	7	
70S60E-092595-VER-0042-4a	1	70	9	
70S60E-092595-VER-0042-5a	1	73	10	9

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
14	1

COMPOSITE SAMPLE	70S60E-092595-VER-0042-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
72	10	10

ME-017158

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0043

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
60S60E-100395-CHK-0043-1a	1	136	40	
60S60E-100395-CHK-0043-2a	2	83	13	
60S60E-100395-CHK-0043-3a	1	60	4	
60S60E-100395-CHK-0043-4a	2	112	24	
60S60E-100395-CHK-0043-5a	1	64	6	
60S60E-100395-CHK-0043-6a	2	67	6	
60S60E-100395-CHK-0043-7a	1	41	1	
60S60E-100395-CHK-0043-8a	2	68	7	
60S60E-100395-CHK-0043-9a	1	52	1	
60S60E-100395-CHK-0043-10a	2	40	1	
60S60E-100395-CHK-0043-11a	1	58	3	
60S60E-100395-CHK-0043-12a	2	55	2	
60S60E-100395-CHK-0043-13a	1	55	1	8

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
60S60E-100395-VER-0043-1a	2	61	4	
60S60E-100395-VER-0043-2a	2	49	1	
60S60E-100395-VER-0043-3a	2	51	1	
60S60E-100395-VER-0043-4a	2	40	1	
60S60E-100395-VER-0043-5a	2	61	4	2

TOTAL AVERAGE CONCENTRATION (pCi/g): 7

Composite System #(1 or 2): 2

COMPOSITE SAMPLE	60S60E-100395-VER-0043-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
56	2	2

GRID # 0044

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
50S60E-100995-CHK-0044-1a	1	97	22	
50S60E-100995-CHK-0044-2a	2	120	27	
50S60E-100995-CHK-0044-3a	2	132	31	
50S60E-100995-CHK-0044-4a	1	86	16	
50S60E-100995-CHK-0044-5a	1	103	24	
50S60E-100995-CHK-0044-6a	1	102	24	
50S60E-100995-CHK-0044-7a	2	71	8	
50S60E-100995-CHK-0044-8a	1	64	6	
50S60E-100995-CHK-0044-9a	2	74	9	
50S60E-100995-CHK-0044-10a	2	74	9	
50S60E-100995-CHK-0044-11a	1	58	3	
50S60E-100995-CHK-0044-12a	2	66	6	
50S60E-100995-CHK-0044-13a	2	64	6	16

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
50S60E-101095-VER-0044-1a	1	83	15	
50S60E-101095-VER-0044-2a	1	74	11	
50S60E-101095-VER-0044-3a	1	100	23	
50S60E-101095-VER-0044-4a	1	63	5	
50S60E-101095-VER-0044-5a	1	88	17	14

TOTAL AVERAGE CONCENTRATION (pCi/g): 15

Composite System #(1 or 2): 1

COMPOSITE SAMPLE	120N120E-101095-VER-0044-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
71	9	6

GRID # 0045

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
50S70E-101195-CHK-0045-1a	1	59	3	
50S70E-101195-CHK-0045-2a	2	32	1	
50S70E-102095-CHK-0045-3a	1	80	13	
50S70E-101195-CHK-0045-4a	1	46	1	
50S70E-102095-CHK-0045-5a	1	85	16	
50S70E-101195-CHK-0045-6a	1	47	1	
50S70E-101195-CHK-0045-7a	2	83	13	
50S70E-102095-CHK-0045-8a	2	71	8	
50S70E-101195-CHK-0045-9a	2	55	2	
50S70E-101195-CHK-0045-10a	2	46	1	
50S70E-101195-CHK-0045-11a	1	43	1	
50S70E-101195-CHK-0045-12a	2	49	1	
50S70E-102095-CHK-0045-13a	1	102	24	7

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
50S70E-102095-CHK-0045-1a	2	103	20	
50S70E-102095-CHK-0045-2a	2	112	24	
50S70E-102095-CHK-0045-3a	2	34	1	
50S70E-102095-CHK-0045-4a	2	51	1	
50S70E-102095-CHK-0045-5a	2	46	1	9

TOTAL AVERAGE CONCENTRATION (pCi/g): 7

Composite System #(1 or 2): 2

COMPOSITE SAMPLE	50S70E-102095-CHK-0045-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
54	2	4

ME-017159

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0046

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
40S70E-101895-CHK-0046-1b	1	101	23	
40S70E-101795-CHK-0046-2a	2	98	18	
40S70E-101795-CHK-0046-3a	1	51	1	
40S70E-101895-CHK-0046-4b	2	48	1	
40S70E-101895-CHK-0046-5b	1	52	1	
40S70E-101795-CHK-0046-6a	2	84	13	
40S70E-101995-CHK-0046-7c	1	58	3	
40S70E-101795-CHK-0046-8a	2	67	6	
40S70E-101795-CHK-0046-9a	1	65	6	
40S70E-101895-CHK-0046-10b	2	53	1	
40S70E-101795-CHK-0046-11a	1	61	4	
40S70E-101795-CHK-0046-12a	2	93	16	
40S70E-101795-CHK-0046-13a	1	60	4	7

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
40S70E-101995-VER-0046-1a	2	129	30	
40S70E-101995-VER-0046-2a	2	43	1	
40S70E-101995-VER-0046-3a	2	49	1	
40S70E-101995-VER-0046-4a	2	74	9	
40S70E-101995-VER-0046-5a	2	121	27	14

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
9	2

COMPOSITE SAMPLE	40S70E-101995-VER-0046-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
84	13	32

GRID # 0047

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
Not Taken	N/A	N/A		
40S60E-101195-CHK-0047-2a	1	63	5	
40S60E-101195-CHK-0047-3a	1	73	10	
40S60E-101195-CHK-0047-4a	1	56	2	
40S60E-101195-CHK-0047-5a	1	49	1	
40S60E-101195-CHK-0047-6a	1	70	9	
40S60E-101195-CHK-0047-7a	1	60	4	
40S60E-101195-CHK-0047-8a	1	81	14	
40S60E-101195-CHK-0047-9a	1	71	9	
40S60E-101195-CHK-0047-10a	1	59	3	
40S60E-101195-CHK-0047-11a	1	92	19	
40S60E-101195-CHK-0047-12a	1	79	13	
40S60E-101195-CHK-0047-13a	1	45	1	8

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
40S60E-101895-VER-0047-1a	2	90	15	
40S60E-101895-VER-0047-2a	2	97	18	
40S60E-101895-VER-0047-3a	2	105	21	
40S60E-101895-VER-0047-4a	2	113	24	
40S60E-101895-VER-0047-5a	2	175	48	25

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
13	2

COMPOSITE SAMPLE	40S60E-101895-VER-0047-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
84	13	11

GRID # 0048

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
50S80E-103195-CHK-0048-1a	1	48	1	
50S80E-103195-CHK-0048-2a	1	96	21	
50S80E-103195-CHK-0048-3a	1	102	24	
50S80E-103195-CHK-0048-4a	2	134	32	
50S80E-103195-CHK-0048-5a	1	133	39	
50S80E-103195-CHK-0048-6a	2	101	19	
50S80E-103195-CHK-0048-sW-0-1 5	1	130	37	
50S80E-103195-CHK-0048-sW-1 5-3	2	94	17	
50S80E-103195-CHK-0048-wW-0-1 5	2	121	27	
50S80E-103195-CHK-0048-wW-1 5-3	1	43	1	
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		22

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
50S80E-103195-VER-0048-1a	2	78	11	
50S80E-103195-VER-0048-2a	2	82	12	
50S80E-103195-VER-0048-3a	2	115	25	
50S80E-103195-VER-0048-4a	2	32	1	
50S80E-103195-VER-0048-5a	2	61	4	11

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
18	2

COMPOSITE SAMPLE	50S80E-103195-VER-0048-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
58	3	6

ME-017160

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0049

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
40S80E-103095-CHK-0049-1a	2	70	8	
40S80E-103095-CHK-0049-2a	1	63	5	
40S80E-103095-CHK-0049-3a	1	92	19	
40S80E-103095-CHK-0049-4a	2	49	1	
40S80E-103095-CHK-0049-5a	2	42	1	
40S80E-103095-CHK-0049-6a	2	59	3	
40S80E-103095-CHK-0049-7a	1	105	25	
40S80E-103095-CHK-0049-8a	2	60	4	
40S80E-103095-CHK-0049-9a	1	46	1	
40S80E-103095-CHK-0049-10a	2	68	7	
40S80E-103095-CHK-0049-11a	2	82	12	
40S80E-103195-CHK-0049-12a	1	92	19	
40S80E-103195-CHK-0049-13a	1	85	16	9

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
40S80E-103195-VER-0049-1a	2	79	11	
40S80E-103195-VER-0049-2a	2	45	1	
40S80E-103195-VER-0049-3a	2	75	10	
40S80E-103195-VER-0049-4a	2	71	8	
40S80E-103195-VER-0049-5a	2	64	5	7

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
9	2

COMPOSITE SAMPLE	40S80E-103195-VER-0049-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
80	11	2

GRID # 0050

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
30S70E-101995-CHK-0050-1a	1	74	11	
30S70E-101995-CHK-0050-2a	2	80	11	
30S70E-101995-CHK-0050-3a	1	89	16	
30S70E-101995-CHK-0050-4a	2	77	10	
30S70E-101995-CHK-0050-5a	1	129	37	
30S70E-101995-CHK-0050-6a	2	76	10	
30S70E-101995-CHK-0050-7a	1	75	11	
30S70E-101995-CHK-0050-8a	2	87	14	
30S70E-101995-CHK-0050-9a	1	95	21	
30S70E-101995-CHK-0050-10a	2	54	2	
30S70E-101995-CHK-0050-11a	1	51	1	
30S70E-101995-CHK-0050-12a	2	60	4	
30S70E-101995-CHK-0050-13a	1	75	11	12

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
30S70E-103095-VER-0050-1a	2	50	1	
30S70E-103095-VER-0050-2a	2	98	18	
30S70E-103095-VER-0050-3a	2	117	25	
30S70E-103095-VER-0050-4a	2	87	14	
30S70E-103095-VER-0050-5a	2	58	3	12

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
12	2

COMPOSITE SAMPLE	30S70E-103095-VER-0050-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
90	15	12

GRID # 0051

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
30S80E-112095-CHK-0051-1a	2	89	15	
not taken	N/A	N/A		
not taken	N/A	N/A		
30S80E-112095-CHK-0051-4a	1	77	12	
30S80E-112095-CHK-0051-5a	1	49	1	
30S80E-112095-CHK-0051-6a	2	61	4	
30S80E-112095-CHK-0051-7a	2	79	11	
30S80E-112095-CHK-0051-8a	1	83	15	
30S80E-112095-CHK-0051-9a	1	65	6	
30S80E-112095-CHK-0051-10a	2	79	11	
30S80E-112095-CHK-0051-11a	1	85	16	
30S80E-112095-CHK-0051-12a	2	53	1	
30S80E-112095-CHK-0051-13a	1	96	21	10

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
30S80E-112095-VER-0051-1a	2	75	10	
30S80E-112095-VER-0051-2a	2	63	5	
30S80E-112095-VER-0051-3a	2	61	4	
30S80E-112095-VER-0051-4a	2	58	3	
30S80E-112095-VER-0051-5a	2	50	1	5

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
9	2

COMPOSITE SAMPLE	30S80E-112095-VER-0051-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
66	6	13

ME-017161

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0052

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
30S90E-120195-CHK-0052-1b	1	233	87	
30S90E-120195-CHK-0052-2b	1	233	87	
30S90E-120195-CHK-0052-3b	2	388	128	
30S90E-120195-CHK-0052-4a	1	69	8	
30S90E-120195-CHK-0052-5a	1	80	13	
30S90E-112195-CHK-0052-6a	2	96	17	
30S90E-112195-CHK-0052-7a	2	70	8	
not taken	N/A	N/A		
30S90E-112195-CHK-0052-9a	1	91	19	
30S90E-112195-CHK-0052-10a	1	92	19	
30S90E-112195-CHK-0052-11a	1	62	5	
30S90E-112195-CHK-0052-12a	1	81	14	
not taken	N/A	N/A		37

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
30S90E-120195-VER-0052-1a	2	233	70	
30S90E-120195-VER-0052-2a	2	302	96	
30S90E-120195-VER-0052-3a	2	45	1	
30S90E-120195-VER-0052-4a	2	64	5	
30S90E-120195-VER-0052-5a	2	60	4	35

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
36	2

COMPOSITE SAMPLE	30S90E-120195-VER-0052-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
90	15	45

GRID # 0053

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
20S90E-112295-CHK-0053-1a	1	113	29	
20S90E-112295-CHK-0053-2a	2	149	38	
20S90E-112295-CHK-0053-3a	1	62	5	
20S90E-112295-CHK-0053-4a	2	136	33	
20S90E-112295-CHK-0053-5a	1	118	32	
20S90E-112295-CHK-0053-6a	2	179	49	
20S90E-112295-CHK-0053-7a	1	149	47	
20S90E-120195-CHK-0053-8a	2	257	79	
20S90E-120195-CHK-0053-9a	2	100	19	
20S90E-120195-CHK-0053-10a	2	144	36	
20S90E-120195-CHK-0053-11a	1	112	29	
20S90E-120195-CHK-0053-12a	2	316	101	
20S90E-120195-CHK-0053-13a	2	151	38	41

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
20S90E-120195-VER-0053-1a	2	126	29	
20S90E-120195-VER-0053-2a	2	77	10	
20S90E-120195-VER-0053-3a	2	164	43	
20S90E-120195-VER-0053-4a	2	301	95	
20S90E-120195-VER-0053-5a	2	118	26	41

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
41	2

COMPOSITE SAMPLE	20S90E-120195-VER-0053-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
128	30	33

GRID # 0054

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
20S80E-112295-CHK-0054-1a	1	86	16	
20S80E-112295-CHK-0054-2a	1	49	1	
20S80E-120195-CHK-0054-3b	1	388	161	
20S80E-120195-CHK-0054-4a	1	54	1	
20S80E-112295-CHK-0054-5a	1	53	1	
20S60E-120195-CHK-0054-6a	2	35	1	
20S80E-120195-CHK-0054-7a	1	69	8	
20S80E-112295-CHK-0054-8a	1	47	1	
20S80E-120195-CHK-0054-9a	2	45	1	
20S80E-120195-CHK-0054-10a	2	102	20	
20S80E-120195-CHK-0054-11a	1	72	10	
20S80E-112295-CHK-0054-12a	1	99	23	
20S80E-120195-CHK-0054-13a	1	254	97	26

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
20S80E-120195-VER-0054-1a	2	114	24	
20S80E-120195-VER-0054-2a	2	54	2	
20S80E-120195-VER-0054-3a	2	75	10	
20S80E-120195-VER-0054-4a	2	106	21	
20S80E-120195-VER-0054-5a	2	94	17	15

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
23	2

COMPOSITE SAMPLE	20S80E-120195-VER-0054-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
110	23	28

ME-017162

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0055

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
20S70E-102695-CHK-0055-1a	1	76	11	
20S70E-102695-CHK-0055-2a	2	96	17	
20S70E-102695-CHK-0055-3a	2	159	41	
20S70E-102695-CHK-0055-4a	1	124	35	
20S70E-102695-CHK-0055-5a	2	130	30	
20S70E-102695-CHK-0055-6a	2	60	4	
20S70E-102695-CHK-0055-7a	1	81	14	
20S70E-102695-CHK-0055-8a	2	68	7	
20S70E-102695-CHK-0055-9a	1	61	4	
20S70E-102695-CHK-0055-10a	2	63	5	
20S70E-102695-CHK-0055-11a	2	125	29	
20S70E-102695-CHK-0055-12a	1	72	10	
20S70E-102695-CHK-0055-13a	1	78	12	17

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
20S70E-102795-VER-0055-1a	2	83	13	
20S70E-102795-VER-0055-2a	2	65	6	
20S70E-102795-VER-0055-3a	2	144	36	
20S70E-102795-VER-0055-4a	2	82	12	
20S70E-102795-VER-0055-5a	2	67	6	15

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
16	2

COMPOSITE SAMPLE	20S70E-102795-VER-0055-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
119	26	14

GRID # 0056

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
40S50E-110695-CHK-0056-1a	2	149	38	
40S50E-110695-CHK-0056-2a	1	84	15	
40S50E-110695-CHK-0056-3a	2	66	6	
40S50E-110695-CHK-0056-4a	2	175	48	
40S50E-110695-CHK-0056-5a	1	98	22	
40S50E-110695-CHK-0056-6a	1	67	7	
40S50E-110695-CHK-0056-7b	2	78	11	
40S50E-110695-CHK-0056-8b	1	59	3	
40S50E-110695-CHK-0056-9b	2	100	19	
40S50E-110695-CHK-0056-10b	2	92	16	
40S50E-110695-CHK-0056-11b	2	85	13	
40S50E-110695-CHK-0056-12b	2	159	41	
40S50E-110695-CHK-0056-13b	1	70	9	19

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
40S50E-110795-VER-0056-1a	2	83	13	
40S50E-110795-VER-0056-2a	2	68	7	
40S50E-110795-VER-0056-3a	2	90	15	
40S50E-110795-VER-0056-4a	2	91	16	
40S50E-110795-VER-0056-5a	2	149	38	18

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
19	2

COMPOSITE SAMPLE	40S50E-110795-VER-0056-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
89	15	11

GRID # 0057

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
50S50E-101095-CHK-0057-1b	1	76	11	
50S50E-101095-CHK-0057-2b	1	74	11	
50S50E-101095-CHK-0057-3b	1	43	1	
50S50E-101095-CHK-0057-4b	1	32	1	
50S50E-101095-CHK-0057-5b	1	45	1	
50S50E-101095-CHK-0057-6b	1	38	1	
50S50E-101095-CHK-0057-7b	1	25	1	
50S50E-101095-CHK-0057-8b	1	49	1	
50S50E-100995-CHK-0057-9a	2	41	1	
50S50E-100995-CHK-0057-10a	1	60	4	
50S50E-100995-CHK-0057-11a	1	50	1	
50S50E-100995-CHK-0057-12a	1	47	1	
50S50E-100995-CHK-0057-13a	1	34	1	3

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
50S50E-101195-VER-0057-1a	2	55	2	
50S50E-101195-VER-0057-2a	2	131	31	
50S50E-101195-VER-0057-3a	2	73	9	
50S50E-101195-VER-0057-4a	2	39	1	
50S50E-101195-VER-0057-5a	2	43	1	9

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
4	2

COMPOSITE SAMPLE	50S50E-101195-VER-0057-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
57	3	4

ME-017163

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0058

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
not taken	N/A	N/A		
60S50E-100495-CHK-0058-2a	2	87	14	
60S50E-100495-CHK-0058-3a	1	103	24	
not taken	N/A	N/A		
60S50E-100495-CHK-0058-5a	1	91	19	
not taken	N/A	N/A		
60S50E-100495-CHK-0058-7a	1	76	11	
60S50E-100495-CHK-0058-8a	2	25	1	
not taken	N/A	N/A		
60S50E-100495-CHK-0058-10a	2	76	10	
not taken	N/A	N/A		
60S50E-100495-CHK-0058-12a	2	73	9	
not taken	N/A	N/A		13

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
not taken	N/A	N/A		
60S50E-100495-VER-0058-2a	2	106	21	
not taken	N/A	N/A		
60S50E-100495-VER-0058-4a	2	69	7	
60S50E-100495-VER-0058-5a	2	92	16	15

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
13	2

COMPOSITE SAMPLE	60S50E-100495-VER-0058-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
116	26	5

GRID # 0059

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
80S40E-112895-CHK-0059-1a	1	86	16	
80S40E-112895-CHK-0059-2a	2	83	13	
80S40E-112895-CHK-0059-3a	1	66	7	
80S40E-112895-CHK-0059-4a	1	107	26	
80S40E-112895-CHK-0059-5a	2	68	7	
80S40E-112895-CHK-0059-6a	2	88	14	
80S40E-112895-CHK-0059-7a	2	39	1	
80S40E-112895-CHK-0059-8a	1	50	1	
80S40E-112895-CHK-0059-9a	1	86	16	
80S40E-112895-CHK-0059-10a	1	71	9	
80S40E-112895-CHK-0059-11a	2	56	2	
80S40E-112895-CHK-0059-12a	2	45	1	
80S40E-112895-CHK-0059-13a	1	48	1	9

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
80S40E-112995-VER-0059-1a	1	52	1	
80S40E-112995-VER-0059-2a	1	60	4	
80S40E-112995-VER-0059-3a	1	71	9	
80S40E-112995-VER-0059-4a	1	52	1	
80S40E-112995-VER-0059-5a	1	49	1	3

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
7	1

COMPOSITE SAMPLE	80S40E-112995-VER-0059-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
54	1	8

GRID # 0060

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
70S40E-112995-CHK-0060-1b	1	78	12	
70S40E-112795-CHK-0060-2a	1	69	8	
70S40E-112995-CHK-0060-3b	1	84	15	
70S40E-112995-CHK-0060-4b	1	53	1	
70S40E-112995-CHK-0060-5b	1	53	1	
70S40E-112995-CHK-0060-6b	1	67	7	
70S40E-112995-CHK-0060-7b	1	38	1	
70S40E-112995-CHK-0060-8b	1	94	20	
70S40E-112995-CHK-0060-9b	1	51	1	
70S40E-112995-CHK-0060-10b	2	60	4	
70S40E-112795-CHK-0060-11a	1	169	56	
70S40E-112995-CHK-0060-12b	2	49	1	
70S40E-112995-CHK-0060-13b	2	53	1	10

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
70S40E-112995-VER-0060-1a	2	56	2	
70S40E-112995-VER-0060-2a	2	66	6	
70S40E-112995-VER-0060-3a	2	104	21	
70S40E-112995-VER-0060-4a	2	38	1	
70S40E-112995-VER-0060-5a	2	73	9	8

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
9	2

COMPOSITE SAMPLE	70S40E-112995-VER-0060-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
54	2	2

ME-017164

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0061

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
60S40E-112295-CHK-0061-1a	1	59	3	
60S40E-112295-CHK-0061-2a	2	69	7	
60S40E-112295-CHK-0061-3a	1	87	17	
60S40E-112295-CHK-0061-4a	2	75	10	
60S40E-112295-CHK-0061-5a	1	58	3	
60S40E-112295-CHK-0061-6a	2	36	1	
60S40E-112295-CHK-0061-7a	1	25	1	
60S40E-112295-CHK-0061-8a	2	46	1	
60S40E-112295-CHK-0061-9a	1	38	1	
60S40E-112295-CHK-0061-10a	2	65	6	
60S40E-112295-CHK-0061-11a	1	43	1	
60S40E-112295-CHK-0061-12a	2	68	7	
60S40E-112295-CHK-0061-13a	1	52	1	5

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
60S40E-112895-VER-0061-1a	1	47	1	
60S40E-112895-VER-0061-2a	1	73	10	
60S40E-112895-VER-0061-3a	1	136	40	
60S40E-112895-VER-0061-4a	1	73	10	
60S40E-112895-VER-0061-5a	1	102	24	17

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
8	1

COMPOSITE SAMPLE	60S40E-112895-VER-0061-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
97	22	15

GRID # 0062

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
50S40E-111495-CHK-0062-1a	2	86	14	
50S40E-111495-CHK-0062-2a	2	105	21	
50S40E-111495-CHK-0062-3a	1	67	7	
50S40E-111495-CHK-0062-4a	2	65	6	
50S40E-111495-CHK-0062-5a	1	43	1	
50S40E-111495-CHK-0062-6a	2	34	1	
50S40E-111495-CHK-0062-7a	1	51	1	
50S40E-111495-CHK-0062-8a	1	35	1	
50S40E-112095-CHK-0062-9a	1	48	1	
50S40E-112095-CHK-0062-10a	1	55	1	
50S40E-112095-CHK-0062-11a	2	81	12	
50S40E-112095-CHK-0062-12a	1	68	8	
50S40E-112095-CHK-0062-13a	2	72	8	6

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
50S40E-112295-VER-0062-1a	2	48	1	
50S40E-112295-VER-0062-2a	2	41	1	
50S40E-112295-VER-0062-3a	2	115	25	
50S40E-112295-VER-0062-4a	2	86	14	
50S40E-112295-VER-0062-5a	2	56	2	9

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
7	2

COMPOSITE SAMPLE	50S40E-112295-VER-0062-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
77	10	7

GRID # 0063

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
40S40E-111395-CHK-0063-1a	1	54	1	
40S40E-111395-CHK-0063-2a	2	48	1	
40S40E-111395-CHK-0063-3a	2	65	6	
40S40E-111395-CHK-0063-4a	1	106	26	
40S40E-111395-CHK-0063-5a	2	62	5	
40S40E-111395-CHK-0063-6a	1	52	1	
40S40E-111395-CHK-0063-7a	2	89	15	
40S40E-111395-CHK-0063-8a	1	69	8	
40S40E-111395-CHK-0063-9a	1	59	3	
40S40E-111395-CHK-0063-10a	1	63	5	
40S40E-111395-CHK-0063-11a	1	69	8	
40S40E-111395-CHK-0063-12a	2	63	5	
40S40E-111395-CHK-0063-13a	1	65	6	7

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
40S40E-111395-VER-0063-1a	2	77	10	
40S40E-111395-VER-0063-2a	2	47	1	
40S40E-111395-VER-0063-3a	2	102	20	
40S40E-111395-VER-0063-4a	2	54	2	
40S40E-111395-VER-0063-5a	2	45	1	7

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
7	2

COMPOSITE SAMPLE	40S40E-111395-VER-0063-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
53	1	11

ME-017165

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0064

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
30S40E-111395-CHK-0064-1a	2	56	2	
30S40E-111395-CHK-0064-2a	2	81	12	
30S40E-111395-CHK-0064-3a	2	117	25	
30S40E-111395-CHK-0064-4a	2	74	9	
30S40E-111395-CHK-0064-5a	1	80	13	
30S40E-111395-CHK-0064-6a	2	106	21	
30S40E-111395-CHK-0064-7a	2	61	4	
30S40E-111395-CHK-0064-8a	2	59	3	
30S40E-111395-CHK-0064-9a	2	78	11	
30S40E-111395-CHK-0064-10b	2	80	11	
30S40E-111395-CHK-0064-11a	1	98	22	
30S40E-111395-CHK-0064-12a	2	39	1	
30S40E-111395-CHK-0064-13a	1	38	1	10

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
30S40E-111495-CHK-0064-1a	2	45	1	
30S40E-111495-CHK-0064-2a	2	42	1	
30S40E-111495-CHK-0064-3a	2	55	2	
30S40E-111495-CHK-0064-4a	2	87	14	
30S40E-111495-CHK-0064-5a	2	47	1	4

TOTAL AVERAGE CONCENTRATION (pCi/g): 9

Composite System #(1 or 2): 2

COMPOSITE SAMPLE	30S40E-111495-CHK-0064-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
73	9	4

GRID # 0065

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
70S30E-112995-CHK-0065-1a	1	46	1	
70S30E-113095-CHK-0065-2a	2	98	18	
70S30E-120195-CHK-0065-3b	2	65	6	
70S30E-113095-CHK-0065-4a	2	97	18	
70S30E-112995-CHK-0065-5a	1	29	1	
70S30E-112995-CHK-0065-6a	1	48	1	
70S30E-112995-CHK-0065-7a	1	116	31	
70S30E-113095-CHK-0065-8a	2	46	1	
70S30E-112995-CHK-0065-9a	1	36	1	
70S30E-112995-CHK-0065-10a	1	145	45	
70S30E-112995-CHK-0065-11a	1	68	8	
70S30E-113095-CHK-0065-12a	2	107	22	
not taken	N/A	N/A		13

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
70S30E-120195-VER-0065-1a	2	30	1	
70S30E-120195-VER-0065-2a	2	47	1	
70S30E-120195-VER-0065-3a	2	76	10	
70S30E-120195-VER-0065-4a	2	153	39	
70S30E-120195-VER-0065-5a	2	29	1	10

TOTAL AVERAGE CONCENTRATION (pCi/g): 12

Composite System #(1 or 2): 2

COMPOSITE SAMPLE	70S30E-120195-VER-0065-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
62	5	25

GRID # 0066

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
60S30E-112295-CHK-0066-1a	1	35	1	
60S30E-112295-CHK-0066-2a	2	34	1	
60S30E-112295-CHK-0066-3a	1	50	1	
60S30E-112295-CHK-0066-4a	2	41	1	
60S30E-112295-CHK-0066-5a	1	36	1	
60S30E-112295-CHK-0066-6a	2	34	1	
60S30E-112295-CHK-0066-7a	1	42	1	
60S30E-112295-CHK-0066-8a	2	34	1	
60S30E-112295-CHK-0066-9a	1	33	1	
60S30E-112295-CHK-0066-10a	2	46	1	
60S30E-112295-CHK-0066-11a	1	42	1	
60S30E-112295-CHK-0066-12a	2	23	1	
60S30E-112295-CHK-0066-13a	1	24	1	1

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
60S30E-120495-VER-0066-1b	2	50	1	
60S30E-120495-VER-0066-2b	2	43	1	
60S30E-120495-VER-0066-3b	2	54	2	
60S30E-120495-VER-0066-4b	2	59	3	
60S30E-120495-VER-0066-5b	2	49	1	2

TOTAL AVERAGE CONCENTRATION (pCi/g): 1

Composite System #(1 or 2): 2

COMPOSITE SAMPLE	60S30E-120495-VER-0066-Cb	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
58	3	3

ME-017166

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0067

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
50S30E-112295-CHK-0067-1a	1	58	3	
50S30E-112295-CHK-0067-2a	2	76	10	
50S30E-112295-CHK-0067-3a	1	83	15	
50S30E-112295-CHK-0067-4a	2	71	8	
50S30E-112295-CHK-0067-5a	1	40	1	
50S30E-112295-CHK-0067-6a	2	29	1	
50S30E-112295-CHK-0067-7a	1	36	1	
50S30E-112295-CHK-0067-8a	2	67	6	
50S30E-112295-CHK-0067-9a	1	33	1	
50S30E-112295-CHK-0067-10a	2	39	1	
50S30E-112295-CHK-0067-11a	1	68	8	
50S30E-112295-CHK-0067-12a	2	67	6	
50S30E-112295-CHK-0067-13a	1	47	1	5

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
50S30E-112895-VER-0067-1a	2	69	7	
50S30E-112895-VER-0067-2a	2	74	9	
50S30E-112895-VER-0067-3a	2	75	10	
50S30E-112895-VER-0067-4a	2	66	6	
50S30E-112895-VER-0067-5a	2	77	10	8

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
6	2

COMPOSITE SAMPLE	50S30E-112895-VER-0067-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
81	12	10

GRID # 0068

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
30S30E-112895-CHK-0068-1a	1	45	1	
30S30E-112895-CHK-0068-2a	2	100	19	
30S30E-112895-CHK-0068-3a	2	78	11	
30S30E-112895-CHK-0068-4a	2	69	7	
30S30E-112895-CHK-0068-5a	2	53	1	
30S30E-112895-CHK-0068-6a	1	52	1	
30S30E-112895-CHK-0068-7a	1	142	43	
30S30E-112895-CHK-0068-8a	1	82	14	
30S30E-112895-CHK-0068-9a	2	104	21	
30S30E-112895-CHK-0068-10a	2	153	39	
30S30E-112895-CHK-0068-11a	2	82	12	
30S30E-112895-CHK-0068-12a	1	68	8	
30S30E-112895-CHK-0068-13a	1	118	32	16

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
30S30E-120195-VER-0068-1a	2	72	8	
30S30E-120195-VER-0068-2a	2	62	5	
30S30E-120195-VER-0068-3a	2	53	1	
30S30E-120195-VER-0068-4a	2	78	11	
30S30E-120195-VER-0068-5a	2	82	12	7

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
14	2

COMPOSITE SAMPLE	30S30E-120195-VER-0068-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
62	5	7

GRID # 0069

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
20S30E-112895-CHK-0069-1a	2	80	11	
20S30E-112895-CHK-0069-2a	2	100	19	
20S30E-112895-CHK-0069-3a	2	91	16	
20S30E-112895-CHK-0069-4a	2	75	10	
20S30E-112895-CHK-0069-5a	1	57	2	
20S30E-112895-CHK-0069-6a	1	74	11	
20S30E-112895-CHK-0069-7a	1	64	6	
20S30E-112895-CHK-0069-8a	1	66	7	
20S30E-112895-CHK-0069-9a	1	121	33	
20S30E-112895-CHK-0069-10a	1	84	15	
20S30E-112895-CHK-0069-11a	1	124	35	
20S30E-112895-CHK-0069-12a	1	136	40	
20S30E-112895-CHK-0069-13a	2	106	21	17

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
20S30E-120195-VER-0069-1a	1	67	7	
20S30E-120195-VER-0069-2a	1	71	9	
20S30E-120195-VER-0069-3a	1	63	5	
20S30E-120195-VER-0069-4a	1	100	23	
20S30E-120195-VER-0069-5a	1	81	14	12

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
16	1

COMPOSITE SAMPLE	20S30E-120195-VER-0069-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
92	19	8

ME-017167

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0070

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
80S20-112195-VER-TESTPIT-0070-5 (13 SAMPLE AVERAGE)			44	
80S20-112195-VER-TESTPIT-0070-1 (6 SAMPLE AVERAGE)			22	
80S20-112195-VER-TESTPIT-0070-3 (6 SAMPLE AVERAGE)			21	
				29

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)

TOTAL AVERAGE CONCENTRATION (pCi/g)
29

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	80S20E-112195-VER-0070-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g) <1	EBERLINE ANALYSIS (pCi/g) 3

GRID # 0071

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
not taken	N/A	N/A		
60S20E-112595-CHK-0071-2a	2	100	19	
60S20E-112595-CHK-0071-3a	2	66	6	
60S20E-112595-CHK-0071-4a	2	70	8	
60S20E-112595-CHK-0071-5a	2	28	1	
not taken	N/A	N/A		
60S20E-112595-CHK-0071-7a	2	57	3	
60S20E-112595-CHK-0071-8a	2	148	37	
not taken	N/A	N/A		
60S20E-112595-CHK-0071-10a	1	65	6	
not taken	N/A	N/A		
60S20E-112595-CHK-0071-12a	2	61	4	
60S20E-112595-CHK-0071-13a	2	127	29	13

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
60S20E-112995-VER-0071-1a	2	76	10	
60S20E-112995-VER-0071-2a	2	26	1	
60S20E-112995-VER-0071-3a	2	37	1	
60S20E-112995-VER-0071-4a	2	26	1	
60S20E-112995-VER-0071-5a	2	32	1	3

TOTAL AVERAGE CONCENTRATION (pCi/g)
9

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	60S20E-112995-VER-0071-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
39	<1	6

GRID # 0072

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
50S20E-112595-CHK-0072-1a	1	49	1	
50S20E-112595-CHK-0072-2a	2	26	1	
50S20E-112595-CHK-0072-3a	2	88	14	
50S20E-112595-CHK-0072-4a	2	43	1	
50S20E-112595-CHK-0072-5a	2	54	2	
50S20E-112595-CHK-0072-6a	1	55	1	
50S20E-112595-CHK-0072-7a	1	45	1	
50S20E-112595-CHK-0072-8a	1	68	8	
50S20E-112595-CHK-0072-9a	2	71	8	
50S20E-112595-CHK-0072-10a	1	33	1	
not taken	N/A	N/A		
50S20E-112595-CHK-0072-12a	2	58	3	
50S20E-112595-CHK-0072-13a	2	149	38	7

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
50S20E-112995-VER-0072-1a	2	26	1	
50S20E-112995-VER-0072-2a	2	34	1	
50S20E-112995-VER-0072-3a	2	21	1	
50S20E-112995-VER-0072-4a	2	36	1	
50S20E-112995-VER-0072-5a	2	23	1	1

TOTAL AVERAGE CONCENTRATION (pCi/g)
5

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	50S20E-112995-VER-0072-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
38	<1	2

ME-017168

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0073

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
30S20E-112595-CHK-0073-1a	1	75	11	
30S20E-112595-CHK-0073-2a	2	52	1	
30S20E-112595-CHK-0073-3a	1	62	5	
30S20E-112595-CHK-0073-4a	2	56	2	
30S20E-112595-CHK-0073-5a	1	98	22	
30S20E-112595-CHK-0073-6a	2	71	8	
30S20E-112595-CHK-0073-7a	1	63	5	
30S20E-112595-CHK-0073-8a	2	82	12	
30S20E-112595-CHK-0073-9a	1	91	19	
30S20E-112595-CHK-0073-10a	2	102	20	
30S20E-112595-CHK-0073-11a	1	100	23	
30S20E-112595-CHK-0073-12a	2	77	10	
30S20E-112595-CHK-0073-13a	1	100	23	12

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
30S20E-112895-VER-0073-1a	2	75	10	
30S20E-112895-VER-0073-2a	2	97	18	
30S20E-112895-VER-0073-3a	2	106	21	
30S20E-112895-VER-0073-4a	2	124	28	
30S20E-112895-VER-0073-5a	2	86	14	18

TOTAL AVERAGE CONCENTRATION (pCi/g)
14

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	30S20E-112895-VER-0073-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
86	14	4

GRID # 0074

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
30S10E-112595-CHK-0074-1a	1	80	13	
30S10E-112595-CHK-0074-2a	2	78	11	
30S10E-112595-CHK-0074-3a	1	87	17	
30S10E-112595-CHK-0074-4a	2	93	16	
30S10E-112595-CHK-0074-5a	1	80	13	
30S10E-112595-CHK-0074-6a	2	94	17	
30S10E-112595-CHK-0074-7a	1	47	1	
30S10E-112595-CHK-0074-8a	2	70	8	
30S10E-112595-CHK-0074-9a	1	56	2	
30S10E-112595-CHK-0074-10a	2	128	30	
30S10E-112595-CHK-0074-11a	1	100	23	
30S10E-112595-CHK-0074-12a	2	57	3	
30S10E-112595-CHK-0074-13a	1	59	3	12

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
30S10E-112895-VER-0074-1a	2	68	7	
30S10E-112895-VER-0074-2a	2	57	3	
30S10E-112895-VER-0074-3a	2	115	25	
30S10E-112895-VER-0074-4a	2	93	16	
30S10E-112895-VER-0074-5a	2	76	10	12

TOTAL AVERAGE CONCENTRATION (pCi/g)
12

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	30S10E-112895-VER-0074-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
117	25	11

GRID # 0075

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
20S10E-112295-CHK-0075-1a	1	69	8	
20S10E-112295-CHK-0075-2a	2	99	19	
20S10E-112295-CHK-0075-3a	2	120	27	
20S10E-112295-CHK-0075-4a	2	58	3	
20S10E-112295-CHK-0075-5a	1	72	10	
20S10E-112295-CHK-0075-6a	1	79	13	
20S10E-112295-CHK-0075-7a	2	74	9	
20S10E-112295-CHK-0075-8a	1	63	5	
20S10E-112295-CHK-0075-9a	2	63	5	
20S10E-112295-CHK-0075-10a	2	46	1	
20S10E-112295-CHK-0075-11a	2	94	17	
20S10E-112295-CHK-0075-12a	1	39	1	
20S10E-112295-CHK-0075-13a	1	76	11	10

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
20S10E-112895-VER-0075-1a	2	60	4	
20S10E-112895-VER-0075-2a	2	54	2	
20S10E-112895-VER-0075-3a	2	106	21	
20S10E-112895-VER-0075-4a	2	103	20	
20S10E-112895-VER-0075-5a	2	51	1	10

TOTAL AVERAGE CONCENTRATION (pCi/g)
10

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	20S10E-112895-VER-0075-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
92	16	3

ME-017169

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0076

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
not taken	N/A	N/A		
20S0E-112095-CHK-0076-2a	1	114	30	
20S0E-112095-CHK-0076-3a	1	76	11	
not taken	N/A	N/A		
20S0E-112095-CHK-0076-5a	1	70	9	
not taken	N/A	N/A		
20S0E-112095-CHK-0076-7a	2	64	5	
20S0E-112095-CHK-0076-8a	1	105	25	
not taken	N/A	N/A		
20S0E-112095-CHK-0076-10a	2	61	4	
not taken	N/A	N/A		
20S0E-112095-CHK-0076-12a	1	84	15	
20S0E-112095-CHK-0076-13a	2	73	9	14

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
20S0E-112195-VER-0076-1a	2	117	25	
20S0E-112195-VER-0076-2a	2	63	5	
20S0E-112195-VER-0076-3a	2	146	36	
20S0E-112195-VER-0076-4a	2	65	6	
20S0E-112195-VER-0076-5a	2	84	13	17

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
15	2

COMPOSITE SAMPLE	20S0E-112195-VER-0076-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
105	21	21

GRID # 0077

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
30S130E-111795-CHK-0077-1a	1	64	6	
30S130E-111795-CHK-0077-2a	2	73	9	
30S130E-111795-CHK-0077-3a	1	67	7	
30S130E-111795-CHK-0077-4a	1	97	22	
30S130E-111795-CHK-0077-5a	1	74	11	
30S130E-111795-CHK-0077-6a	2	107	22	
30S130E-111795-CHK-0077-7a	1	83	15	
30S130E-111795-CHK-0077-8a	1	93	20	
30S130E-111795-CHK-0077-9a	1	93	20	
30S130E-111795-CHK-0077-10a	1	96	21	
30S130E-111795-CHK-0077-11a	1	49	1	
30S130E-111795-CHK-0077-12a	1	90	18	
30S130E-111795-CHK-0077-13a	1	87	17	15

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
30S130E-120495-VER-0077-1c	1	92	19	
30S130E-120495-VER-0077-2c	1	82	14	
30S130E-120495-VER-0077-3c	1	74	11	
30S130E-120495-VER-0077-4c	1	100	23	
30S130E-120495-VER-0077-5c	1	104	25	18

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
16	1

COMPOSITE SAMPLE	30S130E-120495-VER-0077-Cc	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
77	12	7

GRID # 0078

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
Partial Grid wall samples all <30	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
130N120E-112895-CHK-0078-6a	2	64	5	
130N120E-112895-CHK-0078-7a	1	101	23	
130N120E-112895-CHK-0078-8a	2	120	27	
130N120E-112895-CHK-0078-9a	1	102	24	
130N120E-112895-CHK-0078-10a	2	71	8	
130N120E-112895-CHK-0078-11a	1	81	14	
130N120E-112895-CHK-0078-12a	2	71	8	
130N120E-112895-CHK-0078-13a	1	59	3	14

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
130N120E-112895-VER-0078-1a	2	121	27	
130N120E-112895-VER-0078-2a	2	85	13	
130N120E-112895-VER-0078-3a	2	78	11	
130N120E-112895-VER-0078-4a	2	59	3	
130N120E-112895-VER-0078-5a	2	52	1	11

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
13	2

COMPOSITE SAMPLE	130N120E-112895-VER-0078-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
108	22	6

ME-017170

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:
External Remediation Grid Block Data

GRID # 0079

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
Partial Grid wall samples all <30	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
130S130E-112895-CHK-0079-6a	2	79	11	
130S130E-112895-CHK-0079-7a			1	
130S130E-112895-CHK-0079-8a			1	
130S130E-112895-CHK-0079-9a	1	57	2	
130S130E-112895-CHK-0079-10a	2	83	13	
130S130E-112895-CHK-0079-11a	1	64	6	
130S130E-112895-CHK-0079-12a	2	56	2	
130S130E-112895-CHK-0079-13a	1		1	5

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
130S130E-112895-CHK-0079-1a	2	69	7	
130S130E-112895-CHK-0079-2a	2	68	7	
130S130E-112895-CHK-0079-3a	2	106	21	
130S130E-112895-CHK-0079-4a	2	48	1	
130S130E-112895-CHK-0079-5a	2	46	1	7

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
6	2

COMPOSITE SAMPLE	130S130E-112895-CHK-0079-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
55	2	7

GRID # 0080

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
60S80E-112095-CHK-0080-1a	2	103	20	
60S80E-112095-CHK-0080-1a	2	115	25	
60S80E-112095-CHK-0080-1a	1	108	27	
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		
not taken	N/A	N/A		24

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
none taken	N/A	N/A		
none taken	N/A	N/A		
none taken	N/A	N/A		
none taken	N/A	N/A		
none taken	N/A	N/A		#DIV/0!

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
24	N/A

COMPOSITE SAMPLE		
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
N/A		

GRID # 0081

Check Samples Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
No Remediation Performed	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		#DIV/0!

Verification Samples Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
not done	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		#DIV/0!

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
#DIV/0!	1

COMPOSITE SAMPLE		
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)

ME-017171

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0082

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
70N150E-102095-NwallE-0082-0-2	2	109	22	
70N150E-102095-NwallE-0082-2-4	2	59	3	
70N150E-102095-NwallE-0082-4-6	2	75	10	
70N150E-102095-NwallE-0082-6-8	2	112	24	
70N150E-102095-NwallE-0082-8-10	2	69	7	
70N150E-102095-NwallW-0082-0-2	1	83	15	
70N150E-102095-NwallW-0082-2-4	1	84	15	
70N150E-102095-NwallW-0082-4-6	1	82	14	
70N150E-102095-NwallW-0082-6-8	1	129	37	
70N150E-102095-NwallW-0082-8-10	2	122	27	
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		17

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		#DIV/0!

TOTAL AVERAGE CONCENTRATION (pCi/g)
17

Composite System #(1 or 2)
N/A

COMPOSITE SAMPLE

IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)

GRID # 0083

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
70N160E-102095-NwallW-0083-0-2	2	62	6	
70N160E-102095-NwallW-0083-2-4	2	73	9	
70N160E-102095-NwallW-0083-4-6	2	87	14	
70N160E-102095-NwallW-0083-6-8	2	120	27	
70N160E-102095-NwallW-0083-8-10	2	88	14	
70N160E-102095-NwallE-0083-0-2	2	45	1	
70N160E-102095-NwallE-0083-2-4	2	116	25	
70N160E-102095-NwallE-0083-4-6	2	85	13	
70N160E-102095-NwallE-0083-6-8	2	98	18	
70N160E-102095-NwallE-0083-8-10	2	65	6	
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		13

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		#DIV/0!

TOTAL AVERAGE CONCENTRATION (pCi/g)
13

Composite System #(1 or 2)

COMPOSITE SAMPLE

IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)

GRID # 0084

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
80N170E-102395-WwallS-0084-4-6	2	73	9	
80N170E-102395-WwallS-0084-6-8	2	51	1	
80N170E-102395-WwallN-0084-4-6	1	62	5	
80N170E-102395-WwallN-0084-6-8	1	59	3	
80N170E-102395-WwallC-0084-8-10	2	78	11	
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		6

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		#DIV/0!

TOTAL AVERAGE CONCENTRATION (pCi/g)
6

Composite System #(1 or 2)
N/A

COMPOSITE SAMPLE

IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)

ME-017172

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:
External Remediation Grid Block Data

GRID # 0085

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
10S80E-102495-CHK-0085-1wall	1	93	20	
10S80E-102495-CHK-0085-2wall	2	142	35	
10S80E-102495-CHK-0085-aNwallW	2	206	59	
10S80E-102495-CHK-0085-bNwallW	1	211	76	
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		48

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		#DIV/0!

TOTAL AVERAGE CONCENTRATION (pCi/g)
48

Composite System #(1 or 2)
1

COMPOSITE SAMPLE		
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)

GRID # 0086

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
20S120E-111595-CHK-0086-9a	2	64	5	
20S120E-111595-CHK-0086-10a	2	113	24	
20S120E-111595-CHK-0086-11a	1	102	24	
20S120E-111595-CHK-0086-12a	1	93	20	
20S120E-111595-CHK-0086-13a	1	99	23	19

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
20S120E-111695-VER-0086-1a	2	68	3	
20S120E-111695-VER-0086-2a	2	89	15	
20S120E-111695-VER-0086-3a	2	103	20	
20S120E-111695-VER-0086-4a	2	92	16	
20S120E-111695-VER-0086-5a	2	98	18	14

TOTAL AVERAGE CONCENTRATION (pCi/g)
17

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	20S120E-111695-VER-0086-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
56	2	10

GRID # 0087

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
20S130E-111995-CHK-0087-9a	1	89	18	
20S130E-111995-CHK-0087-10a	2	72	8	
20S130E-111995-CHK-0087-11a	1	72	10	
20S130E-111995-CHK-0087-12a	2	100	19	
20S130E-112795-CHK-0087-13b	1	87	17	14

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
20S130E-113095-VER-0087-1a	1	78	12	
20S130E-113095-VER-0087-2a	1	45	1	
20S130E-113095-VER-0087-3a	1	111	28	
20S130E-113095-VER-0087-4a	1	54	1	
20S130E-113095-VER-0087-5a	1	95	21	13

TOTAL AVERAGE CONCENTRATION (pCi/g)
14

Composite System #(1 or 2)
1

COMPOSITE SAMPLE	20S130E-113095-VER-0087-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
64	6	10

ME-017173

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0088

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
?				
				#DIV/0!

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
?				
				#DIV/0!

TOTAL AVERAGE CONCENTRATION (pCi/g)
#DIV/0!

Composite System #(1 or 2)
2

COMPOSITE SAMPLE

IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)

GRID # 0089

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
30S120E-111495-CHK-0089-1a	1	84	15	
30S120E-111495-CHK-0089-2a	1	110	28	
30S120E-111495-CHK-0089-3a	1	80	13	
30S120E-111495-CHK-0089-4a	1	79	13	
30S120E-111495-CHK-0089-5a	1	108	27	
30S120E-111495-CHK-0089-6a	1	94	20	
30S120E-111495-CHK-0089-7a	1	77	12	
30S120E-111495-CHK-0089-8a	2	79	11	
30S120E-111495-CHK-0089-9a	2	83	13	
30S120E-111495-CHK-0089-10a	2	76	10	
30S120E-111495-CHK-0089-11a	2	102	20	
30S120E-111495-CHK-0089-12a	2	117	25	
30S120E-111495-CHK-0089-13a	2	126	29	18

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
30S120E-111595-VER-0089-1a	2	98	18	
30S120E-111595-VER-0089-2a	2	116	25	
30S120E-111595-VER-0089-3a	2	124	28	
30S120E-111595-VER-0089-4a	2	99	19	
30S120E-111595-VER-0089-5a	2	88	14	21

TOTAL AVERAGE CONCENTRATION (pCi/g)
19

Composite System #(1 or 2)
2

COMPOSITE SAMPLE 30S120E-111595-VER-0089-Ca

IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
110	23	7

GRID # 0090

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
30S140E-112195-CHK-0090-1a	2	93	16	
not taken	N/A	N/A		
30S140E-112195-CHK-0090-3a			1	
30S140E-112195-CHK-0090-4a	1	50	1	
not taken	N/A	N/A		
30S140E-112195-CHK-0090-6a	1	61	4	
30S140E-112195-CHK-0090-7a	2	79	11	
not taken	N/A	N/A		
30S140E-112195-CHK-0090-9a	2	79	11	
not taken	N/A	N/A		
30S140E-112195-CHK-0090-11a	2	68	7	
30S140E-112195-CHK-0090-12a	1	50	1	
30S140E-112195-CHK-0090-13a	1	62	5	6

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
30S140E-113095-VER-0090-1a	1	90	18	
30S140E-113095-VER-0090-2a	1	64	6	
30S140E-113095-VER-0090-3a	1	95	21	
30S140E-113095-VER-0090-4a	1	55	1	
30S140E-113095-VER-0090-5a	1	80	13	12

TOTAL AVERAGE CONCENTRATION (pCi/g)
8

Composite System #(1 or 2)
1

COMPOSITE SAMPLE 30S140E-113095-VER-0090-Ca

IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
58	3	7

ME-017174

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0091

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
40S120E-111695-CHK-0091-1a	2	149	38	
40S120E-111695-CHK-0091-2a	2	62	5	
40S120E-111695-CHK-0091-3a	2	87	14	
40S120E-111695-CHK-0091-4a	2	109	22	
40S120E-111695-CHK-0091-5a	1	112	29	
40S120E-111695-CHK-0091-6a	1	155	49	
40S120E-111695-CHK-0091-7a	1	62	5	
40S120E-111695-CHK-0091-8a	1	92	19	
40S120E-111695-CHK-0091-9a	1	102	24	
40S120E-111695-CHK-0091-10a	2	93	16	
40S120E-111695-CHK-0091-11a	2	106	21	
40S120E-111695-CHK-0091-12a	2	120	27	
40S120E-111695-CHK-0091-13a	1	78	12	22

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
40S120E-111795-VER-0091-1a	2	165	44	
40S120E-111795-VER-0091-2a	2	69	15	
40S120E-111795-VER-0091-3a	2	63	5	
40S120E-111795-VER-0091-4a	2	90	16	
40S120E-111795-VER-0091-5a	2	115	25	21

TOTAL AVERAGE CONCENTRATION (pCi/g)
21

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	40S120E-111795-VER-0091-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
85	13	3

GRID # 0092

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
40S130E-113095-CHK-0092-1a	2	94	17	
40S130E-113095-CHK-0092-2a	2	120	27	
40S130E-120195-CHK-0092-3b	1	79	13	
40S130E-113095-CHK-0092-4a	2	104	21	
40S130E-113095-CHK-0092-5a	1	110	28	
40S130E-113095-CHK-0092-6a	2	51	1	
40S130E-120195-CHK-0092-7b	1	79	13	
40S130E-113095-CHK-0092-8a	2	68	7	
40S130E-120195-CHK-0092-9b	1	98	22	
40S130E-120195-CHK-0092-10b	1	107	26	
40S130E-113095-CHK-0092-11a	1	109	27	
40S130E-113095-CHK-0092-12a	2	135	32	
40S130E-113095-CHK-0092-13a	1	117	31	20

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
40S130E-120495-VER-0092-1b	2	52	1	
40S130E-120495-VER-0092-2b	2	146	36	
40S130E-120495-VER-0092-3b	2	154	40	
40S130E-120495-VER-0092-4b	2	143	35	
40S130E-120495-VER-0092-5b	2	60	4	23

TOTAL AVERAGE CONCENTRATION (pCi/g)
21

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	40S130E-120495-VER-0092-Cb	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
77	10	3

GRID # 0093

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
40S140E-113095-CHK-0093-1a	1	79	13	
40S140E-113095-CHK-0093-2a	2	117	25	
40S140E-113095-CHK-0093-3a	1	76	11	
40S140E-113095-CHK-0093-4a	2	72	8	
40S140E-113095-CHK-0093-5a	1	88	17	
40S140E-113095-CHK-0093-6a	2	57	3	
40S140E-120195-CHK-0093-7b	1	135	40	
40S140E-120195-CHK-0093-8b	1	69	8	
40S140E-120195-CHK-0093-9a	2	176	48	
40S140E-113095-CHK-0093-10a	2	106	21	
40S140E-113095-CHK-0093-11a	1	60	4	
40S140E-113095-CHK-0093-12a	2	94	17	
40S140E-120195-CHK-0093-13b	1	104	25	18

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
40S140E-120195-VER-0093-1a	2	115	25	
40S140E-120195-VER-0093-2a	2	142	35	
40S140E-120195-VER-0093-3a	2	205	59	
40S140E-120195-VER-0093-4a	2	68	7	
40S140E-120195-VER-0093-5a	2	111	23	30

TOTAL AVERAGE CONCENTRATION (pCi/g)
22

Composite System #(1 or 2)
2

COMPOSITE SAMPLE	40S140E-120195-VER-0093-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
104	21	24

ME-017175

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0094

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
not taken	N/A	N/A		
10S90E-120195-CHK-0094-2a	1	111	28	
10S90E-120195-CHK-0094-3a	1	205	73	
10S90E-120195-CHK-0094-4a	1	117	31	
not taken	N/A	N/A		
10S90E-112995-CHK-0094-6a	2	79	11	
10S90E-112995-CHK-0094-7b	1	38	1	
10S90E-112995-CHK-0094-8b	1	88	17	
10S90E-112995-CHK-0094-9b	1	144	44	
10S90E-112995-CHK-0094-10b	1	147	46	
10S90E-112995-CHK-0094-11c	1	180	61	
10S90E-112995-CHK-0094-12c	1	223	82	
10S90E-112995-CHK-0094-13c	2	123	28	38

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
10S90E-120195-VER-0094-1a	1	58	3	
10S90E-120195-VER-0094-2a	1	74	11	
10S90E-120195-VER-0094-3a	1	161	52	
10S90E-120195-VER-0094-4a	1	104	25	
10S90E-120195-VER-0094-5a	1	113	29	24

TOTAL AVERAGE CONCENTRATION (pCi/g)
34

Composite System #(1 or 2)
1

COMPOSITE SAMPLE	10S90E-120195-VER-0094-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
124	35	16

GRID # 0095

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
No Remediation Performed	N/A	N/A		
				#DIV/0!

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
?				#DIV/0!

TOTAL AVERAGE CONCENTRATION (pCi/g)
#DIV/0!

Composite System #(1 or 2)

COMPOSITE SAMPLE		
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)

GRID # 0096

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
40S30E-112295-CHK-0096-1a	1	51	1	
40S30E-112295-CHK-0096-2a	1	58	3	
40S30E-112295-CHK-0096-3a	1	42	1	
40S30E-112295-CHK-0096-4a	1	60	4	
40S30E-112295-CHK-0096-5a	1	46	1	
40S30E-112295-CHK-0096-6a	2	83	13	
40S30E-112295-CHK-0096-7a	1	62	5	
40S30E-112295-CHK-0096-8a	2	50	1	
40S30E-112295-CHK-0096-9a	1	59	3	
40S30E-112295-CHK-0096-10a	2	59	3	
40S30E-112295-CHK-0096-11a	2	65	6	
40S30E-112295-CHK-0096-12a	2	69	7	
40S30E-112295-CHK-0096-13a	1	60	4	4

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
40S30E-112995-VER-0096-1a	1	53	1	
40S30E-112995-VER-0096-2a	1	51	1	
40S30E-112995-VER-0096-3a	1	46	1	
40S30E-112995-VER-0096-4a	1	84	15	
40S30E-112995-VER-0096-5a	1	69	8	5

TOTAL AVERAGE CONCENTRATION (pCi/g)
4

Composite System #(1 or 2)
1

COMPOSITE SAMPLE	40S30E-112995-VER-0096-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
80	13	3

ME-017176

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0097

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
40S20E-112595-CHK-0097-1a	1	95	21	
40S20E-112595-CHK-0097-2a	1	71	9	
40S20E-112595-CHK-0097-3a	1	57	2	
40S20E-112595-CHK-0097-4a	2	99	19	
40S20E-112595-CHK-0097-5a	1	88	17	
40S20E-112595-CHK-0097-6a	2	79	11	
40S20E-112595-CHK-0097-7a	1	60	4	
40S20E-112595-CHK-0097-8a	2	87	14	
40S20E-112595-CHK-0097-9a	1	51	1	
40S20E-112595-CHK-0097-10a	1	66	7	
40S20E-112595-CHK-0097-11a	1	51	1	
40S20E-112595-CHK-0097-12a	2	138	33	
40S20E-112595-CHK-0097-13a	2	65	6	11

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
40S20E-112895-VER-0097-1a	2	62	1	
40S20E-112895-VER-0097-2a	2	51	1	
40S20E-112895-VER-0097-3a	2	112	24	
40S20E-112895-VER-0097-4a	2	74	9	
40S20E-112895-VER-0097-5a	2	63	5	8

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
10	2

COMPOSITE SAMPLE	40S20E-112895-VER-0097-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
81	12	5

GRID # 0098

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
50S120E-111695-CHK-0098-1a	1	109	27	
50S120E-111695-CHK-0098-2a	2	88	14	
50S120E-111695-CHK-0098-3a	1	84	15	
50S120E-111695-CHK-0098-4a	2	72	8	
50S120E-111695-CHK-0098-5a	1	93	20	
50S120E-111695-CHK-0098-6a	2	86	13	
50S120E-111695-CHK-0098-7a	1	104	25	
50S120E-111695-CHK-0098-8a	2	52	1	
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		15

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
50S120E-111795-VER-0098-1a	2	89	15	
50S120E-111795-VER-0098-2a	2	69	7	
50S120E-111795-VER-0098-3a	2	87	14	
50S120E-111795-VER-0098-4a	2	64	5	
50S120E-111795-VER-0098-5a	2	73	9	10

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
13	2

COMPOSITE SAMPLE	50S120E-111795-VER-0098-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
61	4	7

GRID # 0099

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
50S130E-112995-CHK-0099-1a	1	114	30	
50S130E-112795-CHK-0099-2a	2	98	18	
50S130E-112995-CHK-0099-3a	1	85	16	
50S130E-112795-CHK-0099-4a	2	73	9	
50S130E-112995-CHK-0099-5a	1	103	24	
50S130E-112795-CHK-0099-6a	2	118	26	
50S130E-112995-CHK-0099-7a	1	49	1	
50S130E-113095-CHK-0099-8a	2	99	19	
not taken	N/A	N/A		
50S130E-113095-CHK-0099-10a	2	113	24	
not taken	N/A	N/A		
not taken	N/A	N/A		
50S130E-113095-CHK-0099-13a	1	59	3	17

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
50S130E-120195-VER-0099-1a	2	68	7	
50S130E-120195-VER-0099-2a	2	41	1	
50S130E-120195-VER-0099-3a	2	69	7	
50S130E-120195-VER-0099-4a	2	34	1	
50S130E-120195-VER-0099-5a	2	44	1	3

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
12	2

COMPOSITE SAMPLE	40S140E-120195-VER-0099-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
44	<1	6

ME-017177

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0100

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
50S140E-113095-CHK-0100-1a	2	99	19	
50S140E-113095-CHK-0100-2a	1	93	20	
50S140E-113095-CHK-0100-3a	2	81	12	
50S140E-113095-CHK-0100-4a	2	202	58	
50S140E-113095-CHK-0100-5a	1	82	14	
50S140E-113095-CHK-0100-6a	1	118	32	
50S140E-113095-CHK-0100-7a	1	93	20	
50S140E-113095-CHK-0100-8a	2	62	5	
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		23

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
50S140E-120195-VER-0100-1a	2	135	32	
50S140E-120195-VER-0100-2a	2	52	1	
50S140E-120195-VER-0100-3a	2	44	1	
50S140E-120195-VER-0100-4a	2	146	36	
50S140E-120195-VER-0100-5a	2	86	14	17

TOTAL AVERAGE CONCENTRATION (pCi/g)
20

Composite System #(1 or 2)
2

COMPOSITE SAMPLE 50S140E-120195-VER-0100-Ca

IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
83	13	6

GRID # 0101

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
No Remediation performed				
				#DIV/0!

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
?				
				#DIV/0!

TOTAL AVERAGE CONCENTRATION (pCi/g)
#DIV/0!

Composite System #(1 or 2)

COMPOSITE SAMPLE

IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)

GRID # 0102

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
20S20E-112595-CHK-0102-1a	1	38	1	
20S20E-112595-CHK-0102-2a	2	154	40	
20S20E-112595-CHK-0102-3a	1	35	1	
20S20E-112595-CHK-0102-4a	2	86	14	
20S20E-112595-CHK-0102-5a	1	80	13	
20S20E-112595-CHK-0102-6a	2	108	22	
20S20E-112595-CHK-0102-7a	1	38	1	
20S20E-112595-CHK-0102-8a	2	60	4	
20S20E-112595-CHK-0102-9a	1	65	6	
20S20E-112595-CHK-0102-10a	2	60	4	
20S20E-112595-CHK-0102-11a	1	50	1	
20S20E-112595-CHK-0102-12a	2	86	14	
20S20E-112595-CHK-0102-13a	1	116	31	12

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
20S20E-112895-VER-0102-1a	2	78	11	
20S20E-112895-VER-0102-2a	2	133	32	
20S20E-112895-VER-0102-3a	2	50	1	
20S20E-112895-VER-0102-4a	2	86	14	
20S20E-112895-VER-0102-5a	2	107	22	16

TOTAL AVERAGE CONCENTRATION (pCi/g)
13

Composite System #(1 or 2)
2

COMPOSITE SAMPLE 20S20E-112895-VER-0102-Ca

IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
61	4	3

ME-017178

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

Concentrations are of Total Uranium (U-234 + U-235 + U-238)

Texas Instruments, Attleboro:

External Remediation Grid Block Data

GRID # 0103

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
20S40E-113095-CHK-0103-6a	1	95	21	
not taken	N/A	N/A		
20S40E-113095-CHK-0103-8a	2	79	11	
20S40E-112995-CHK-0103-9a	1	136	40	
20S40E-112995-CHK-0103-10a	2	95	17	
20S40E-112995-CHK-0103-11a	1	103	24	
20S40E-112995-CHK-0103-12a	2	159	41	
20S40E-112995-CHK-0103-13a	1	139	42	28

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
20S40E-120695-VER-0103-1a	2	94	17	
20S40E-120695-VER-0103-2a	2	106	21	
20S40E-120695-VER-0103-3a	2	87	14	
20S40E-120695-VER-0103-4a	2	97	18	
20S40E-120695-VER-0103-5a	2	297	94	33

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
30	2

COMPOSITE SAMPLE	20S40E-120695-VER-0103-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
113	24	36

How do we choose which pair to use?

GRID # 0104

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
not taken	N/A	N/A		
70S20E-112895-CHK-0104-2a	2	76	10	
70S20E-112595-CHK-0104-3a	1	61	4	
not taken	N/A	N/A		
70S20E-112895-CHK-0104-5a	2	68	7	
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		7

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
70S20E-112995-VER-0104-1a	2	73	9	
70S20E-112995-VER-0104-2a	2	86	14	
70S20E-112995-VER-0104-3a	2	60	4	
70S20E-112995-VER-0104-4a	2	53	1	
70S20E-112995-VER-0104-5a	2	48	1	6

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
6	2

COMPOSITE SAMPLE	70S20E-112995-VER-0104-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
64	6	7

GRID # 0105

Check Samples

Sample #	System # (1 or 2)	Gross Counts	Check Correlation Concentration (pCi/g)	Average Check Sample Concentration (pCi/g)
not taken	N/A	N/A		
	N/A	N/A		
40S10E-112595-CHK-0105-3a	1	119	32	
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
40S10E-112595-CHK-0105-8a	1	110	28	
not taken	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		
	N/A	N/A		30

Verification Samples

Sample #	System # (1 or 2)	Gross Counts	Verification Correlation Concentration (pCi/g)	Average Verification Sample Concentration (pCi/g)
40S10E-112995-VER-0105-1a	2	92	16	
40S10E-112995-VER-0105-2a	2	32	1	
40S10E-112995-VER-0105-3a	2	50	1	
40S10E-112995-VER-0105-4a	2	26	1	
40S10E-112995-VER-0105-5a	2	42	1	4

TOTAL AVERAGE CONCENTRATION (pCi/g)	Composite System #(1 or 2)
11	2

COMPOSITE SAMPLE	40S10E-112995-VER-0105-Ca	
IN HOUSE ANALYSIS (gross counts)	(pCi/g)	EBERLINE ANALYSIS (pCi/g)
43	<1	6

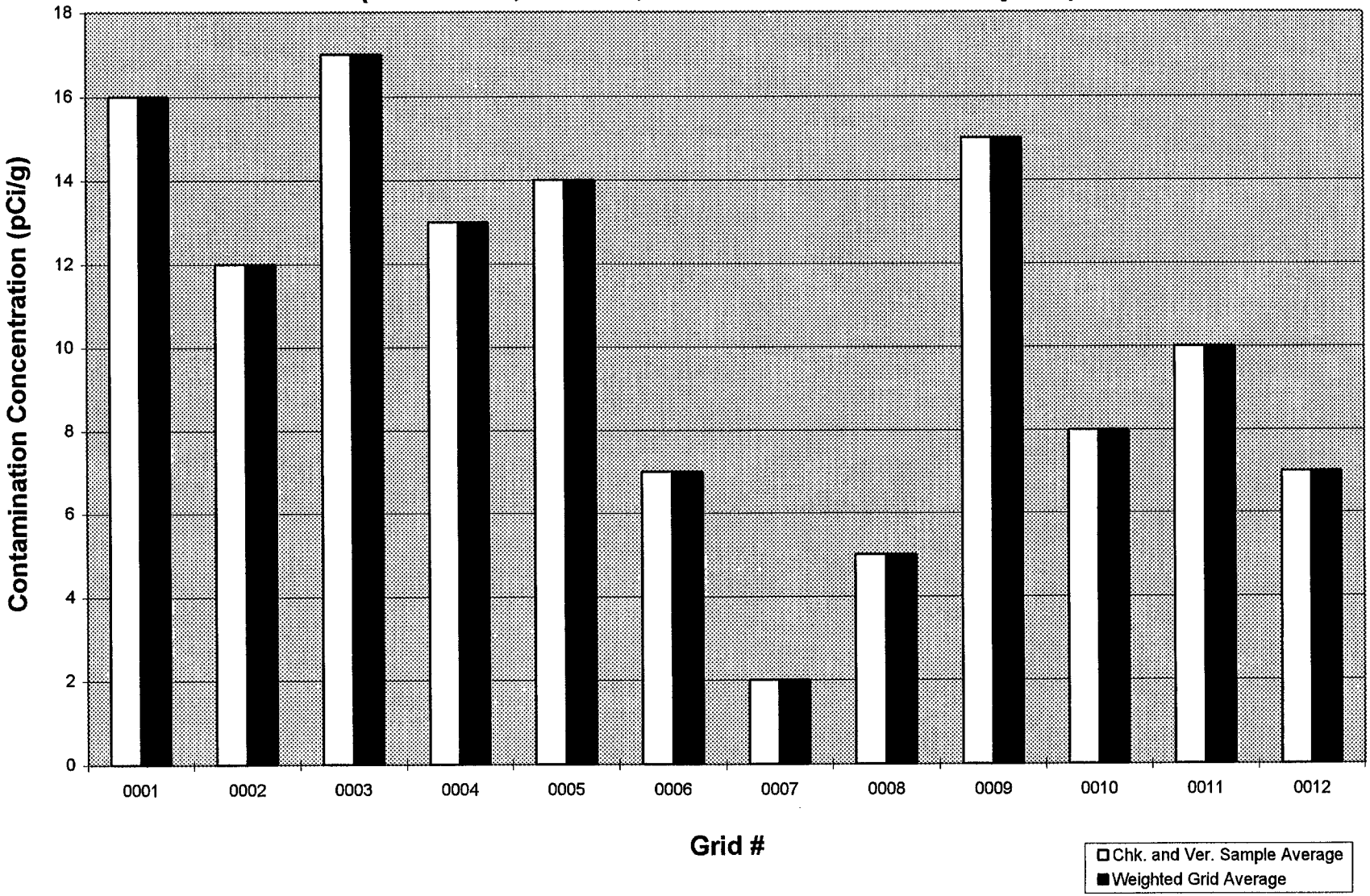
ME-017179

Concentrations Calculated as <1 pCi/g are reported and averaged as =1 pCi/g

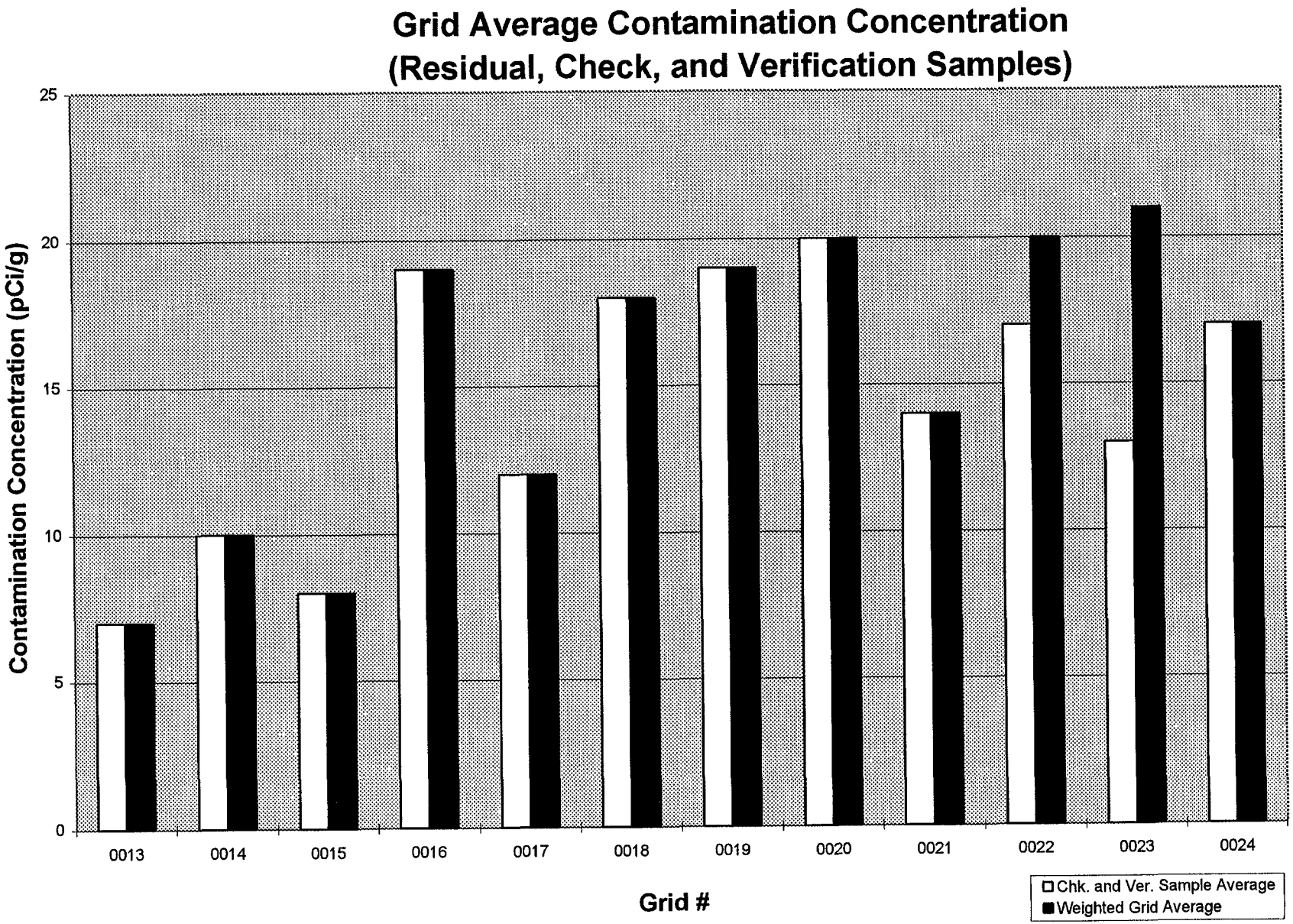
Concentrations are of Total Uranium (U-234 + U-235 + U-238)

ATTACHMENT 3
Texas Instruments Attleboro Facility
Grid Cell Average Concentration Bar Charts

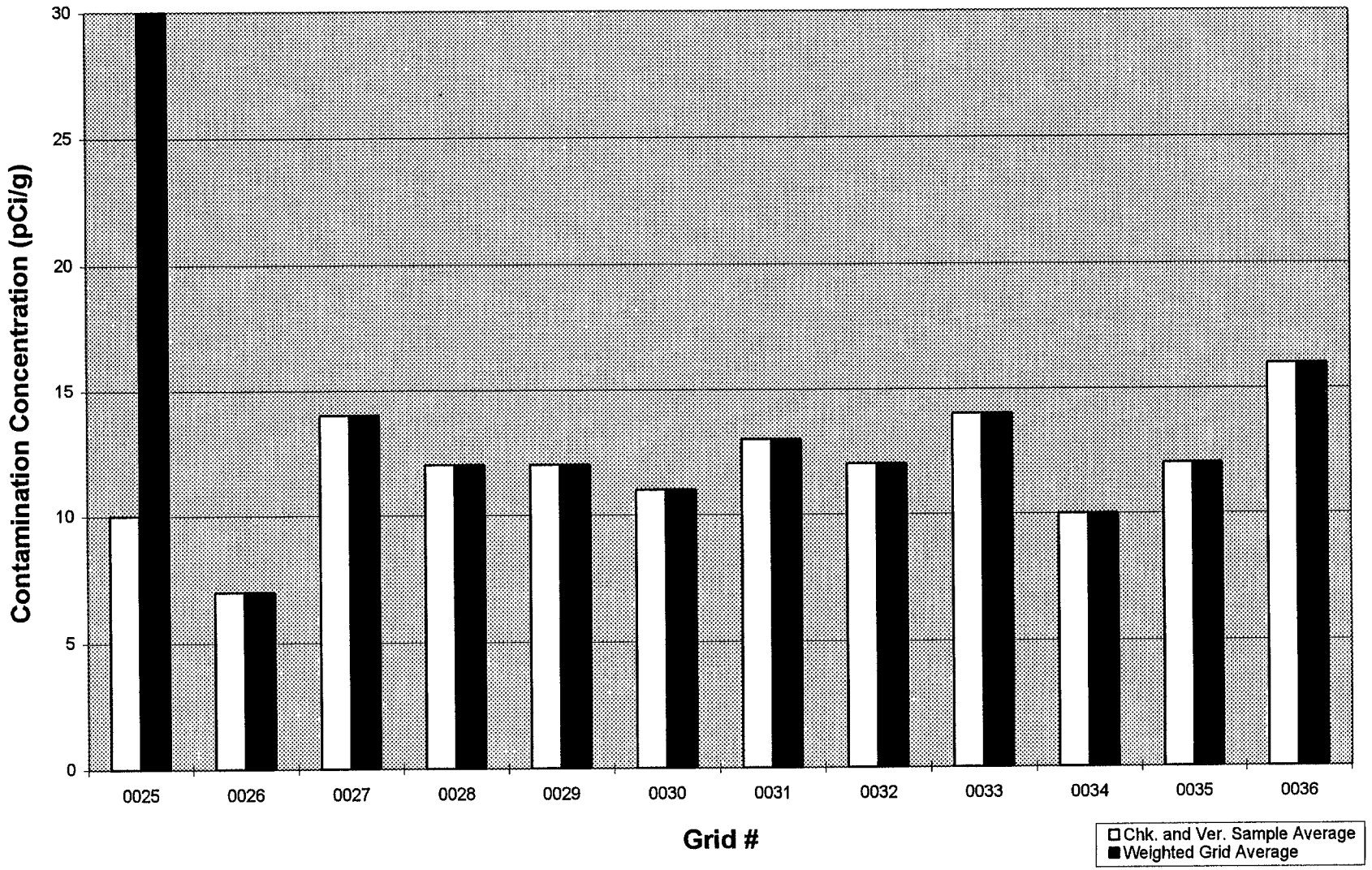
Grid Average Contamination Concentration (Residual, Check, and Verification Samples)



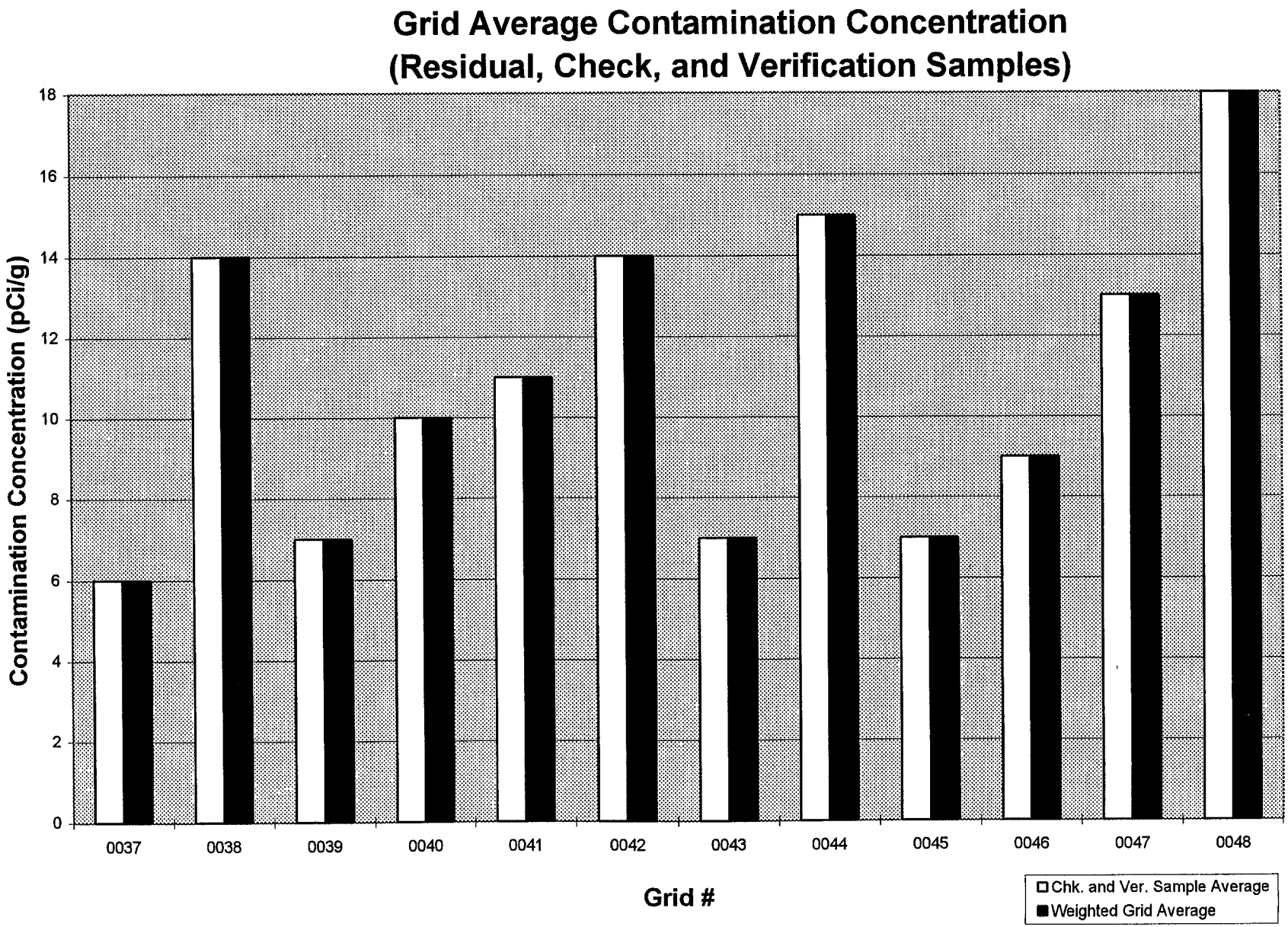
ME-017181


Grid Average Contamination Concentration
(Residual, Check, and Verification Samples)
Contamination Concentration (pCi/g)
25
20
15
10
5
0
0013
0014
0015
0016
0017
0018
0019
0020
0021
0022
0023
0024
Grid #
Chk. and Ver. Sample Average
Weighted Grid Average

Grid Average Contamination Concentration
(Residual, Check and Verification Samples)

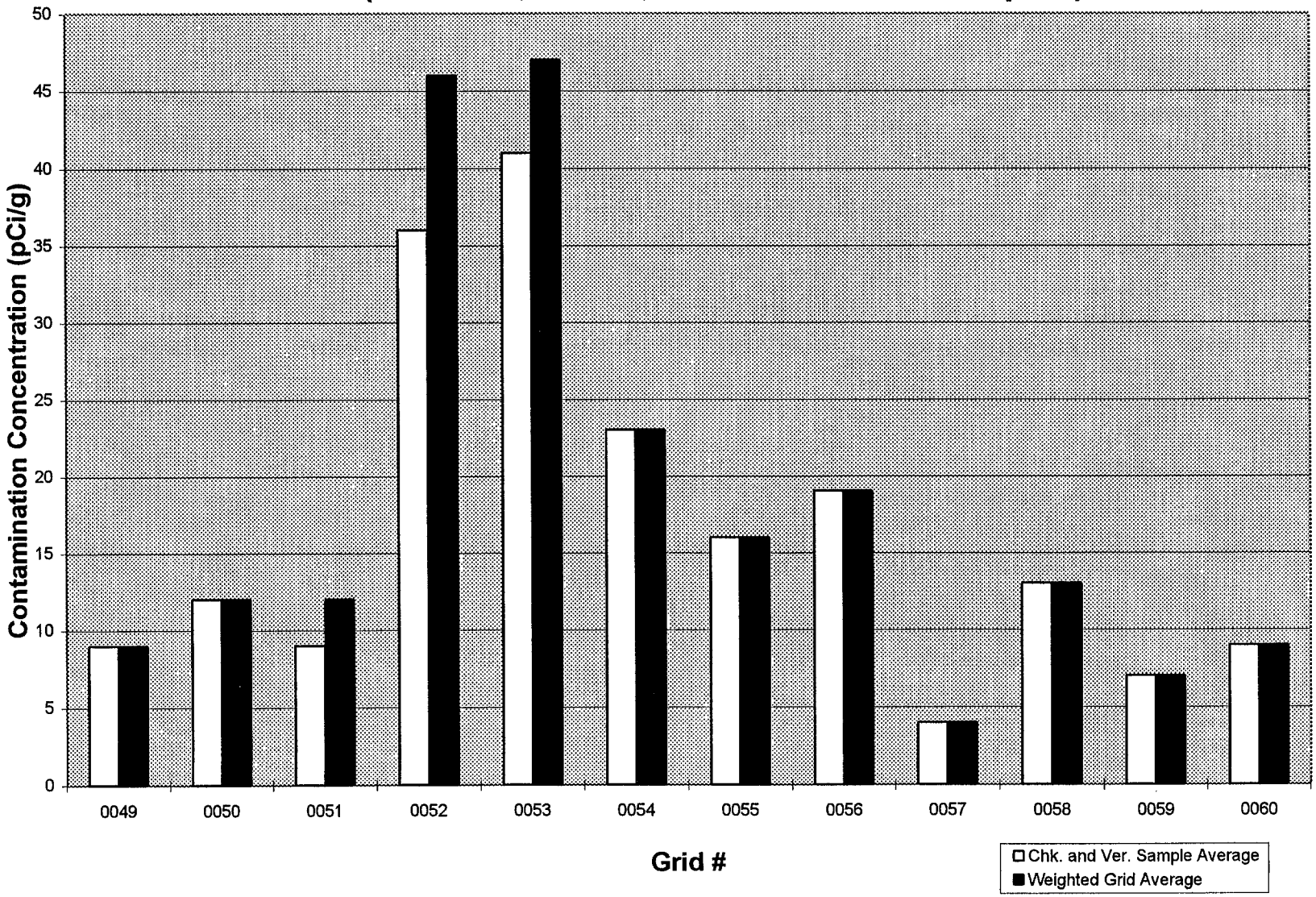


ME-017183


Grid Average Contamination Concentration
(Residual, Check, and Verification Samples)
Contamination Concentration (pCi/g)
18
16
14
12
10
8
6
4
2
0
0037
0038
0039
0040
0041
0042
0043
0044
0045
0046
0047
0048
Grid #
Chk. and Ver. Sample Average
Weighted Grid Average

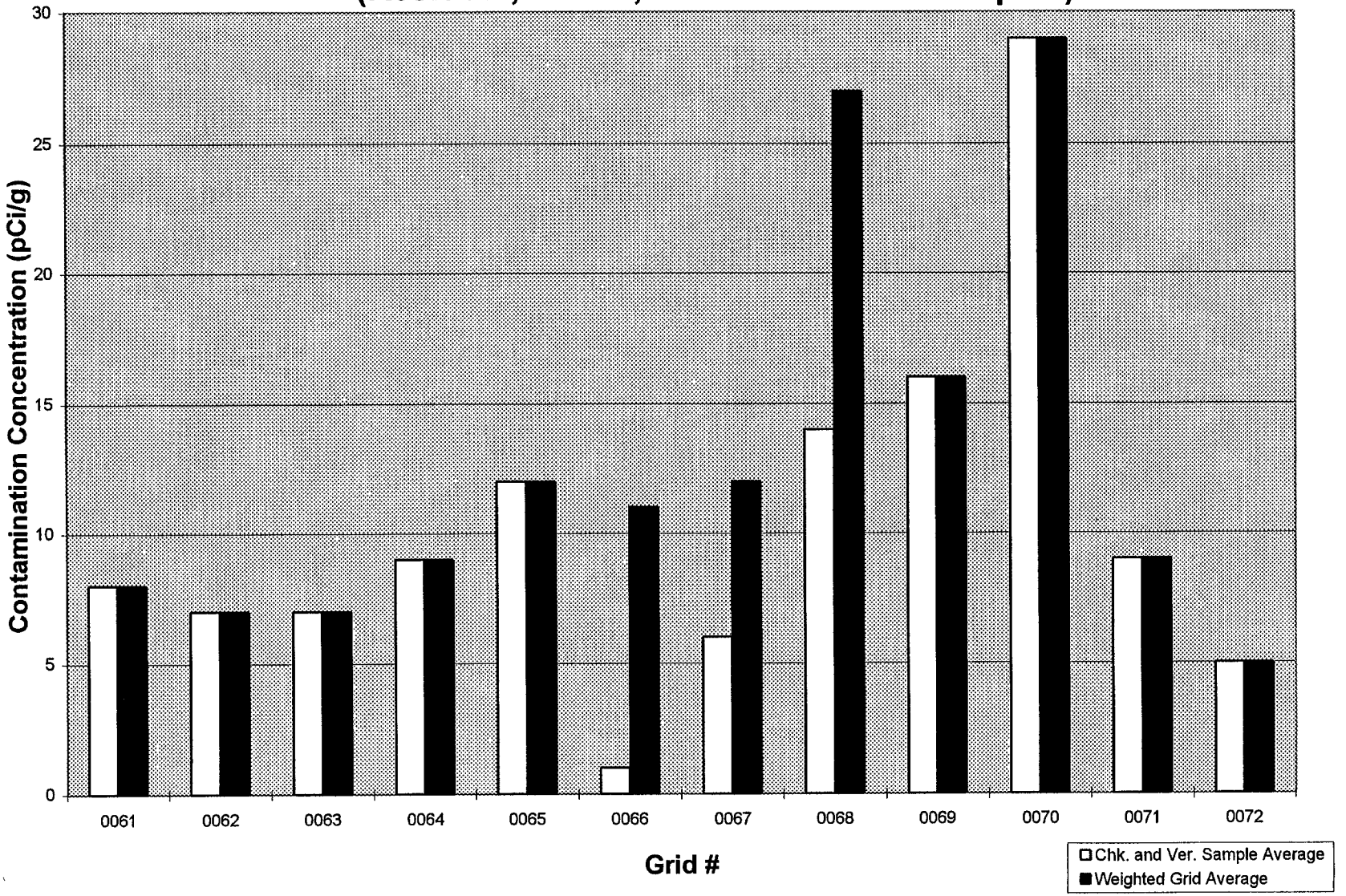
ME-017184

Grid Average Contamination Concentration (Residual, Check, and Verification Samples)



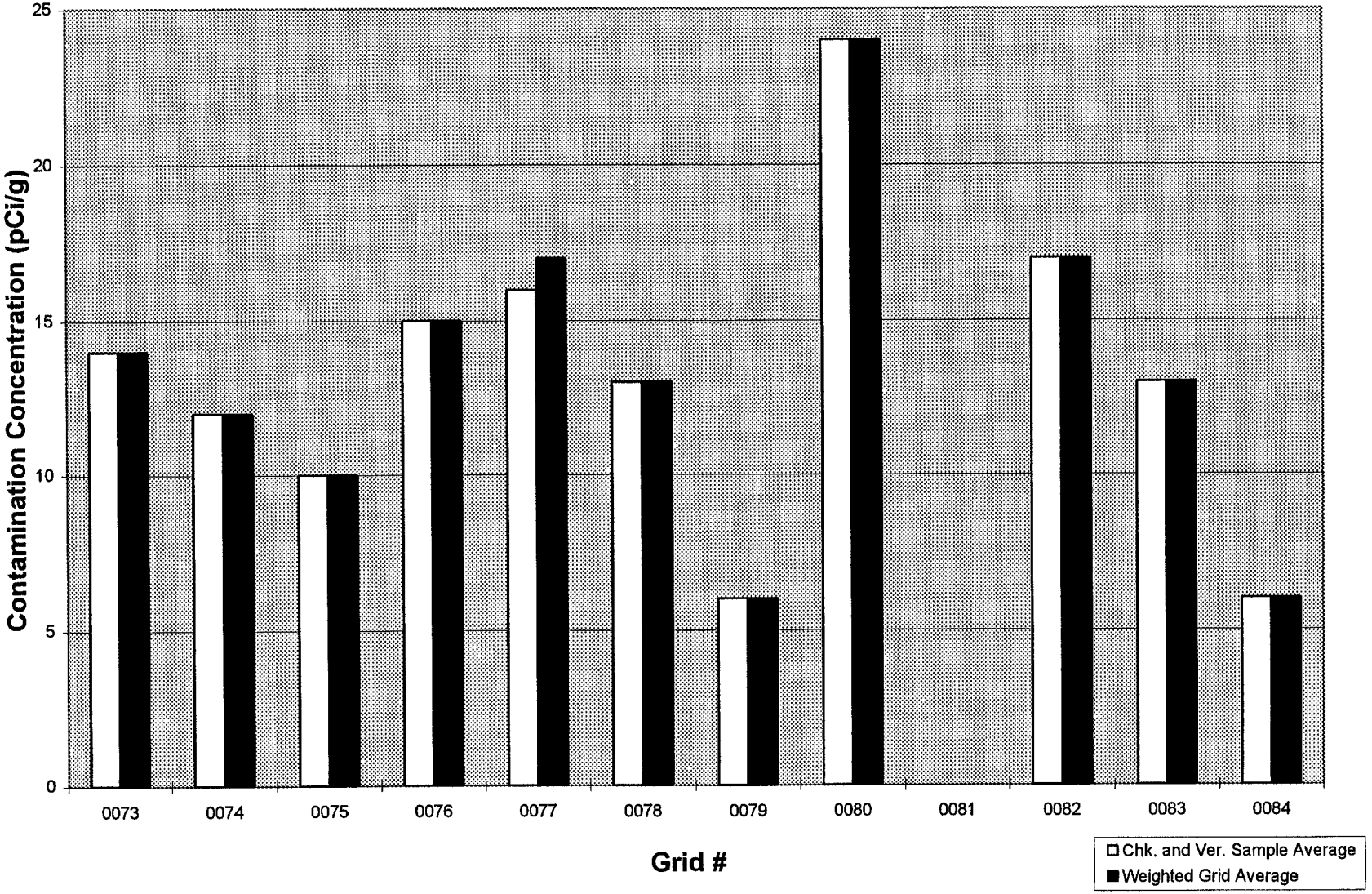
ME-017185

Grid Average Contamination Concentration (Residual, Check, and Verification Samples)



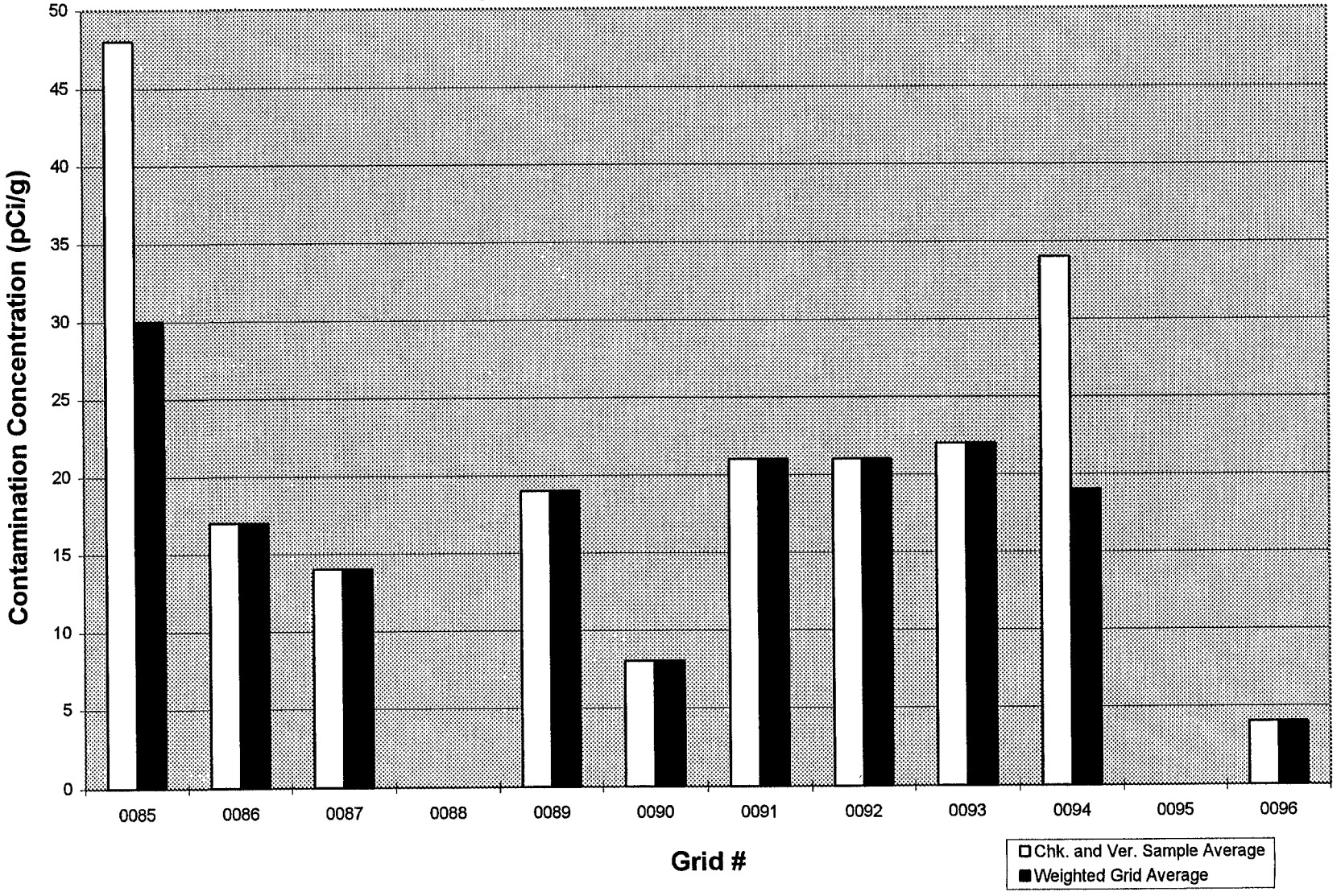
ME-017186

Grid Average Contamination Concentration
(Check and Verification Samples)



ME-017187

Grid Average Contamination Concentration
(Check and Verification Samples)



ME-017188

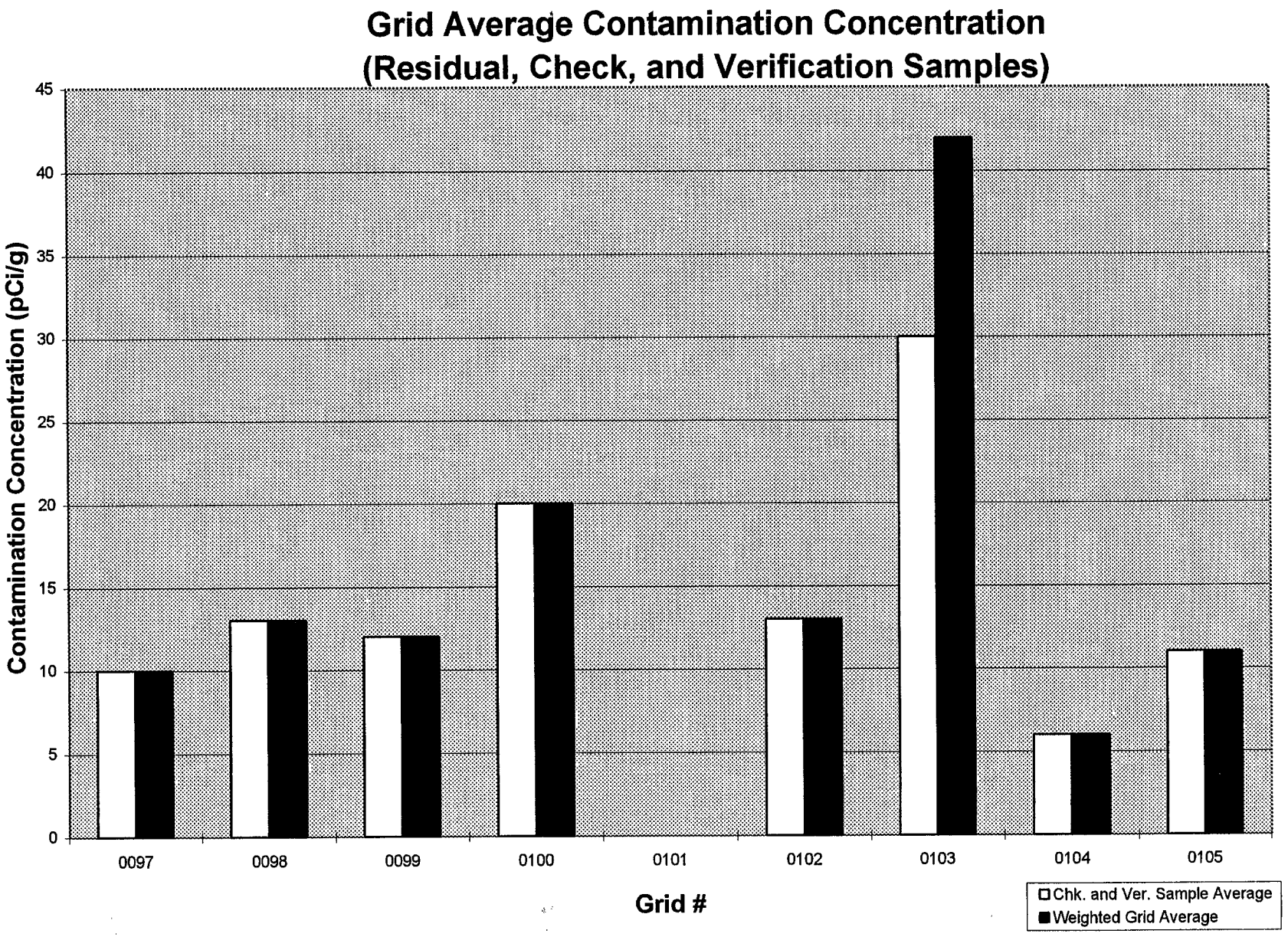
2.3. SITE CONDITIONS AT THE TIME OF FINAL SURVEY FOR REMEDIATION ACTIVITIES

As the result of characterization and classification surveys, 18 decontamination areas were defined throughout Buildings 4, 5, and 10. The locations of these areas are illustrated on Figures 2, 3, and 4. Decontamination operations were performed over 64 grids inside of Buildings 4, 5, and 10, and 23 grids on the roof of Building 10. For residual concrete slabs and roof sections left in place, all surface contamination levels are less than the surface contamination criteria of 15,000 disintegration per minute (dpm)/100 square centimeter (cm^2) (maximum) 5,000 dpm/100 cm^2 (total), and 1,000 dpm/100 cm^2 (removable). Permanent wall surfaces adjacent to affected areas were surveyed to a height of 1 meter (m) and, in all cases, did not exceed the surface contamination criteria.

Concrete slabs left in place also were subject to bulk sampling to demonstrate compliance with the 30 pCi/g total uranium bulk material cleanup criterion. Where underlying soils were excavated, four grids contained residual contamination exceeding the total uranium criterion. These exceptions were made when vital site utilities were impacting decontamination activities. Three excavated grids contained discrete sample points exceeding 30 pCi/g total uranium but, when averaged over the entire 10-by-10-m grid cell, did not exceed the release criteria.

2.4. RELEASE GUIDELINES

Section 3.3.1 of the *Supplement to the 1992 Remediation Plan* (December 1994) defines volumetric release criteria for bulk material and soils to be removed during the remediation of contaminated building interiors at the TI Attleboro Facility. These release criteria are 30 pCi/g for total uranium other than depleted (uranium-234, -235, and -238) and 35 pCi/g for depleted uranium. The acceptable exposure rate at 1 meter above the surface as prescribed by the NRC is 10 microroentgen per hour (mR/hr) above background. In addition to the volumetric contamination criteria, surface contamination levels on personnel, equipment, and materials leaving radiological controlled areas (RCAs) must not exceed the surface contamination limits specified in *Regulatory Guide 1.86, Termination of Operating License for Nuclear Reactors,* Table I, and Appendix E of the *Supplement to the 1992 Remediation Plan.* These surface contamination limits are 1,000 dpm/100 cm^2 (removable), 5,000 dpm/100 cm^2 (total), and 15,000 dpm/100 cm^2 (maximum) and also are applied to all residual surfaces in affected areas following decontamination. The *Building Interiors Remediation Project Plan* incorporated policies and procedures to guide remediation activities so that the release criteria specified in the aforementioned references were achieved.

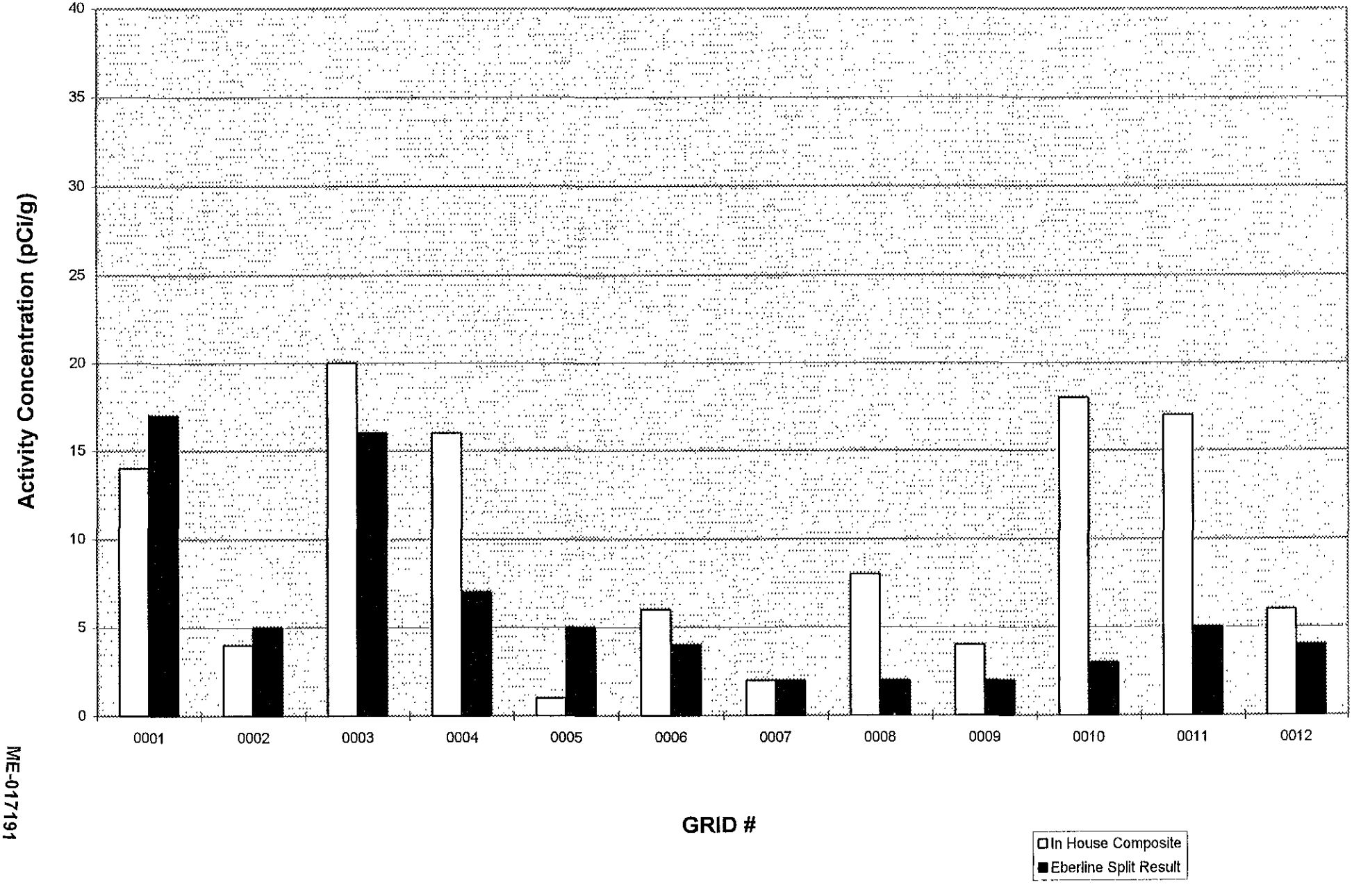

Grid Average Contamination Concentration
(Residual, Check, and Verification Samples)
Contamination Concentration (pCi/g)
45
40
35
30
25
20
15
10
5
0
0097
0098
0099
0100
0101
0102
0103
0104
0105
Grid #
Chk. and Ver. Sample Average
Weighted Grid Average

ME-017189

ATTACHMENT 4
Texas Instruments Attleboro Facility
Quality Assurance Bar Charts

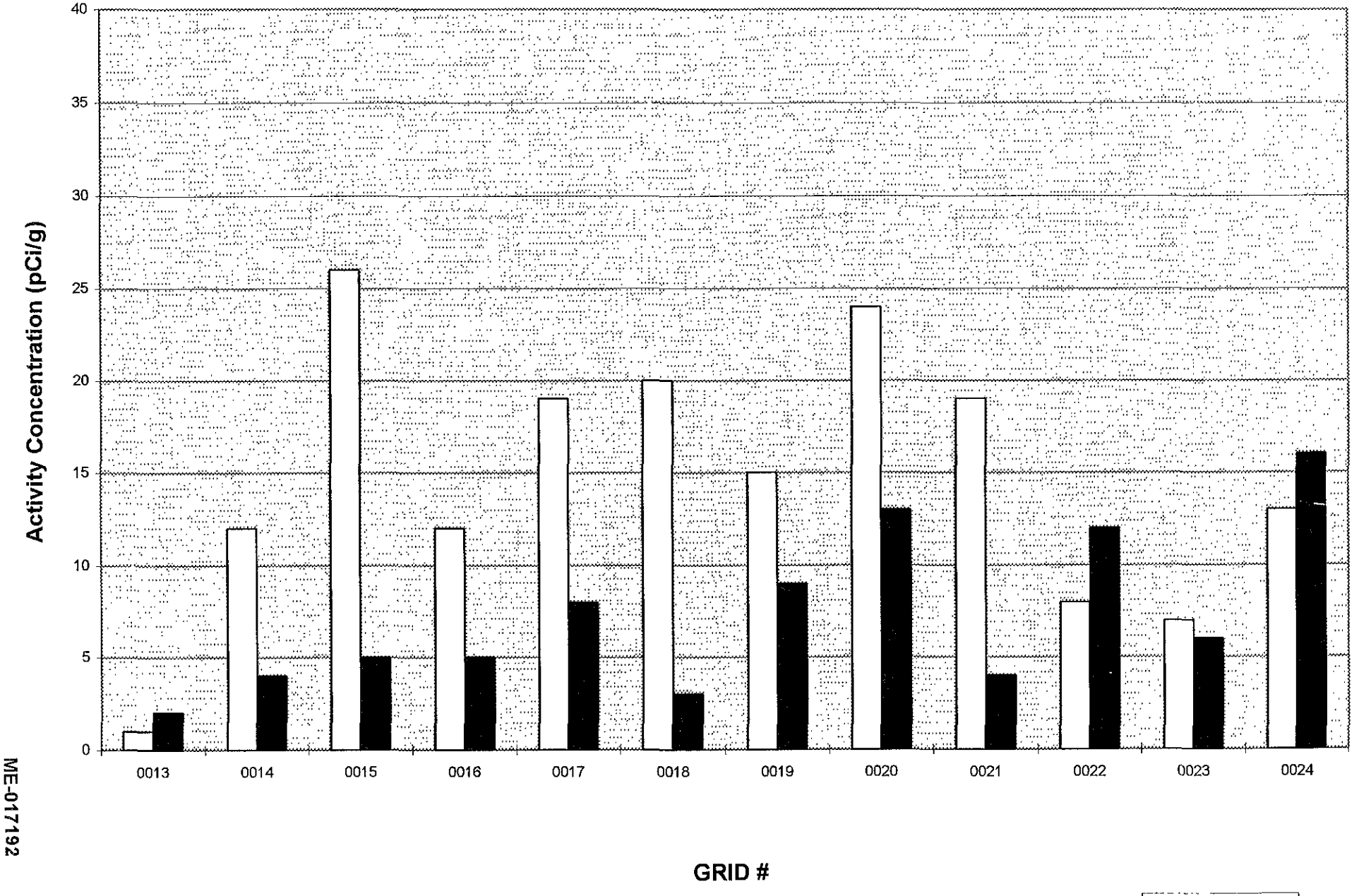
ME-017190

Texas Instruments, Attleboro
Exteriors Radiological Sampling



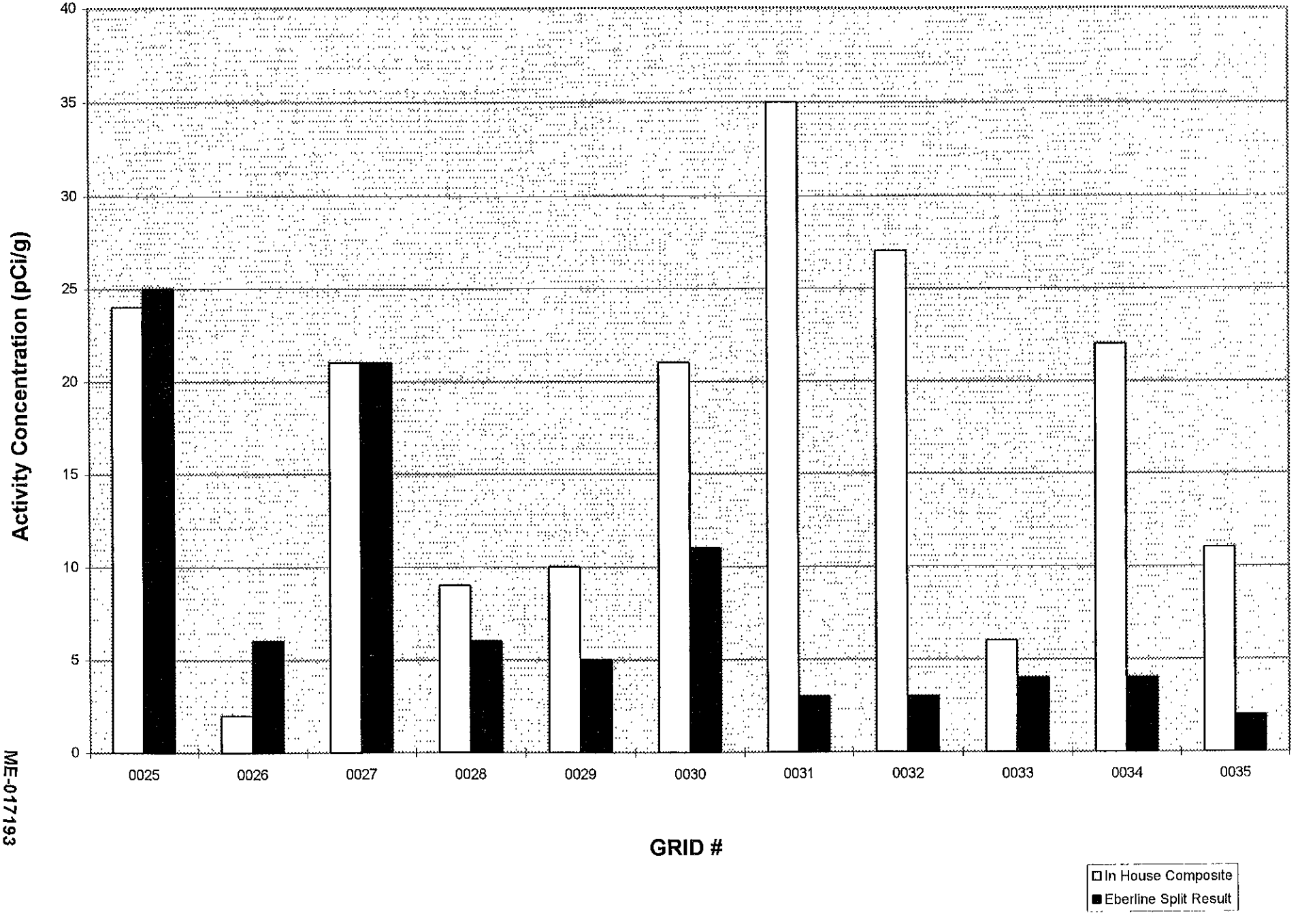
ME-01791

Texas Instruments, Attleboro
Exteriors Radiological Sampling



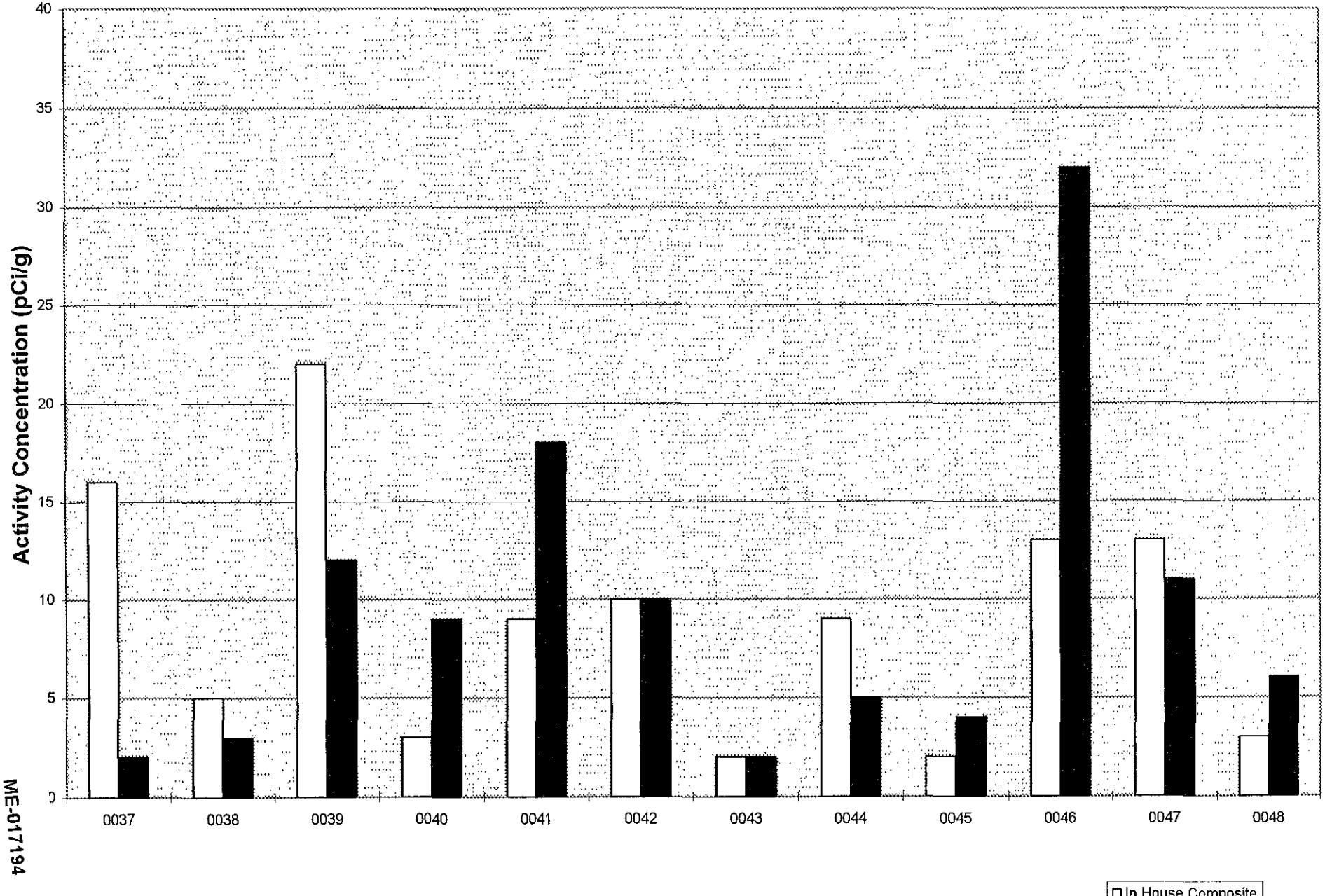
ME-017192

Texas Instruments, Attleboro
Exteriors Radiological Sampling



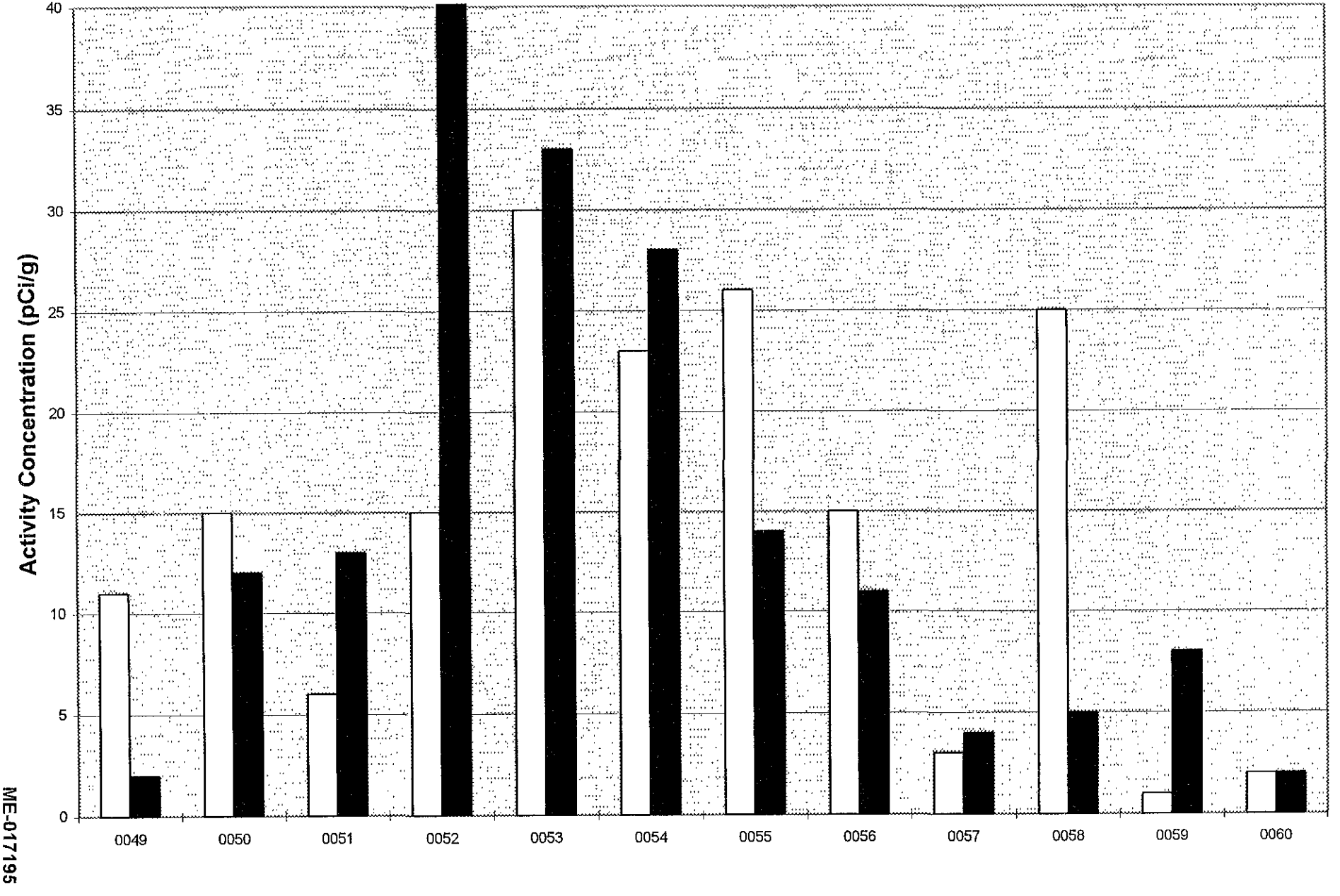
ME-017193

Texas Instruments, Attleboro
Exteriors Radiological Sampling



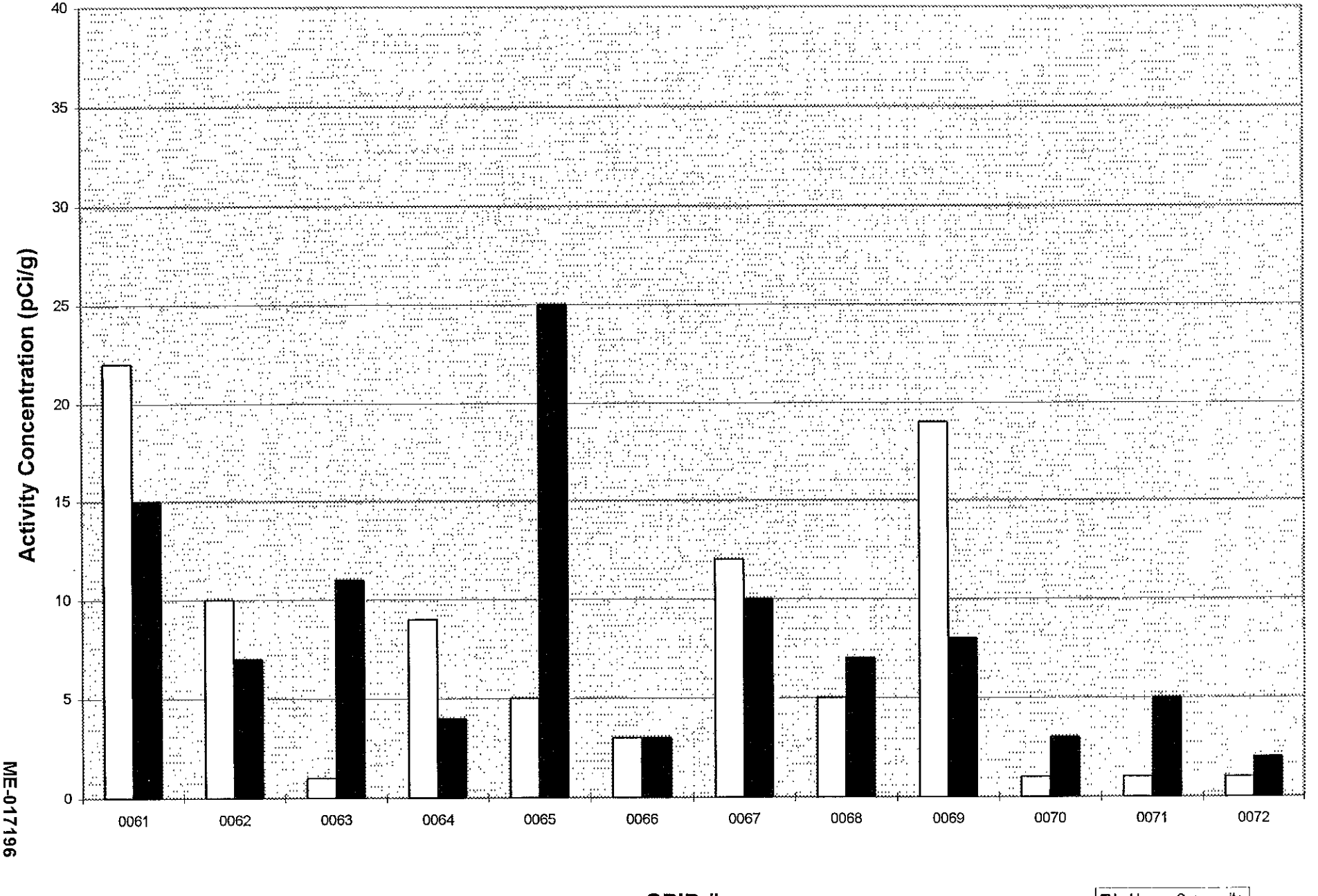
ME-017194

Texas Instruments, Attleboro
Exteriors Radiological Sampling



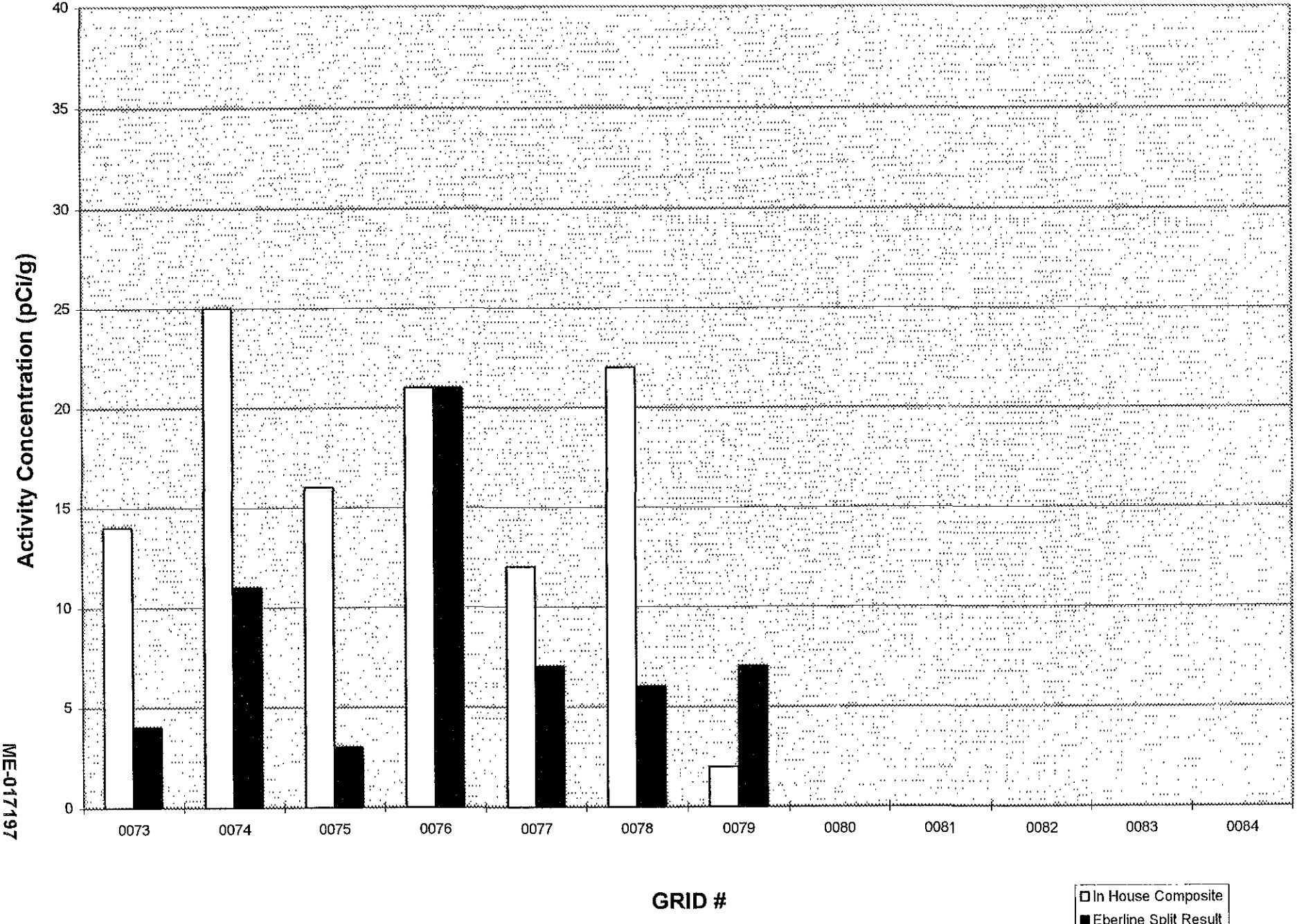
ME-017195

Texas Instruments, Attleboro
Exteriors Radiological Sampling



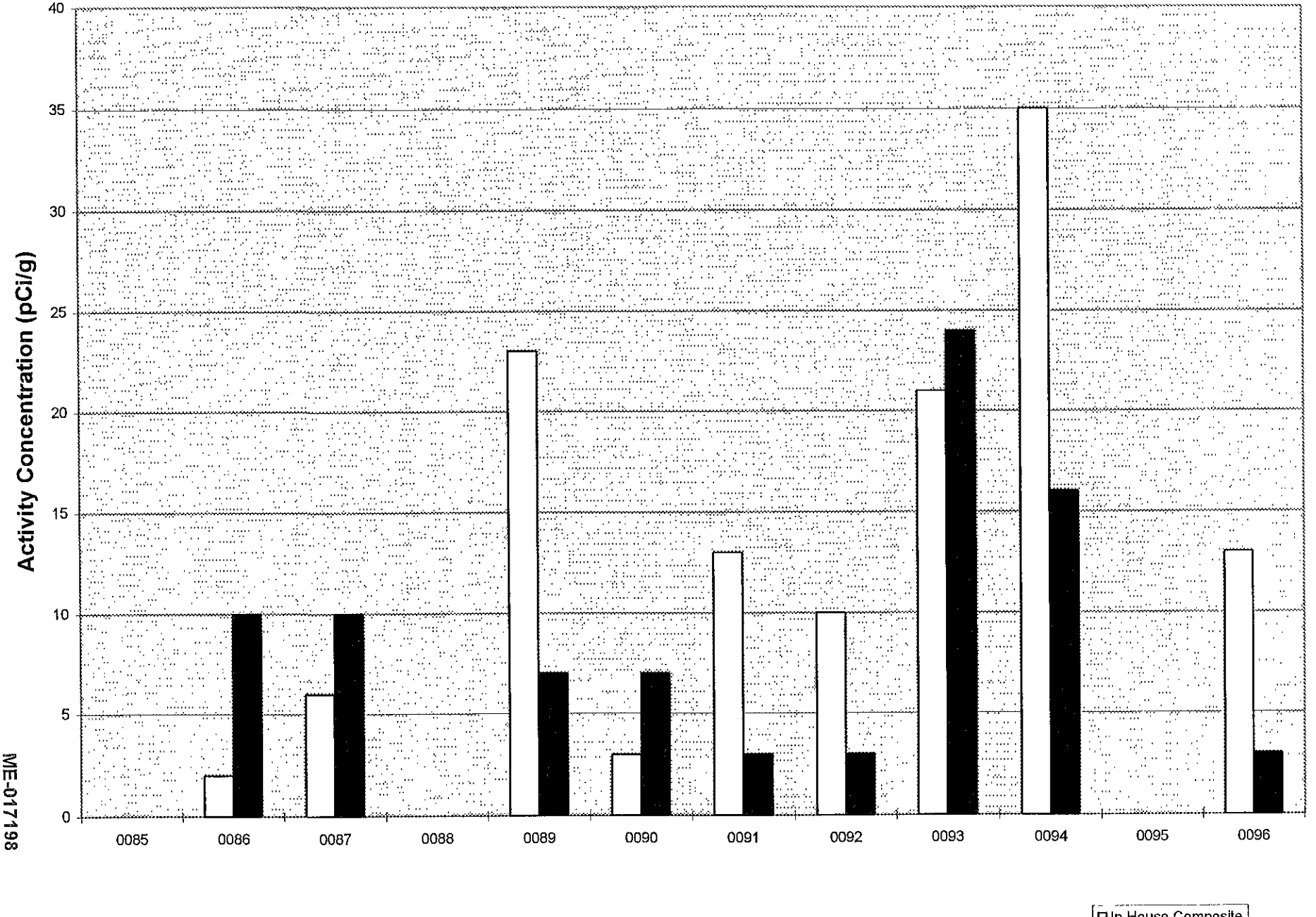
ME-017196

Texas Instruments, Attleboro
Exteriors Radiological Sampling



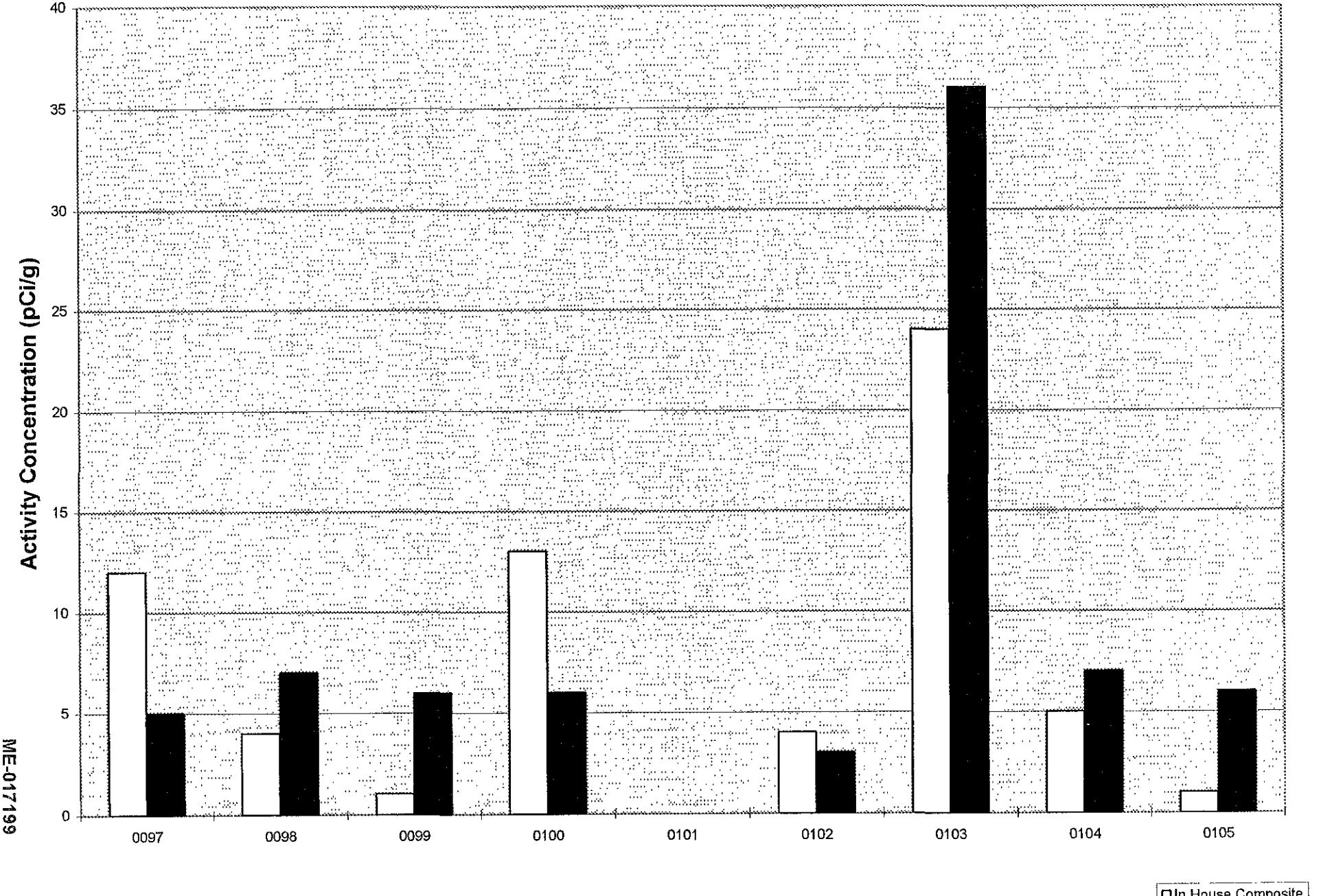
ME-017197

Texas Instruments, Attleboro
Exteriors Radiological Sampling



ME-017198

Texas Instruments, Attleboro
Exteriors Radiological Sampling



ME-017199

ATTACHMENT 5
Texas Instruments Attleboro Facility
Grid Cell Final Gamma Survey Data

POST REMEDIATION GAMMA SURVEY
BUILDING 11- RAIL SPUR /STOCKADE AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
40S X 100E	3600	200	13	12	4	3
30S X 100E	3800	400	12	12	3	3
20S X 100E	3800	400	12	12	3	3
20S X 90E	4000	600	11	11	2	2
30S X 90E	3600	200	12	12	3	3
40S X 90E	3700	300	13	12	4	3
50S X 90E	3900	500	13	13	4	4
60S X 90E	3750	350	13	12	4	3
70S X 90E	3800	400	12	12	3	3
80S X 90E	4000	600	11	11	2	2
90S X 90E	3950	550	11	10	2	1
90S X 80E	4800	1400	15	14	6	5
80S X 80E	4700	1300	15	15	6	6

ME-017201

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 11- RAIL SPUR /STOCKADE AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
70S X 80E	5000	1600	15	15	6	6
60S X 80E	4800	1400	15	15	6	6
50S X 80E	4800	1400	15	15	6	6
40S X 70E	4900	1500	15	14	6	5
30S X 80E	3700	300	13	12	4	3
20S X 80E	3600	200	12	12	3	3
20S X 70E	3700	300	13	12	4	3
30S X 70E	3500	100	13	13	4	4
40S X 70E	4800	1400	15	14	6	5
50S X 70E	4900	1500	15	15	6	6
60S X 70E	5000	1600	14	14	5	5
70S X 70E	4900	1500	15	15	6	6
80S X 70E	4900	1500	15	15	6	6

ME-017202

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 11- RAIL SPUR /STOCKADE AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
90S X 70E	4900	1500	15	14	6	5
90S X 60E	4800	1400	15	15	6	6
80S X 60E	4700	1300	15	15	6	6
70S X 60E	5000	1600	15	14	6	5
60S X 60E	4800	1400	15	14	6	5
50S X 60E	4900	1500	15	14	6	5
40S X 60E	5000	1600	15	15	6	6
30S X 60E	3800	400	13	12	4	3
20S X 60E	3700	300	12	12	3	3
20S X 50E	3800	400	12	12	3	3
30S X 50E	3800	400	13	13	4	4
40S X 50E	4800	1400	15	15	6	6
50S X 50E	4700	1300	15	14	6	5

ME-017203

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 11- RAIL SPUR /STOCKADE AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
60S X 50E	4900	1500	15	14	6	5
70S X 50E	5000	1600	15	15	6	6
80S X 50E	4900	1500	15	14	6	5
90S X 50E	4800	1400	15	14	6	5
90S X 40E	3800	400	13	13	4	4
80S X 40E	3700	300	12	12	3	3
70S X 40E	3700	300	13	12	4	3
60S X 40E	3900	500	12	11	3	2
50S X 40E	3900	500	12	11	3	2
40S X 40E	3700	300	13	13	4	4
30S X 40E	3800	400	13	12	4	3
20S X 40E	3600	200	12	12	3	3
20S X 30E	3600	200	11	11	2	2

ME-017204

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 11- RAIL SPUR /STOCKADE AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
30S X 30E	3800	400	10	10	1	1
40S X 30E	3900	500	10	10	1	1
50S X 30E	4000	600	13	12	4	3
60S X 30E	4000	600	12	11	3	2
70S X 30E	3800	400	12	11	3	2
80S X 30E	3900	500	11	11	2	2
90S X 30E	3700	300	12	12	3	3
90S X 20E	3650	250	13	13	4	4
80S X 20E	3500	100	13	13	4	4
70S X 20E	3900	500	13	12	4	3
60S X 20E	3900	500	12	12	3	3
50S X 20E	3700	300	11	11	2	2
40S X 20E	3800	400	13	13	4	4

ME-017205

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 11- RAIL SPUR /STOCKADE AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
30S X 20E	3900	500	13	13	4	4
20S X 20E	4000	600	13	12	4	3
20S X 10E	3800	400	12	12	3	3
30S X 10E	3800	400	12	12	3	3
40S X 10E	4000	600	12	12	3	3
50S X 10E	3900	500	11	10	2	1
20S X 130E	3400	0	10	9	1	0
30S X 130E	3700	300	10	10	1	1
40S X 130E	3600	200	10	10	1	1
50S X 130E	3600	200	11	10	2	1
60S X 130E	3600	200	10	9	1	0
60S X 140E	3500	100	9	9	0	0
50S X 140E	3400	0	10	10	1	1

Should Ø; the negative number be reported more?

* NET = GROSS - BACKGROUND

ME-017206

POST REMEDIATION GAMMA SURVEY
BUILDING 11- RAIL SPUR /STOCKADE AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
40S X 140E	3400	0	10	9	1	0
30S X 140E	3600	200	10	10	1	1
20S X 140E	3500	100	10	9	1	0
20S X 150E	3400	0	10	10	1	1
30S X 150E	3400	0	10	10	1	1
40S X 150E	3400	0	10	9	1	0
50S X 150E	3500	100	11	10	2	1
60S X 150E	3500	100	10	10	1	1
60S X 160E	3600	200	10	10	1	1
50S X 160E	3400	0	10	10	1	1
40S X 160E	3700	300	9	9	0	0
30S X 160E	3500	100	10	9	1	0
20S X 160E	3500	100	10	10	1	1

ME-017207

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 11- RAIL SPUR /STOCKADE AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
40S X 170E	3400	0	10	9	1	0
50S X 170E	3600	200	10	9	1	0
60S X 170E	3600	200	10	10	1	1

ME-017208

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 12-SOUTH LAWN/WEST LAWN AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
120N X 110E	3300	-100	13	12	4	3
120N X 120E	3400	0	12	11	3	2
120N X 130E	3400	0	12	12	3	3
120N X 140E	3600	200	13	13	4	4
120N X 150E	3400	0	12	12	3	3
120N X 160E	3500	100	12	11	3	2
120N X 170E	3600	200	12	11	3	2
130N X 140E	3300	-100	13	13	4	4
130N X 130E	3500	100	13	12	4	3
130N X 120E	3600	200	12	11	3	2
150N X 140E	3400	0	13	12	4	3
150N X 150E	3600	200	12	12	3	3
160N X 140E	3700	300	13	11	4	2

Negative?

* NET = GROSS - BACKGROUND

ME-017209

POST REMEDIATION GAMMA SURVEY
BUILDING 12-SOUTH LAWN/WEST LAWN AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
160N X 150E	3800	400	11	11	2	2
170N X 140E	3600	200	13	12	4	3
170N X 150E	3600	200	12	12	3	3
200N X 130E	3500	100	12	12	3	3
200N X 140E	3700	300	12	11	3	2
210N X 140E	3700	300	12	11	3	2
210N X 130E	3800	400	12	11	3	2
200N X 150E	3400	0	12	12	3	3
190N X 150E	3500	100	12	12	3	3
190N X 160E	3500	100	11	11	2	2
200N X 160E	3600	200	13	12	4	3
190N X 170E	3700	300	12	11	3	2
180N X 170E	4000	600	13	13	4	4

ME-017210

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 12-SOUTH LAWN/WEST LAWN AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
180N X 160E	3800	400	12	12	3	3
110N X 190E	3600	200	12	11	3	2
110N X 180E	3400	0	12	12	3	3
110N X 170E	3500	100	13	12	4	3
110N X 160E	3700	300	12	11	3	2
110N X 150E	3900	500	13	12	4	3
110N X 140E	3800	400	12	12	3	3
110N X 130E	3800	400	12	11	3	2
110N X 120E	3600	200	13	13	4	4
100N X 120E	3700	300	11	11	2	2
100N X 130E	4000	600	12	11	3	2
100N X 140E	3900	500	12	11	3	2
100N X 150E	3700	300	12	12	3	3

ME-017211

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 12-SOUTH LAWN/WEST LAWN AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
100N X 160E	3800	400	12	11	3	2
100N X 170E	3900	500	12	12	3	3
100N X 180E	3500	100	13	12	4	3
100N X 190E	3500	100	12	11	3	2
100N X 200E	3600	200	12	12	3	3
90N X 200E	3800	400	12	11	3	2
90N X 190E	3900	500	12	12	3	3
90N X 180E	3800	400	13	12	4	3
90N X 170E	3500	100	12	12	3	3
90N X 160E	3700	300	12	12	3	3
90N X 150E	3600	200	12	12	3	3
90N X 140E	3800	400	13	13	4	4
90N X 130E	3600	200	12	11	3	2

ME-017212

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 12-SOUTH LAWN/WEST LAWN AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
80N X 130E	3600	200	12	12	3	3
80N X 140E	3700	300	12	12	3	3
80N X 150E	3400	0	13	12	4	3
80N X 160E	3500	100	13	13	4	4
80N X 170E	3500	100	12	11	3	2
80N X 180E	3800	400	13	12	4	3
70N X 180E	3700	300	12	11	3	2
70N X 170E	3700	300	11	11	2	2
70N X 160E	3850	450	11	11	2	2
70N X 150E	3500	100	13	12	4	3
70N X 140E	3600	200	12	12	3	3
70N X 130E	3700	300	13	13	4	4
120N X 290E	3800	400	13	13	4	4

ME-017213

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 12-SOUTH LAWN/WEST LAWN AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
120N X 280E	3600	200	12	12	3	3
120N X 270E	3500	100	13	12	4	3
120N X 260E	3600	200	12	11	3	2
120N X 250E	3700	300	11	11	2	2
120N X 240E	3800	400	12	11	3	2
120N X 230E	3500	100	12	11	3	2
120N X 220E	3300	-100	12	11	3	2
120N X 210E	3600	200	13	12	4	3
120N X 200E	4000	600	14	13	5	4
110N X 200E	3800	400	13	13	4	4
120N X 210E	3900	500	13	13	4	4
110N X 220E	3800	400	13	12	4	3
110N X 230E	3400	0	13	13	4	4

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 12-SOUTH LAWN/WEST LAWN AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
110N X 240E	3600	200	12	12	3	3
110N X 250E	3600	200	12	12	3	3
110N X 260E	3500	100	12	11	3	2
110N X 270E	3900	500	12	12	3	3
110N X 280E	4000	600	13	12	4	3
110N X 290E	3700	300	12	12	3	3
100N X 280E	3600	200	12	12	3	3
100N X 270E	3700	300	13	12	4	3
100N X 260E	3400	0	12	11	3	2
100N X 250E	3600	200	12	12	3	3
100N X 240E	3800	400	12	12	3	3
100N X 230E	3700	300	12	11	3	2
100N X 220E	3600	200	11	11	2	2

ME-017215

* NET = GROSS - BACKGROUND

POST REMEDIATION GAMMA SURVEY
BUILDING 12-SOUTH LAWN/WEST LAWN AREA

CORNER GRID COORDINATES	GROSS GAMMA COUNT RATE (cpm)	* NET GAMMA COUNT RATE (cpm)	GROSS GAMMA EXPOSURE RATE (uR/hr)		* NET GAMMA EXPOSURE RATE (uR/hr)	
	SURFACE	SURFACE	SURFACE	1 METER	SURFACE	1 METER
100N X 210E	3500	100	12	11	3	2
100N X 200E	3650	250	12	10	3	1
130N X 220E	3900	500	12	11	3	2
130N X 210E	3500	100	11	11	2	2

ME-017216

* NET = GROSS - BACKGROUND

ATTACHMENT 6
Texas Instruments Attleboro Facility
Grid Cell Soil Concentration Survey Summary

TEXAS INSTRUMENTS INCORPORATED
ATTLEBORO, MA. FACILITY

POST REMEDIATION FINAL SOIL CONCENTRATION SURVEY RESULTS

GENERAL SITE LOCATION	GRID#	COORDINATES (NW CORNER)	AVERAGE GRID CONCENTRATION BEFORE REMEDIATION (pCi/g) (*)	AVERAGE SAMPLE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	WEIGHTED GRID AVERAGE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	AVERAGE DEPTH OF EXCAVATION (ft.)	MEETS REMEDIATION CRITERIA (Y=YES, N=NO)
BUILDING 12 WEST LAWN	0001	200N150E	32	16	16	6.5	Y
	0002	190N160E	35	12	12	2.8	Y
	0003	210N130E	35	17	17	4	Y
	0004	170N140E	37	13	13	9	Y
	0005	160N140E	115	14	14	9.5	Y
BUILDING 12 SOUTH LAWN	0006	120N120E	34	7	7	6	Y
	0007	120N130E	64	2	2	6	Y
	0008	110N130E	57	5	5	4	Y
	0009	110N140E	40	15	15	4.5	Y
	0010	110N150E	51	8	8	4.5	Y
	0011	110N160E	48	10	10	5.7	Y
	0012	110N170E	38	7	7	7.2	Y
	0013	100N130E	82	7	7	5.5	Y
	0014	100N140E	149	10	10	7	Y
	0015	100N150E	123	8	8	7	Y
	0016	120N280E	30	19	19	6.5	Y
	0017	120N270E	34	12	12	7	Y
	0018	120N260E	30	18	18	5.5	Y
	0019	110N270E	69	19	19	5.5	Y
	0020	110N260E	50	20	20	5.5	Y

ME-017218

CONCENTRATIONS (pCi/g) = TOTAL URANIUM

(*) 1994 CHARACTERIZATION DATA

TEXAS INSTRUMENTS INCORPORATED
ATTLEBORO, MA. FACILITY

POST REMEDIATION FINAL SOIL CONCENTRATION SURVEY RESULTS

GENERAL SITE LOCATION	GRID#	COORDINATES (NW CORNER)	AVERAGE GRID CONCENTRATION BEFORE REMEDIATION (pCi/g) (*)	AVERAGE SAMPLE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	WEIGHTED GRID AVERAGE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	AVERAGE DEPTH OF EXCAVATION (ft.)	MEETS REMEDIATION CRITERIA (Y=YES, N=NO)
BUILDING 12	0021	110N250E	39	14	14	4.3	Y
SOUTH LAWN	0022	120N210E	91	17	20	11	Y
	0023	130N210E	40	13	21	10.5	Y
	0024	110N210E	78	17	17	7.5	Y
	0025	120N200E	95	10	30	7.5	Y
	0026	110N200E	54	7	7	6.5	Y
	0027	110N220E	30	14	14	4.5	Y
	0028	100N190E	43	12	12	4	Y
	0029	90N140E	53	12	12	5.5	Y
	0030	90N150E	40	11	11	6	Y
	0031	90N160E	43	13	13	7	Y
	0032	100N160E	113	12	12	6.5	Y
	0033	90N170E	40	14	14	5.5	Y
	0034	100N170E	130	10	10	6.5	Y
	0035	90N130E	43	12	12	5.5	Y
	0036	80N140E	73	16	16	Wall exposed (10.5)	Y
	0037	80N150E	61	6	6	10.5	Y
	0038	80N160E	70	14	14	10.5	Y
	0078	130N120E	<30	13	13	5.5	Y
	0079	130N130E	<30	6	6	5	Y

ME-017219

CONCENTRATIONS (pCi/g) = TOTAL URANIUM

(*) 1994 CHARACTERIZATION DATA

TEXAS INSTRUMENTS INCORPORATED
ATTLEBORO, MA. FACILITY

POST REMEDIATION FINAL SOIL CONCENTRATION SURVEY RESULTS

GENERAL SITE LOCATION	GRID#	COORDINATES (NW CORNER)	AVERAGE GRID CONCENTRATION BEFORE REMEDIATION (pCi/g) (*)	AVERAGE SAMPLE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	WEIGHTED GRID AVERAGE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	AVERAGE DEPTH OF EXCAVATION (ft.)	MEETS REMEDIATION CRITERIA (Y=YES, N=NO)
BUILDING 12	0081	70N140E	<30	-	-	Wall exposed (10.5)	Y
SOUTH LAWN	0082	70N150E	16	17	17	Wall exposed (10.5)	Y
	0083	70N160E	12	13	13	Wall exposed (10.5)	Y
	0084	80N170E	25	6	6	Wall exposed (7.5)	Y
BUILDING 11	0039	80S70E	132	7	7	5	Y
STOCKADE	0040	70S70E	73	10	10	3.5	Y
	0041	60S70E	471	11	11	6	Y
	0042	70S60E	42	14	14	2	Y
	0043	60S60E	105	7	7	8	Y
	0044	50S60E	239	15	15	3	Y
	0045	50S70E	168	7	7	5.5	Y
	0046	40S70E	287	9	9	7.5	Y
	0047	40S60E	179	13	13	3	Y
	0048	50S80E	35	18	18	3.5	Y
	0049	40S80E	55	9	9	4.5	Y
	0050	30S70E	50	12	12	3.5	Y
	0051	30S80E	50	9	12	6.3	Y
	0052	30S90E	33	36	46	5.5	N
	0053	20S90E	49	41	47	8	N
	0054	20S80E	421	23	23	11.5	Y

ME-017220

CONCENTRATIONS (pCi/g) = TOTAL URANIUM

(*) 1994 CHARACTERIZATION DATA

TEXAS INSTRUMENTS INCORPORATED
ATTLEBORO, MA. FACILITY

POST REMEDIATION FINAL SOIL CONCENTRATION SURVEY RESULTS

GENERAL SITE LOCATION	GRID#	COORDINATES (NW CORNER)	AVERAGE GRID CONCENTRATION BEFORE REMEDIATION (pCi/g) (*)	AVERAGE SAMPLE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	WEIGHTED GRID AVERAGE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	AVERAGE DEPTH OF EXCAVATION (ft.)	MEETS REMEDIATION CRITERIA (Y=YES, N=NO)
BUILDING 11	0055	20S70E	48	16	16	3	Y
STOCKADE	0056	40S50E	154	19	19	5	Y
	0057	50S50E	97	4	4	4.6	Y
	0058	60S50E	44	13	13	3.5	Y
	0077	30S130E	262	16	17	6.5	Y
	0080	60S80E	23	24	24	Wall exposed (6)	Y
	0085	10S80E	<30	48	30	5.5	Y
	0086	20S120E	<30	17	17	Wall exposed (4.6)	Y
	0087	20S130E	<30	14	14	Wall exposed (6.5)	Y
	0088	20S140E	<30	-	-	Wall exposed (6)	Y
	0089	30S120E	<30	19	19	4.6	Y
	0090	30S140E	<30	8	8	6	Y
	0091	40S120E	<30	21	21	6.5	Y
	0092	40S130E	<30	21	21	6	Y
	0093	40S140E	24	22	22	4	Y
	0094	10S90E	<30	34	19	8	Y
	0095	10S70E	<30	-	-	Wall exposed (4)	Y
	0098	50S120E	<30	13	13	5	Y
	0099	50S130E	<30	12	12	4.5	Y
	0100	50S140E	<30	20	20	4	Y

ME-017221

CONCENTRATIONS (pCi/g) = TOTAL URANIUM

(*) 1994 CHARACTERIZATION DATA

TEXAS INSTRUMENTS INCORPORATED
ATTLEBORO, MA. FACILITY

POST REMEDIATION FINAL SOIL CONCENTRATION SURVEY RESULTS

GENERAL SITE LOCATION	GRID#	COORDINATES (NW CORNER)	AVERAGE GRID CONCENTRATION BEFORE REMEDIATION (pCi/g) (*)	AVERAGE SAMPLE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	WEIGHTED GRID AVERAGE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	AVERAGE DEPTH OF EXCAVATION (ft.)	MEETS REMEDIATION CRITERIA (Y=YES, N=NO)
BUILDING 11 STOCKADE	0101	50S150E	<30	-	-	Wall exposed (4)	Y
BUILDING 11 RAILSPUR	0059	80S40E	42	7	7	6.5	Y
	0060	70S40E	299	9	9	6	Y
	0061	60S40E	711	8	8	6	Y
	0062	50S40E	111	7	7	5	Y
	0063	40S40E	58	7	7	4.5	Y
	0064	30S40E	146	9	9	5	Y
	0065	70S30E	823	12	12	6	Y
	0066	60S30E	384	1	11	5	Y
	0067	50S30E	97	6	12	5	Y
	0068	30S30E	31	14	27	4.5	Y
	0069	20S30E	38	16	16	4.5	Y
	0070	80S20E	33	29	29	Test Pits (4)	Y
	0071	60S20E	84	9	9	3	Y
	0072	50S20E	81	5	5	3	Y
	0073	30S20E	38	14	14	4.5	Y
	0074	30S10E	44	12	12	4	Y
	0075	20S10E	43	10	10	5	Y
	0076	20S0E	64	15	15	4	Y
	0096	40S30E	<30	4	4	5	Y

CONCENTRATIONS (pCi/g) = TOTAL URANIUM

(*) 1994 CHARACTERIZATION DATA

ME-017222

TEXAS INSTRUMENTS INCORPORATED
ATTLEBORO, MA. FACILITY

POST REMEDIATION FINAL SOIL CONCENTRATION SURVEY RESULTS

GENERAL SITE LOCATION	GRID#	COORDINATES (NW CORNER)	AVERAGE GRID CONCENTRATION BEFORE REMEDIATION (pCi/g) (*)	AVERAGE SAMPLE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	WEIGHTED GRID AVERAGE CONCENTRATION FOLLOWING REMEDIATION (pCi/g)	AVERAGE DEPTH OF EXCAVATION (ft.)	MEETS REMEDIATION CRITERIA (Y=YES, N=NO)
BUILDING 11	0097	40S20E	<30	10	10	5	Y
RAILSPUR	0102	20S20E	29	13	13	4	Y
	0103	20S40E	<30	30	42	2	N
	0104	70S20E	21	6	6	Wall exposed (6)	Y
	0105	40S10E	23	11	11	Wall exposed (5)	Y

ME-017223

CONCENTRATIONS (pCi/g) = TOTAL URANIUM

(*) 1994 CHARACTERIZATION DATA

ATTACHMENT 7
Texas Instruments Attleboro Facility
Residual Contamination Documentation

What is the purpose of this table.
→ It's not clear from the title.
→ Why are we reporting grid cells for which an individual sample ≥ 30 but the average is ≤ 30 — We never reported these in the past... why draw attention.
→ I would only report on the 3 grid cells that exceed 30

TABLE 1

TEXAS INSTRUMENTS INCORPORATED
ATTLEBORO, MA. FACILITY

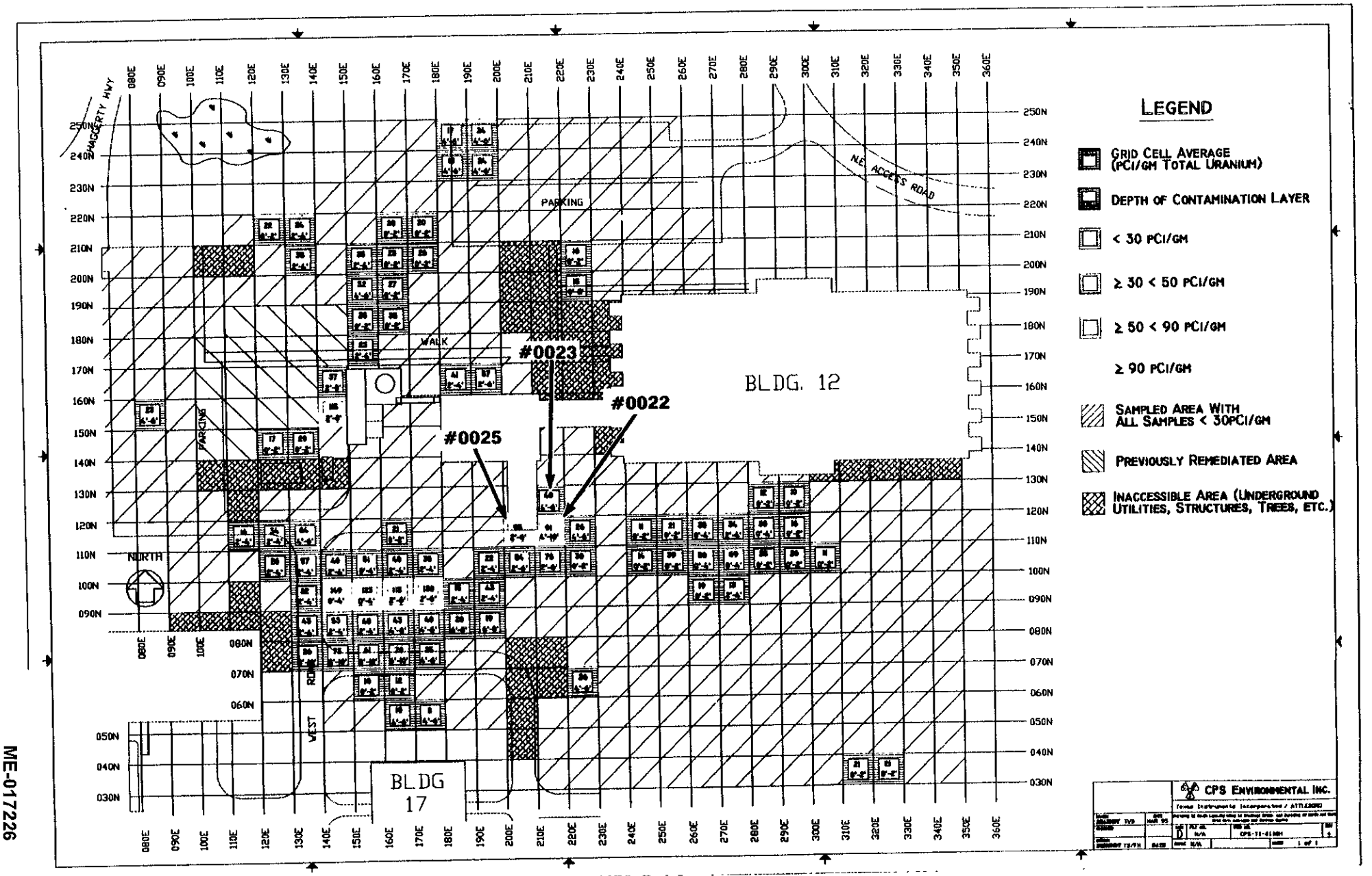
EXTERIOR REMEDIATION CONTAMINATION DATA

GRID#	COORDINATES (NW CORNER)	AVERAGE CONTAMINATION FOLLOWING EXCAVATION (pCi/g)	AVERAGE CONTAMINATION LEFT IN PLACE (pCi/g)	WEIGHTED GRID AVERAGE CONTAMINATION (pCi/g)	ESTIMATED CONTAMINATION VOLUME (ft^3)	CONTAMINATION DIMENSIONS (LxWxD) (ft.)	DEPTH TO CONTAMINATION (ft.)	MEETS REMEDIATION CRITERIA (Y=YES, N=NO)	OBSTRUCTION
0022	120N210E	17	63	20	72	12x6x1	10	Y	Bldg. 12 Loading Dock Foundation
0023	130N210E	13	54	21	198	33x6x1	10	Y	Bldg. 12 Loading Dock Foundation
0025	120N200E	10	58	30	450	15x30x1	10	Y	Bldg. 12 Loading Dock Foundation
0066	60S30E	1	66	11	495	33x5x3	5	Y	Electrical Duct Bank and Sewer Line
0067	50S30E	6	42	12	495	33x5x3	5	Y	Electrical Duct Bank and Sewer Line
0068	30S30E	14	101	27	495	33x5x3	4.5	Y	Electrical Duct Bank and Sewer Line
0103	20S40E	30	94	42	198	6x33x1	2	N	Electrical Duct Bank
0051	30S80E	9	62	12	70	2x35x1	8	Y	Sewer Line and Groundwater Infiltration
0052	30S90E	36	145	46	198	diameter=8, D=2, 2x4x2, 2x20x2	8	N	Sewer Line, Groundwater Infiltration, and Worker Health & Safety
0085	10S80E	48	48	30	363	2x33x5.5	1	Y	Willard Road and Worker Health & Safety
0094	10S90E	34	34	19	726	11x33x2	8	Y	Chemical Lines, Sewer Line, Electrical Lines, Willard Road, and Worker Health & Safety
0053	20S90E	41	87	47	1521	12x12x4, 33x33x1	8	N	Chemical Line Station Foundation and Worker Health & Safety
0077	30S130E	16	70	17	25	diameter=2, D=2	6.5	Y	High Pressure Steam Line

Why is this shaded? 30 pCi/gm satisfies criteria

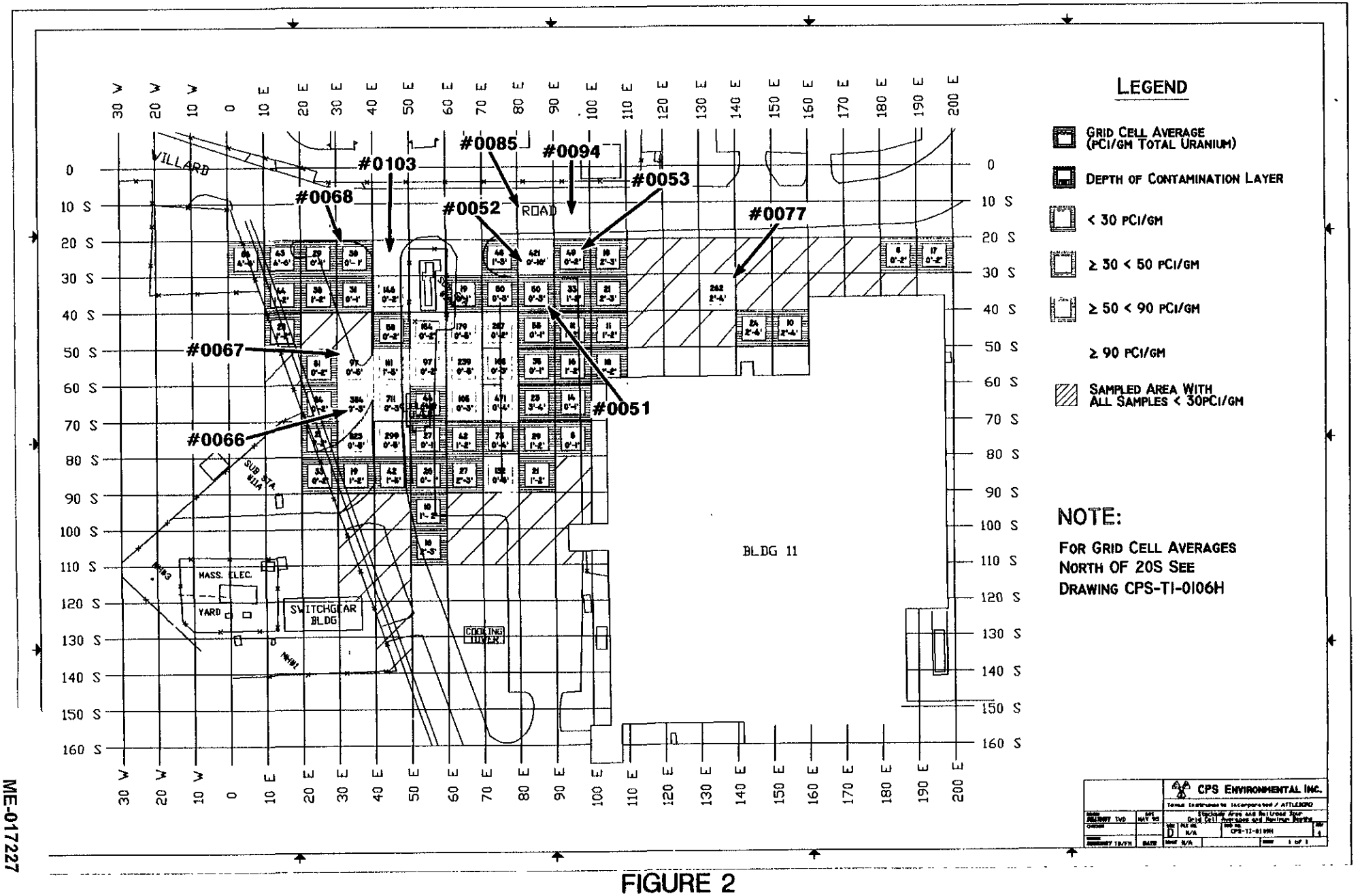
L = Length (North-South)
W = Width (East-West)
D = Depth

ME-017225



ME-017226

FIGURE 1
BUILDING 12 - SOUTH LAWN AREA



ME-017227

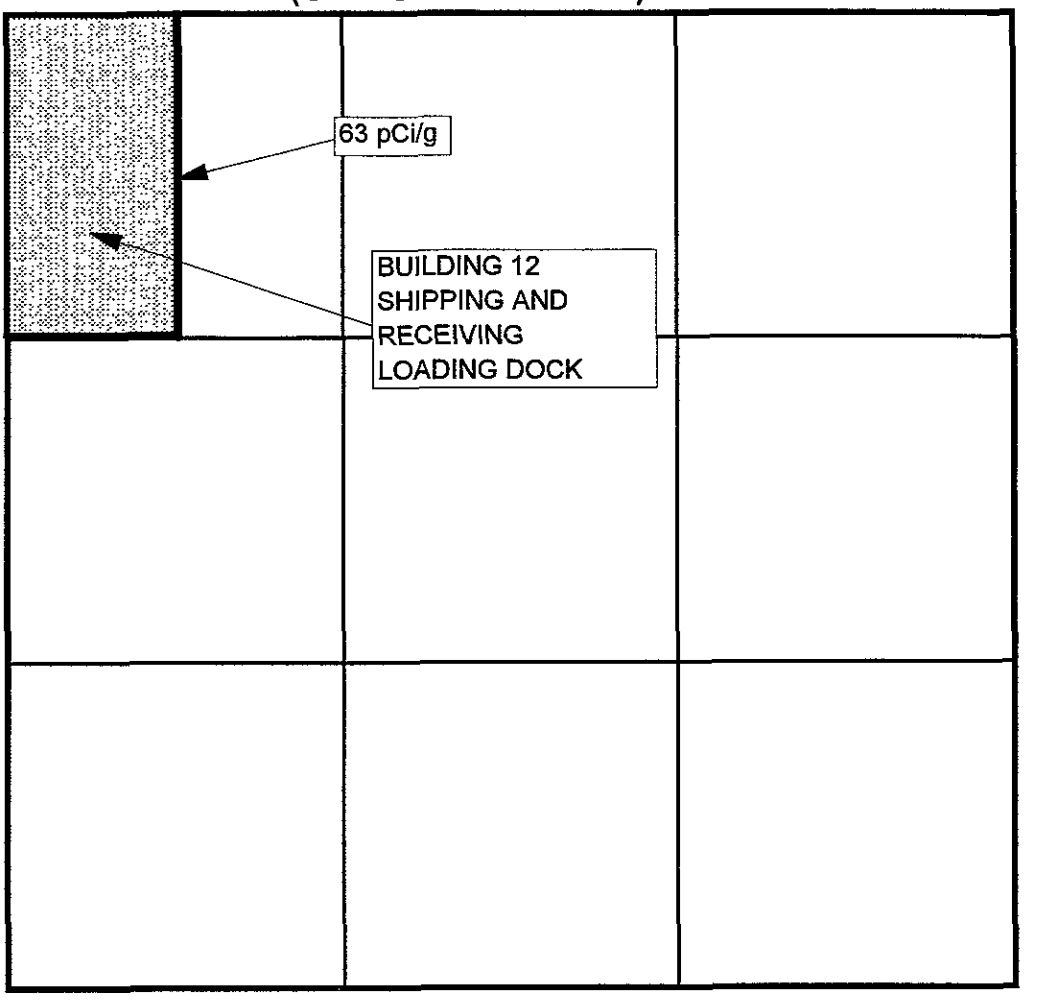
FIGURE 2

BUILDING 11 - RAILSPUR/STOCKADE AREA

0022.XLS

Should we add depth to all of these diagrams, so one can have to go back to Table 1

Remediation Area Grid Block #0022
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 120N210E

Average Grid Contamination level; 17 pCi/g

Should we try to limit extent.

Weighted Average Grid Contamination level; 20 pCi/g

Comments: Soil averaging 63 pCi/g was left under the foundation of the loading dock in grid block #0023. There is a high probability that the contamination continues to the west under this foundation.

Reasons leaving the soil are :

1) removal of soil would leave no support for the foundation

2) continued excavation would compromise worker health & safety

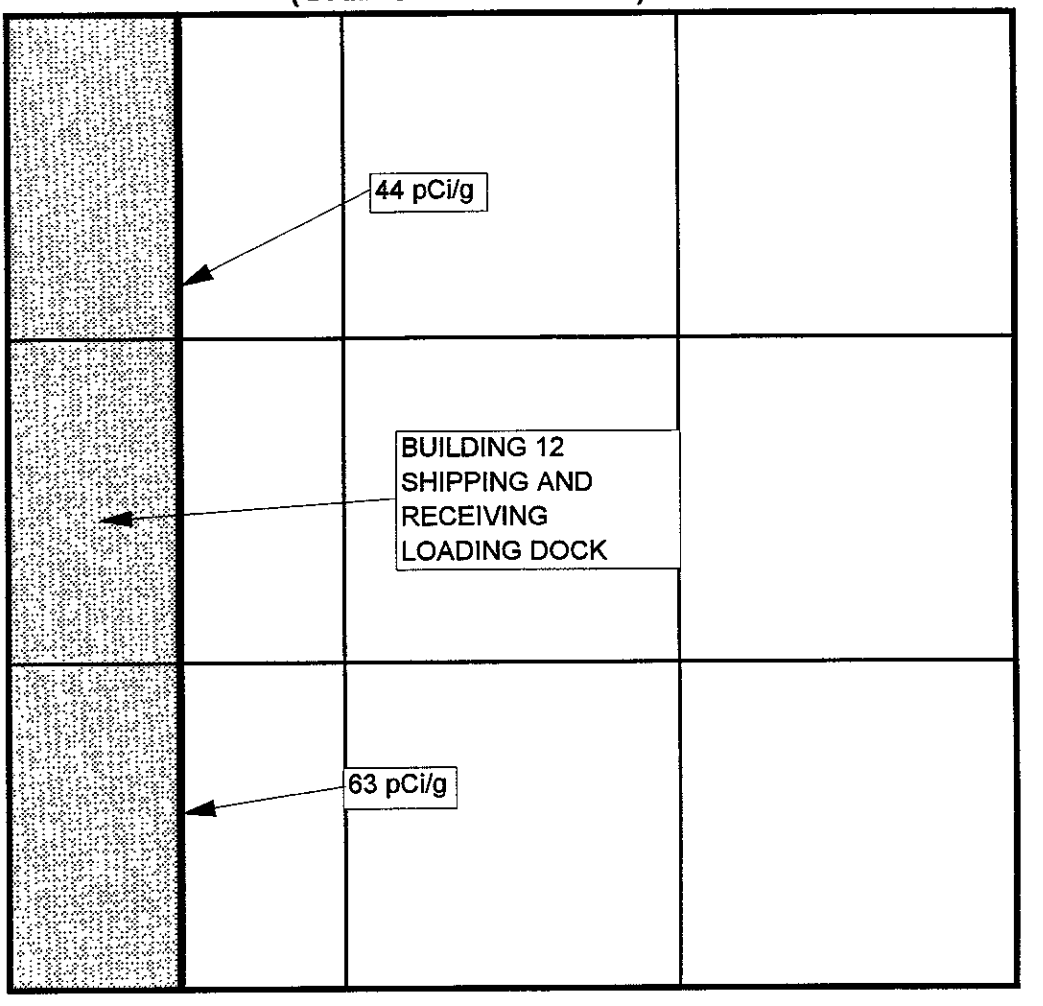
The volume of contaminated soil left in place in grid #0022 is equal to 72 cubic feet.

Form Completed By: Steve Shafer Date 12/15/1995

Soil Sample locations

0023.XLS

Remediation Area Grid Block #0023
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 130N210E

Average Grid Contamination level; 13 pCi/g

Weighted Average Grid Contamination level; 21 pCi/g

Comments: Soil averaging 54 pCi/g was left under the foundation of the loading dock in grid block #0023. There is a high probability that the contamination continues to the west under this foundation. (Should have try to limit?)

Reasons leaving the soil are :

1) removal of soil would leave no support for the foundation

2) continued excavation would compromise worker health & safety

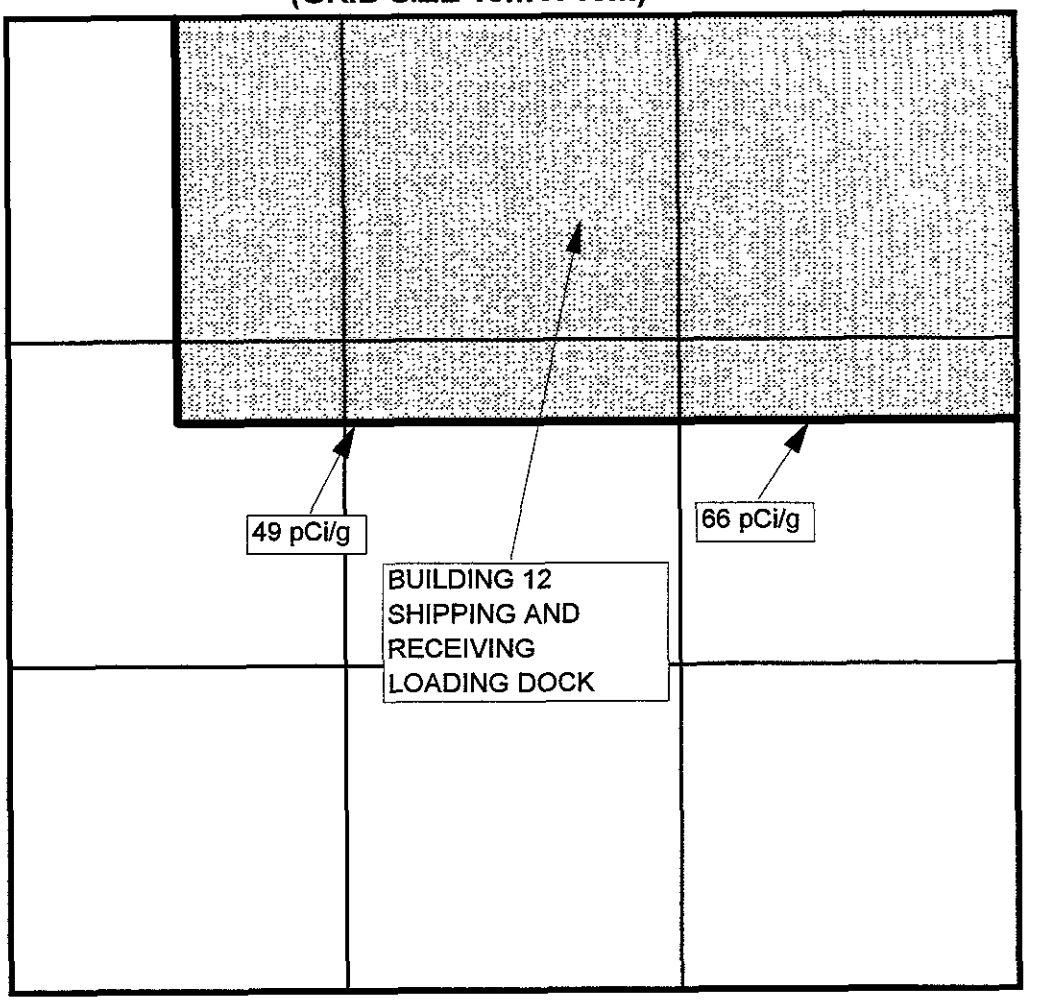
The volume of contaminated soil left in place in grid #0023 is equal to 198 cubic feet.

Form Completed By: Steve Shafer Date 12/15/1995

Soil Sample locations

0025 XLS

Remediation Area Grid Block #0025
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 120N200E

Average Grid Contamination level; 10 pCi/g

Weighted Average Contamination level; 30 pCi/g

Comments: Soil averaging 58 pCi/g was left under the foundation of the loading dock in grid block #0025. There is a high probability that the contamination continues to the north under this foundation. (Limit of excavation)

Reasons leaving the soil are :

1) removal of soil would leave no support for the foundation

2) continued excavation would compromise worker health & safety

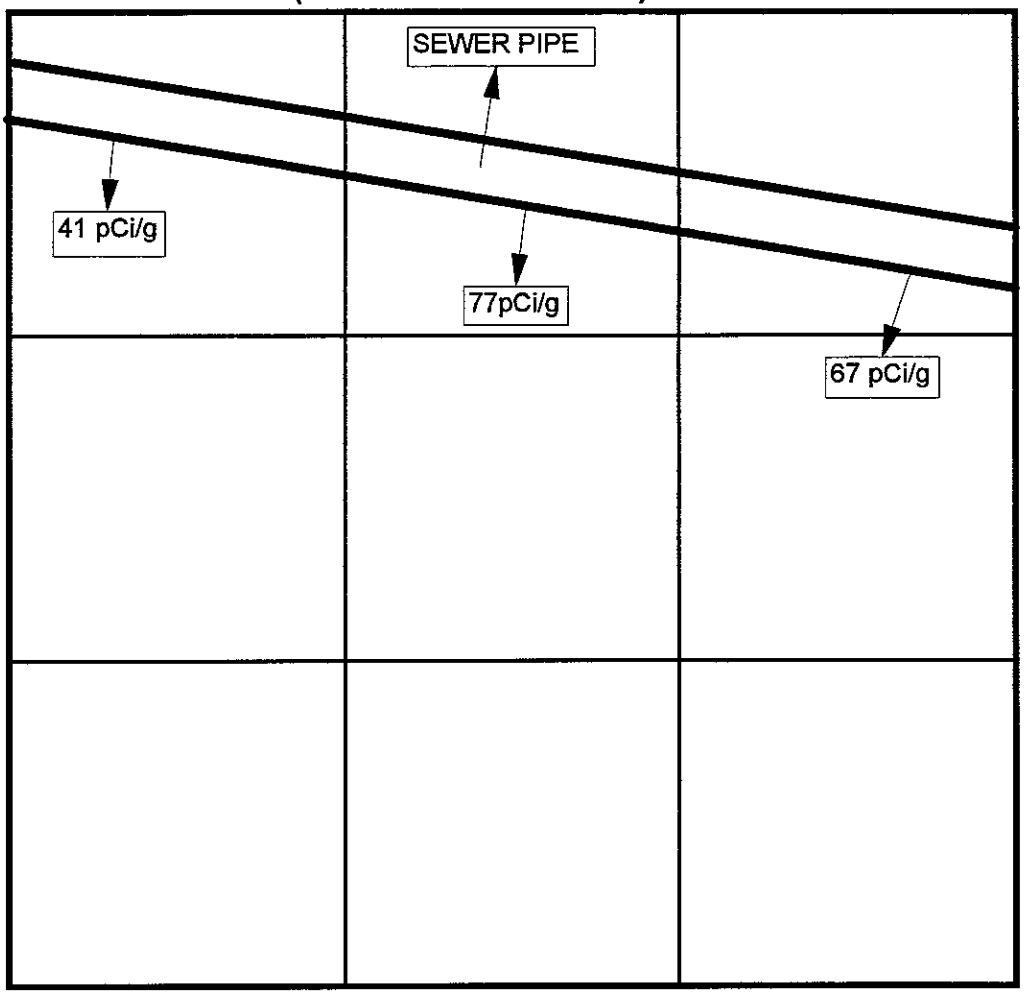
The volume of contaminated soil left in place in grid #0025 is equal to 450 cubic feet.

Form Completed By: Steve Shafer Date 12/15/1995

Soil Sample locations

0051.XLS

Remediation Area Grid Block #0051
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 30S80E

depth?

Average Grid Contamination level; 9 pCi/g

Weighted Average Grid Contamination level; 12 pCi/g

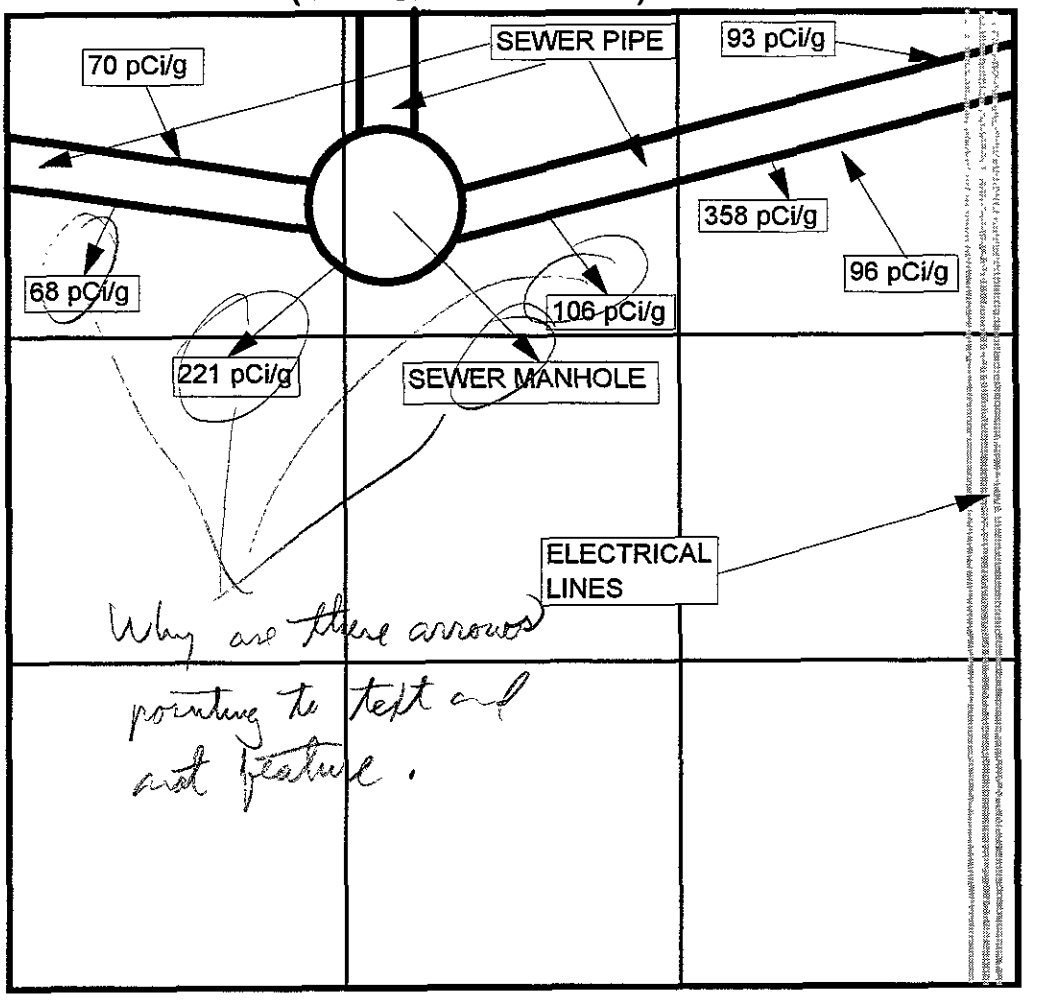
Comments: Soil averaging 62 pCi/g was left under the sewer pipe in grid block #0051.
Reasons for leaving the soil are :
1) uncontrolled infiltration of groundwater
2) removal of soil would damage the integrity of the pipe
3) the pipe system is a vital utility to the facility
4) the overall grid contamination level was cleaned up to approx. 1/3 the site cleanup criteria.
The volume of contaminated soil left in place is equal to 70 cubic feet.

Form Completed By: Steve Shafer Date 12/14/1995

Soil Sample locations

0052.XLS

Remediation Area Grid Block #0052
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 30S90E

Average Grid Contamination level; 36 pCi/g

Weighted Average Grid Contamination level; 46 pCi/g

depth ?

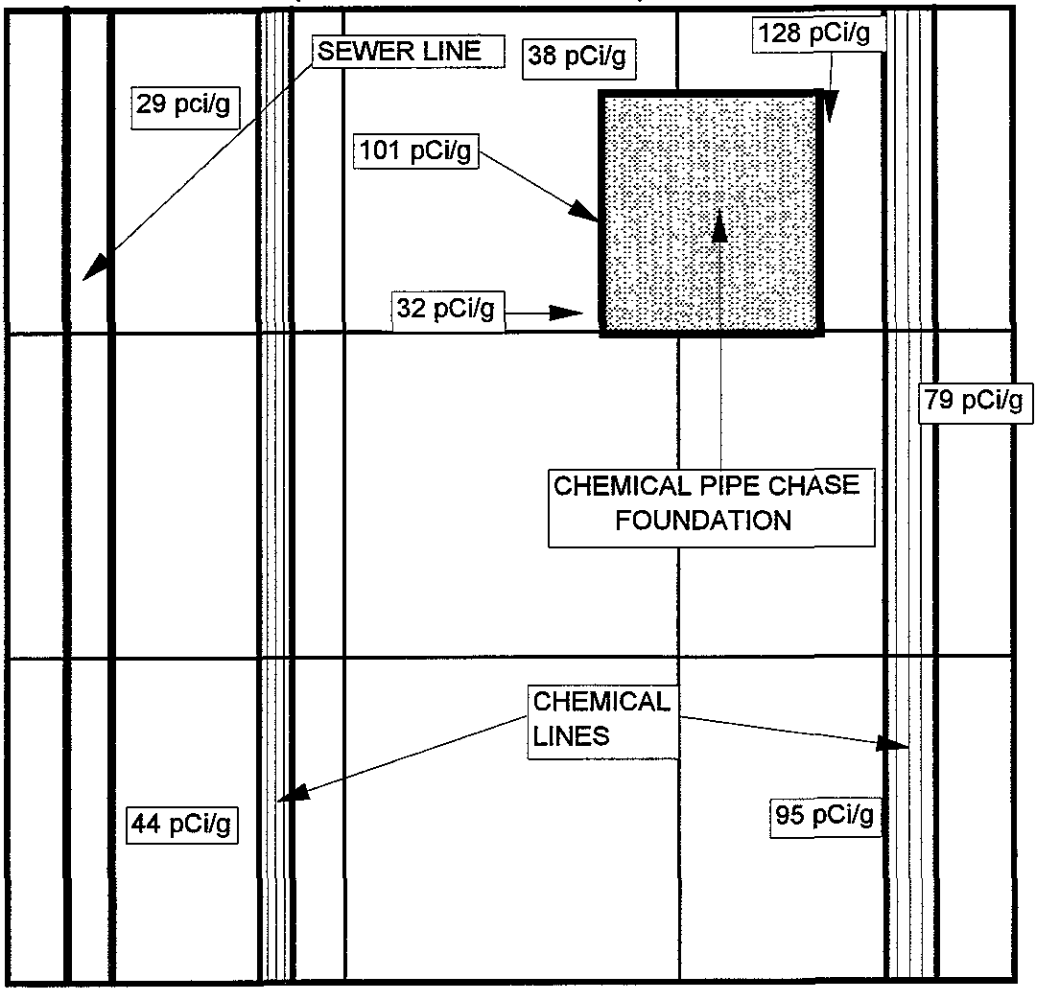
Comments: Soil averaging 145 pCi/g was left under the sewer pipe in grid block #0052.
Reasons for leaving the soil are :
1) uncontrolled infiltration of groundwater
2) removal of soil would damage the integrity of the pipe
3) the pipe system is a vital utility to the facility
4) worker health & safety would be compromised with further excavtion.
Average Grid Contamination level includes verification samples near pipe.
The volume of contaminated soil left in place is;
1) sewer line (west) = 16 cubic feet
2) sewer line (east) = 80 cubic feet Total = 198 cubic feet
3) sewer manhole = 102 cubic feet.

Form Completed By: Steve Shafer Date 12/14/1995

Soil Sample Locations

0053B.XLS

Remediation Area Grid Block #0053
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 20S90E

Average Grid Contamination level; 41 pCi/g

Weighted Average Grid Contamination level; 47 pCi/g

Comments: Soil averaging 87 pCi/g was left under the pipe chase foundation in grid block #0053.

Reasons for leaving the soil are :

1) uncontrolled infiltration of groundwater
2) removal of soil would damage the integrity of the chemical line support system
3) the chemical pipe system is vital to facility operations
4) worker health & safety would be compromised with further excavation.

The volume of contaminated soil left in place is equal to 576 cubic feet.

The overall grid average concentration is above the cleanup criteria. It is estimated that approximately 945 cubic feet of contaminated soil remains.

Total contaminated soil above 30 pCi/g in this grid is 1521 cubic feet.

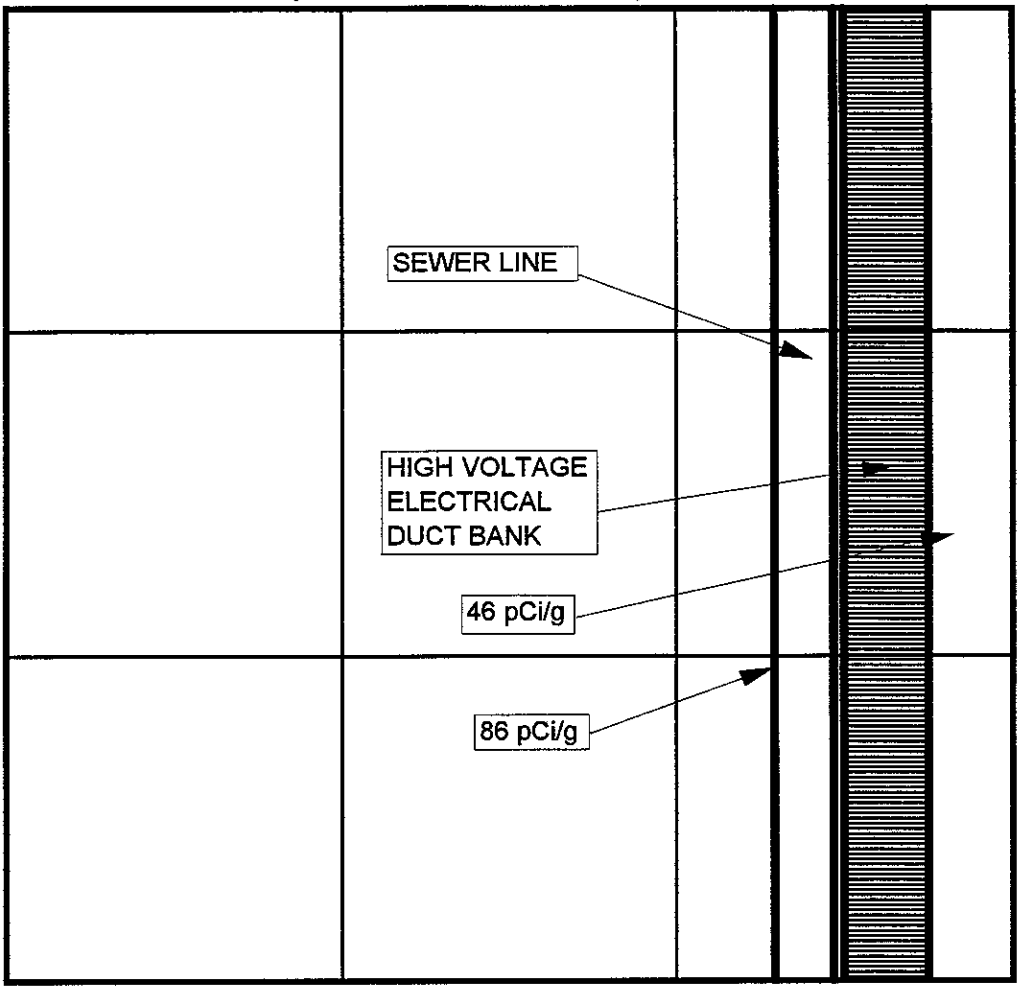
Form Completed By: Steve Shafer Date 12/15/1995

Soil Sample locations

depth ?

0066.XLS

Remediation Area Grid Block #0066
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 60S30E

depth ?

Average Grid Contamination level; 1 pCi/g

Weighted Average Grid Contamination level; 11 pCi/g

Comments: Soil averaging 66 pCi/g was left under the sewer pipe and electrical duct bank. The sample collected was a composite along the length of both sides of the utilities in grid block #0066.

Reasons for leaving the soil are :

1) removal of soil would damage the integrity of the utilities
2) the utilities are vital to the operations in Bldg. 10 and 11.
3) the overall grid contamination level was cleaned to background.

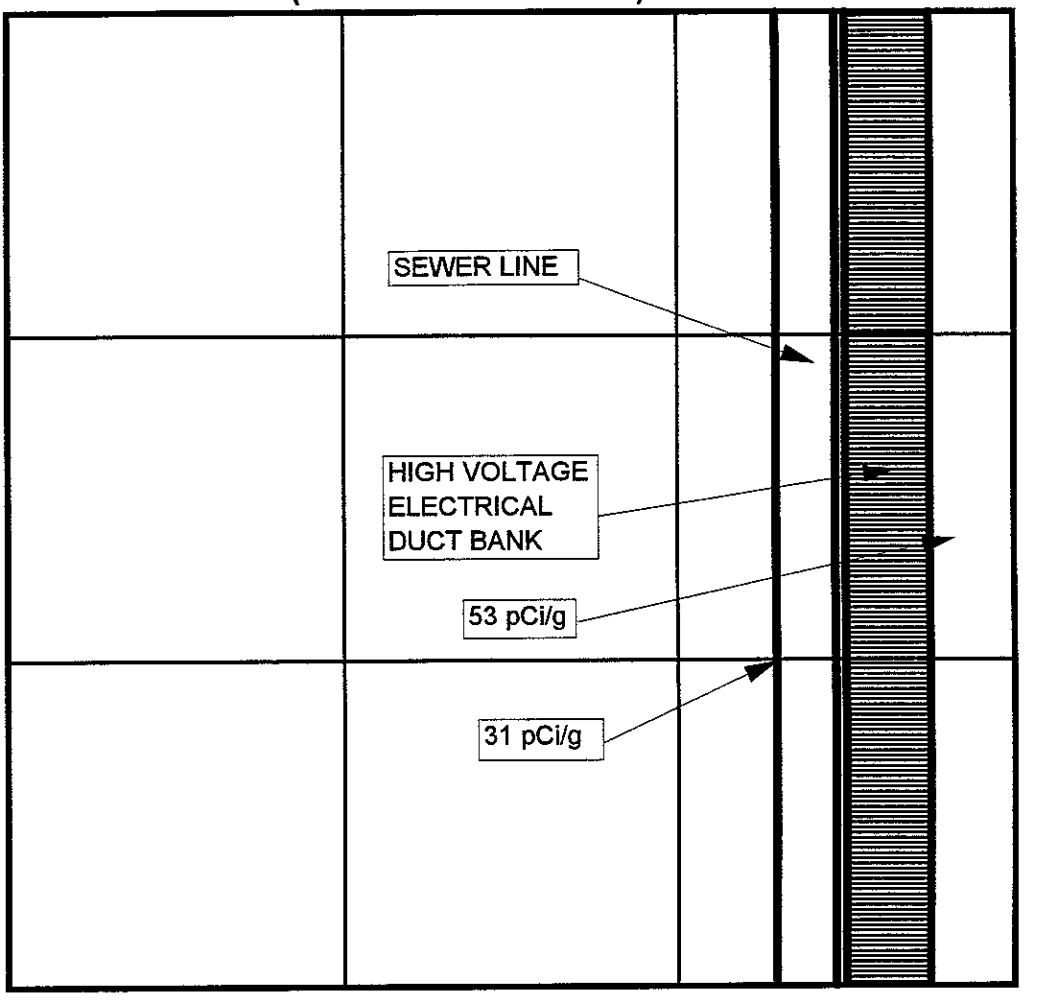
The volume of contaminated soil left in place is equal to 495 cubic feet.

Form Completed By: Steve Shafer Date 12/15/1995

Composite Soil Sample

0067.XLS

Remediation Area Grid Block #0067
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 50S30E

Average Grid Contamination level; 6 pCi/g

Weighted Average Grid Contamination level; 12 pCi/g

Comments: Soil averaging 42 pCi/g was left under the sewer pipe and electrical duct bank. The sample collected was a composite along the length of both sides of the utilities in grid block #0067.

Reasons for leaving the soil are :

1) removal of soil would damage the integrity of the utilities
2) the utilities are vital to the operations in Bldg. 10 and 11.
3) the overall grid contamination level was cleaned to less than 30 pCi/g.

The volume of contaminated soil left in place is equal to 495 cubic feet.

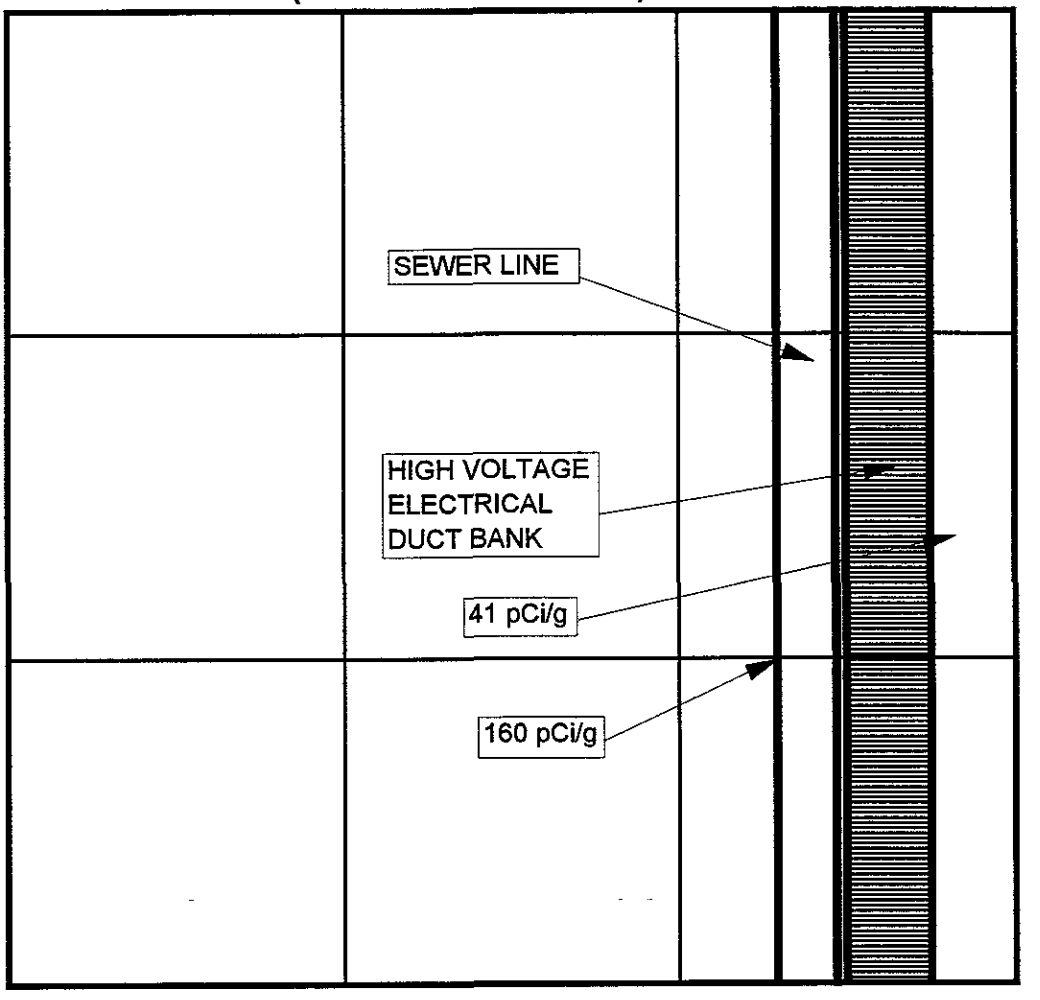
Form Completed By: Steve Shafer Date 12/15/1995

Composite Soil Sample

ME-017235

0068.XLS

Remediation Area Grid Block #0068
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 30S30E

Average Grid Contamination level; 14 pCi/g

Weighted Average Grid Contamination level; 27 pCi/g

Comments: Soil averaging 101 pCi/g was left under the sewer pipe and electrical duct bank. The sample collected was a composite along the length of both sides of the utilities in grid block #0068.

Reasons for leaving the soil are :

1) removal of soil would damage the integrity of the utilities
2) the utilities are vital to the operations in Bldg. 10 and 11.
3) the overall grid contamination level was cleaned to less than 30 pCi/g.

The volume of contaminated soil left in place is equal to 495 cubic feet.

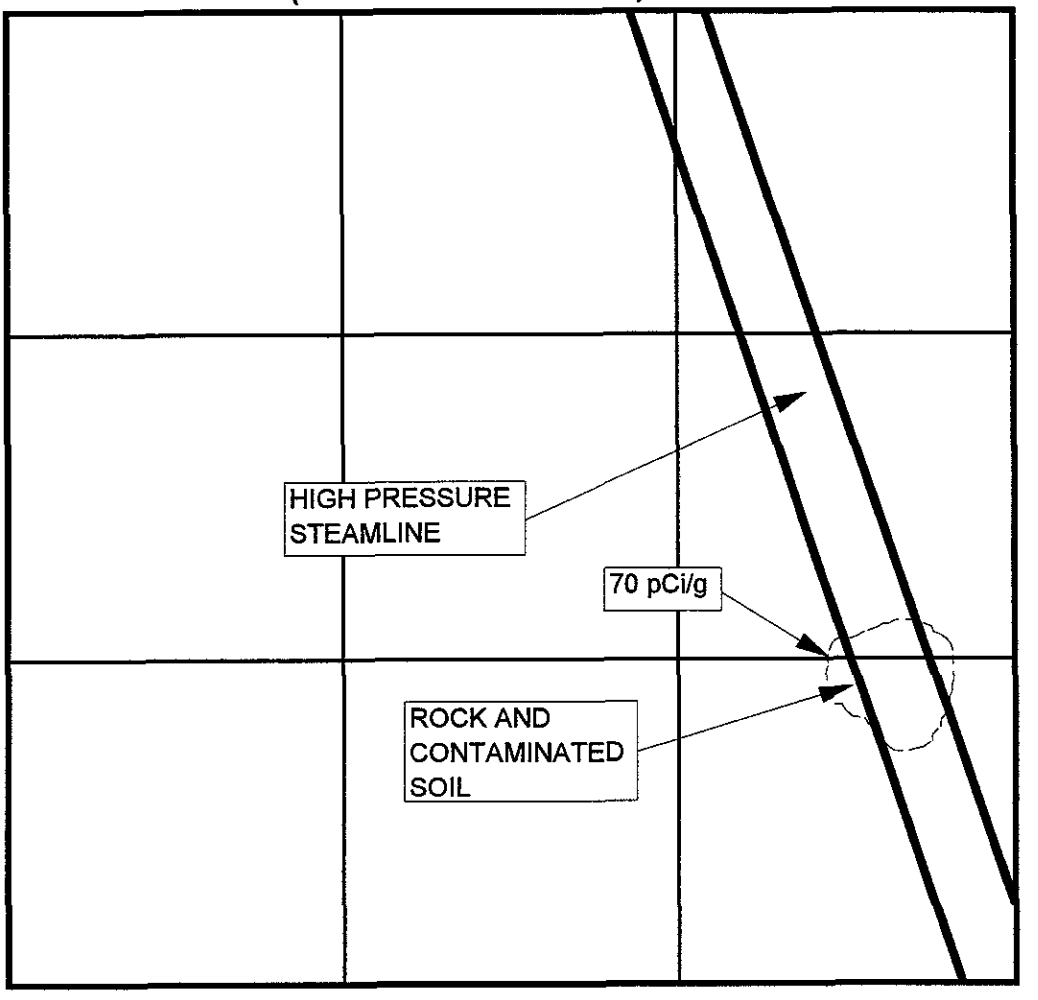
Form Completed By: Steve Shafer Date 12/15/1995

Composite Soil Sample

0077.XLS

Remediation Area Grid Block #0077

(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 30S130E

Average Grid Contamination level; 16 pCi/g

Weighted Average Grid Contamination level; 17 pCi/g

Comments: Soil averaging 70 pCi/g was left under the steamline in grid block #0077.
Reasons for leaving the soil are :
1) contaminated soil surrounded large rock and if rock was removed the integrity of the steamline could be jeopardized.
2) if steamline was fractured the workers health & safety could be compromised.

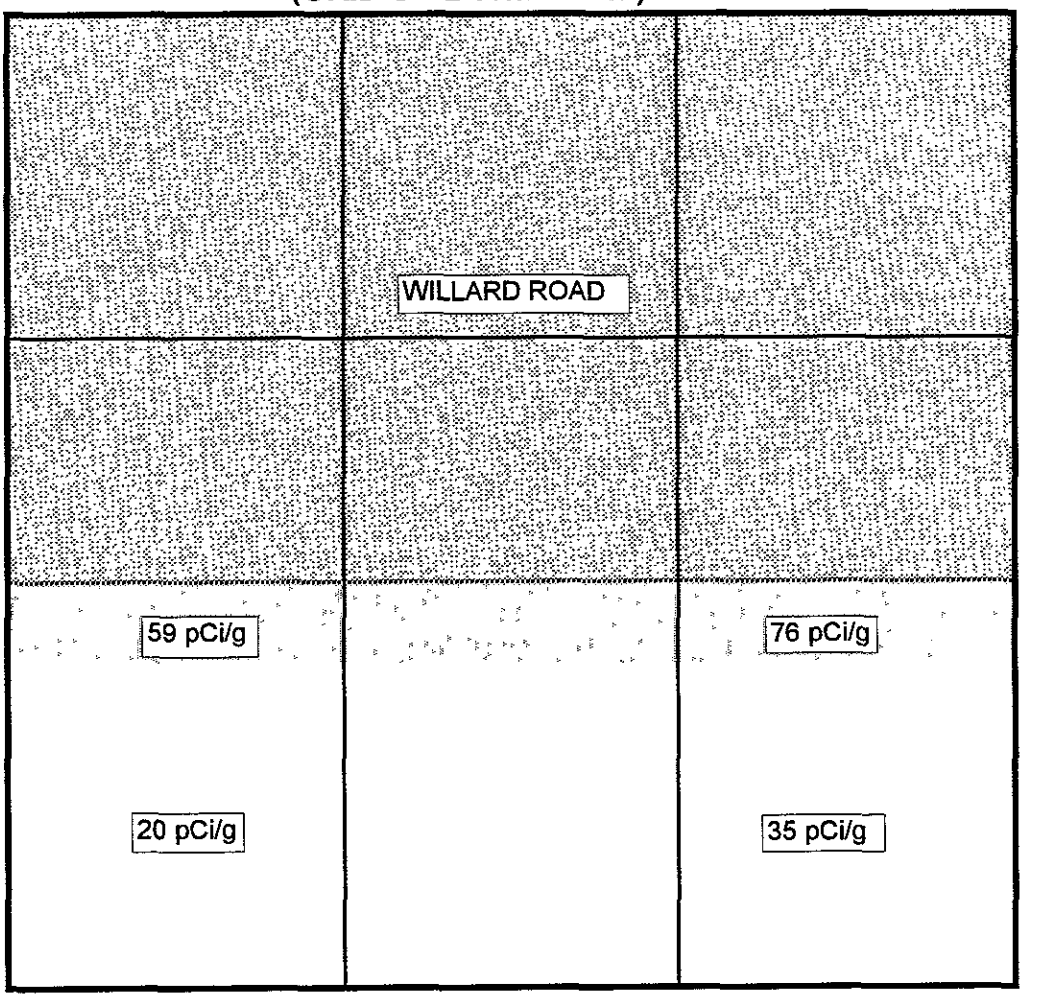
The volume of contaminated soil left in place is equal to 25 cubic feet.

Form Completed By: Steve Shafer Date 12/15/1995

Soil Sample locations

0085.XLS

Remediation Area Grid Block #0085
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) *10S80E*

Average Grid Contamination level; 48 pCi/g (includes north wall)

Weighted Average Grid Contamination level; 30 pCi/g

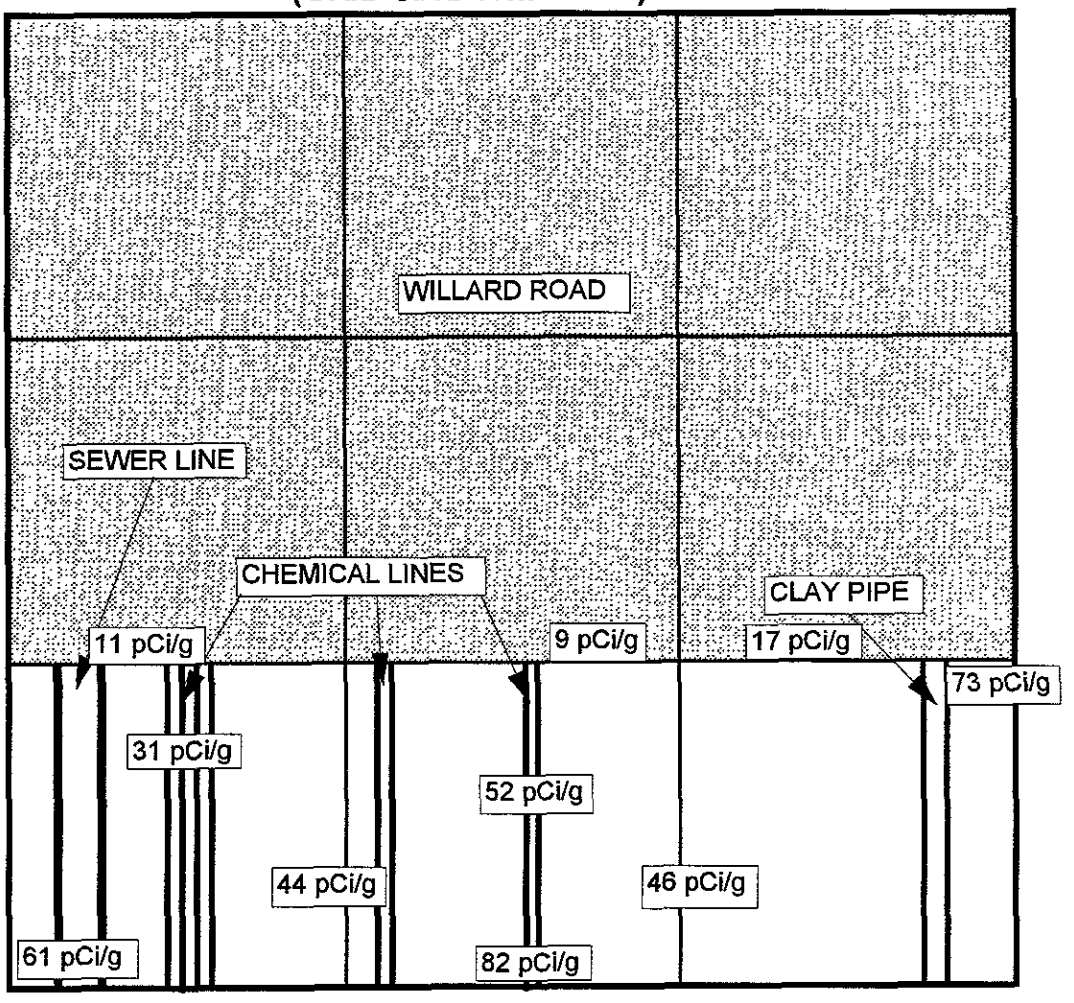
Comments: Soil averaging 48 pCi/g was left in the north wall of grid block #0085.
Reasons for leaving the soil are ;
1) uncontrolled infiltration of groundwater
2) Willard road would have to be closed causing major disruption in operations at the facility
3) worker health & safety would be compromised if excavation continued.
The volume estimate is based on information obtained during cleanup of grid #0094 which is adjacent to this grid (northern extent of contamination).
The volume of contaminated soil left in place is equal to 363 cubic feet assuming the contamination continues 2 more feet to the north.

Form Completed By: Steve Shafer Date 12/15/1995

Soil Sample locations | Unexcavated Area | Contaminated Soil

0094.XLS

Remediation Area Grid Block #0094
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 10S90E

Average Grid Contamination level; 34 pCi/g

Weighted Average Grid Contamination level; 19 pCi/g

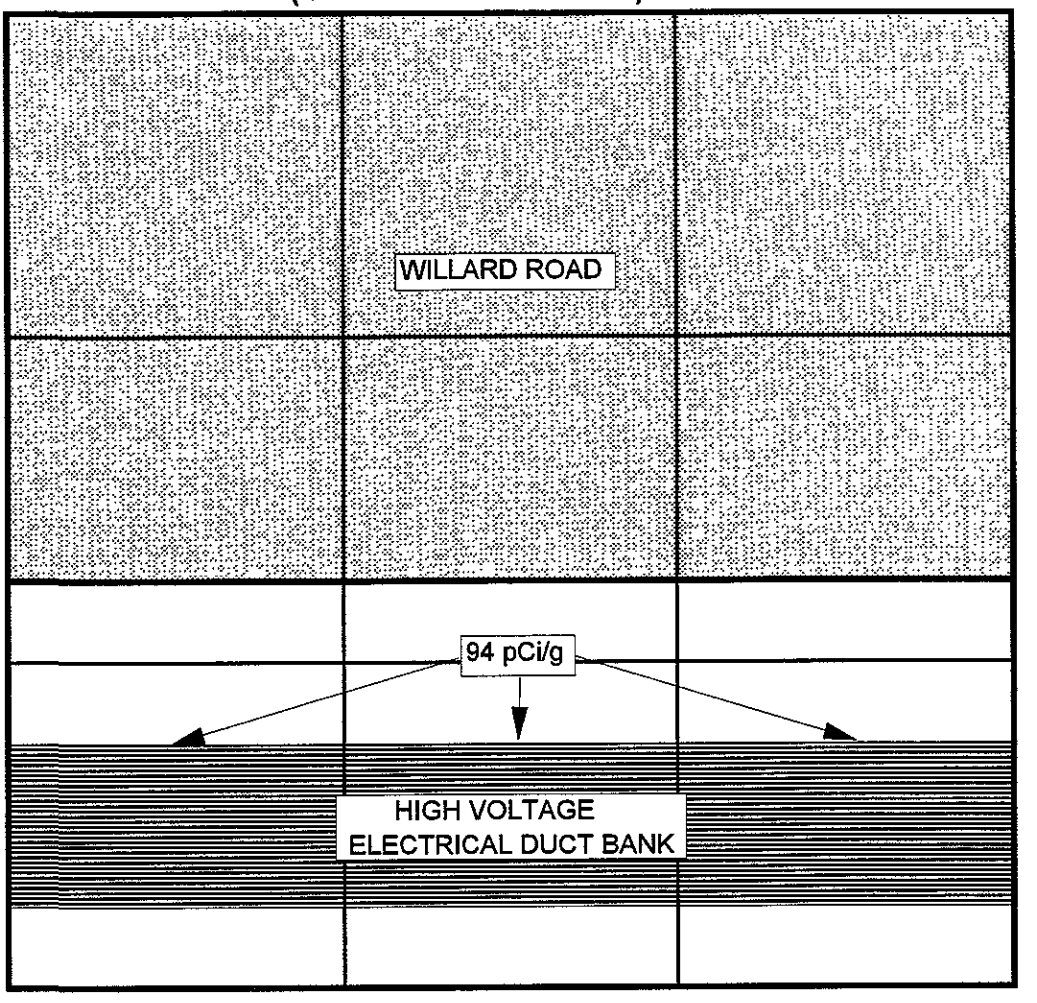
Comments: Soil averaging 34 pCi/g was left under the sewer pipe in grid block #0094.
Reasons for leaving the soil are ;
1) uncontrolled infiltration of groundwater
2) removal of soil would damage the integrity of the pipe systems
3) the pipe system is a vital utility to the facility
4) worker health & safety would be compromised if excavation continued
5) continued excavation would cause closure of Willard Road
6) northern extent of contamination cleaned up.
The volume of contaminated soil left in place is equal to 726 cubic feet assuming the contamination continues 2 more feet in depth.

Form Completed By: Steve Shafer Date 12/15/1995

Soil Sample locations | Unexcavated Area

0103B.XLS

Remediation Area Grid Block #0103
(GRID SIZE 10m X 10m)



N

Grid Coordinates; (NW Corner) 20S40E

Average Grid Contamination level; 30 pCi/g

Weighted Average Grid Contamination level; 42 pCi/g

Comments: Soil averaging 94 pCi/g was left under and between the electrical duct banks in grid block #0103.

Reasons for leaving the soil are :

1) worker health & safety would be compromised with continued excavation.
2) removal of soil would damage the structural integrity of duct bank
3) the electrical system is a vital utility to the facility
4) the overall average grid contamination level was cleaned up to 30 pCi/g.

The volume of contaminated soil left in place is equal to 198 cubic feet.

Form Completed By: Steve Shafer Date 12/15/1995

Soil Sample locations | Unexcavated Area

ATTACHMENT 8
Texas Instruments Attleboro Facility
Grid Cell Concentration Topographic Maps

ME-017241

POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

GRID# 0001, 200N 150E

No Check Samples Taken

What does this mean? Can we offer any other explanation - groundwater?

GRID# 0002, 190N 160E

No Check Samples Taken

GRID# 0003, 210N 130E

No Check Samples Taken

GRID# 0004, 170N 140E

No Check Samples Taken

Plots are labled in pCi/g and gradation is every 2 pCi/g

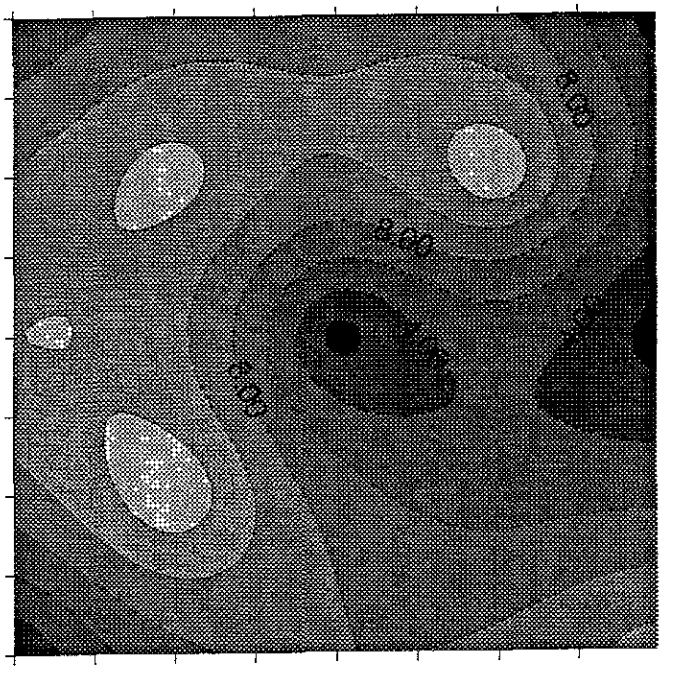
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

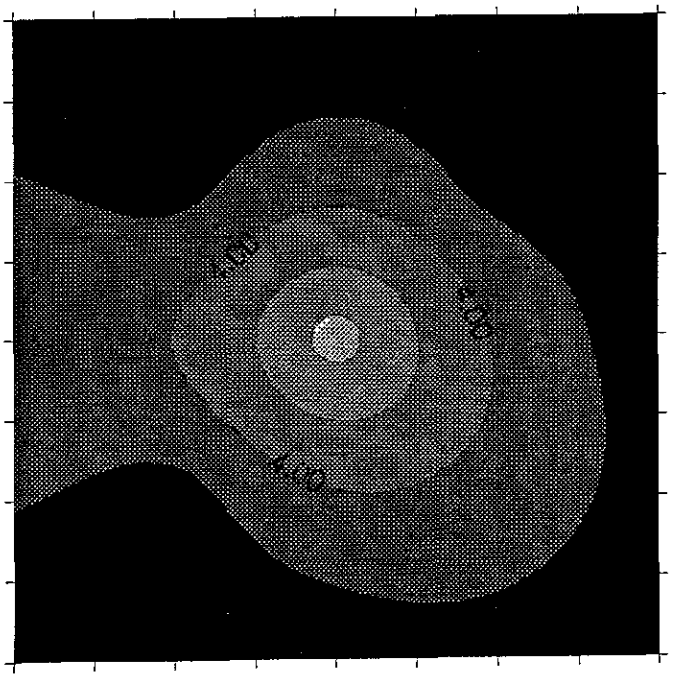
GRID# 0005, 160N 140E

No Check Samples Taken

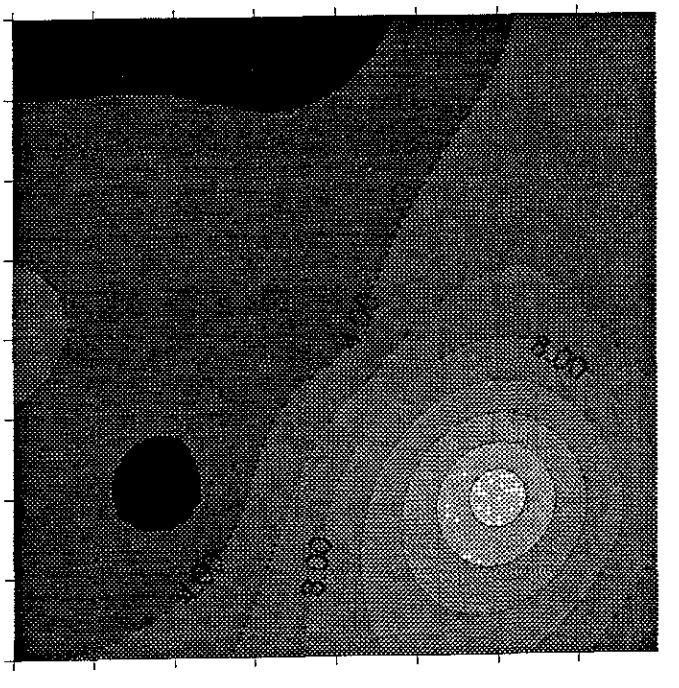
GRID# 0006, 120N 120E



GRID# 0007, 120N 130E



GRID# 0008, 110N 130E

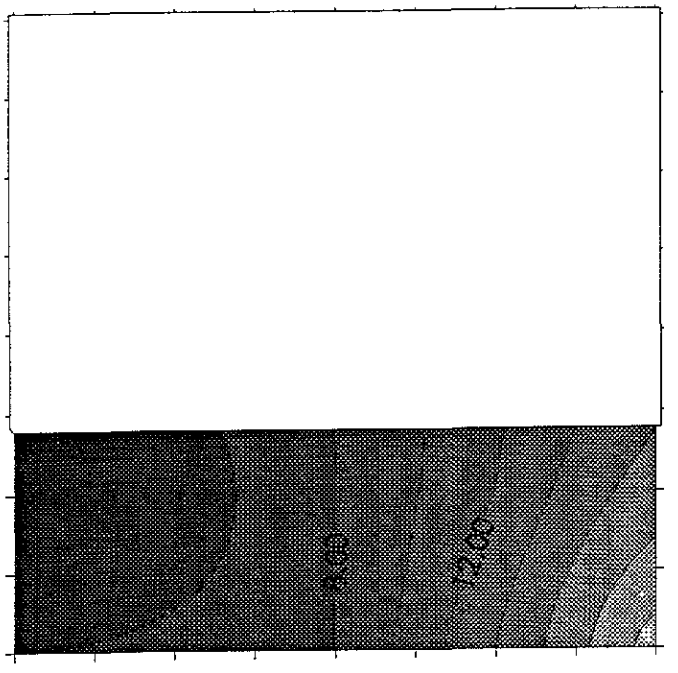


Plots are labled in pCi/g and gradation is every 2 pCi/g

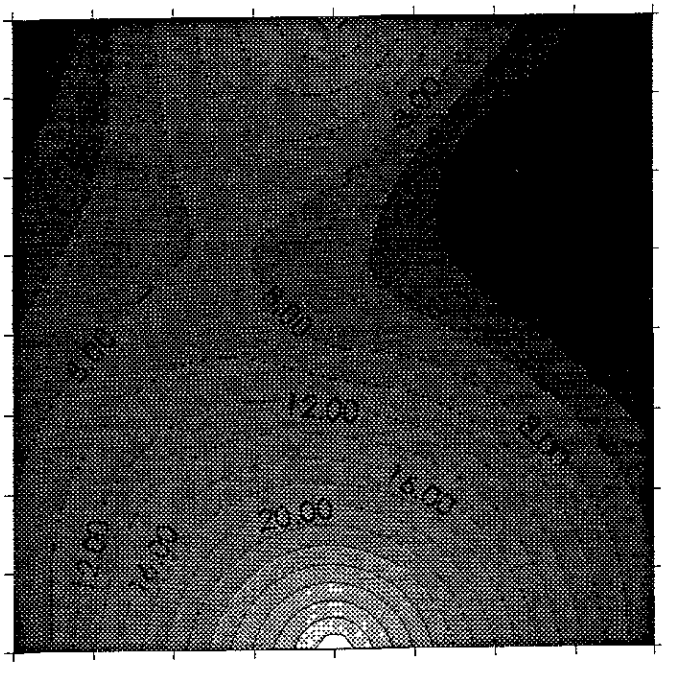
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

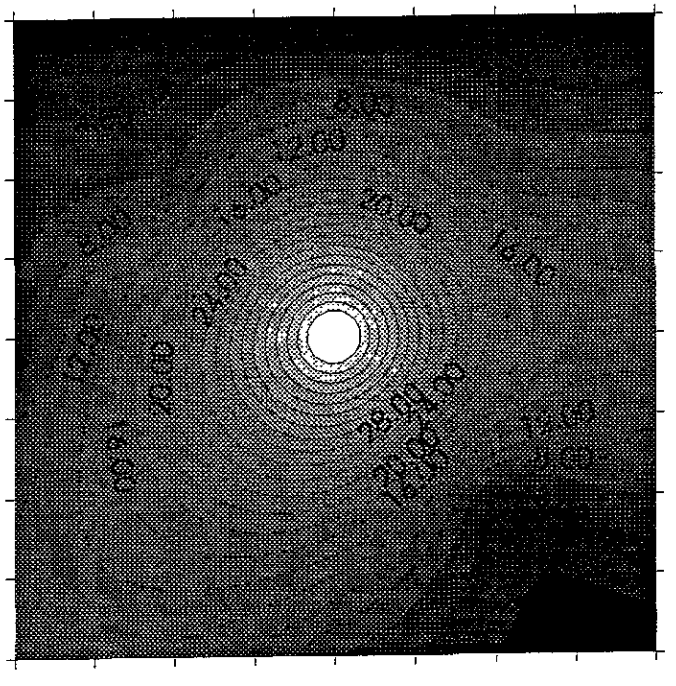
GRID# 0009, 110N 140E



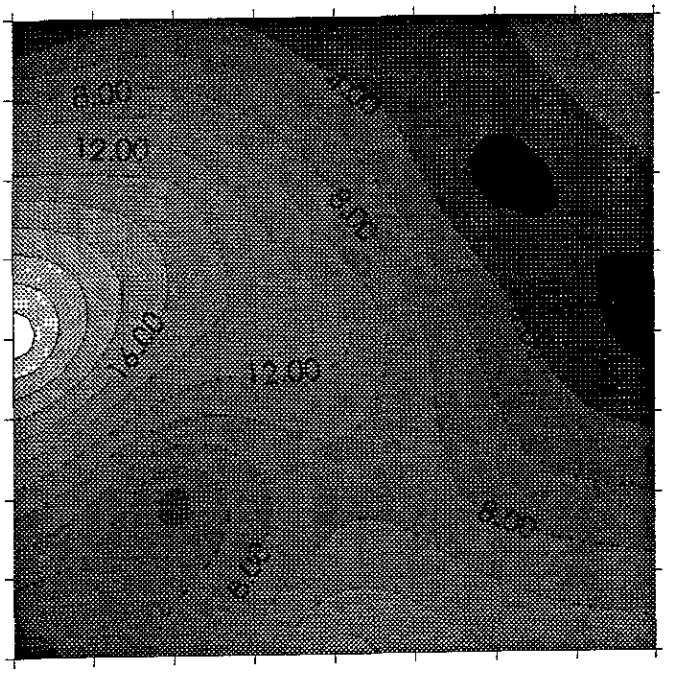
GRID# 0010, 110N 150E



GRID# 0011, 110N 160E



GRID# 0012, 110N 170E

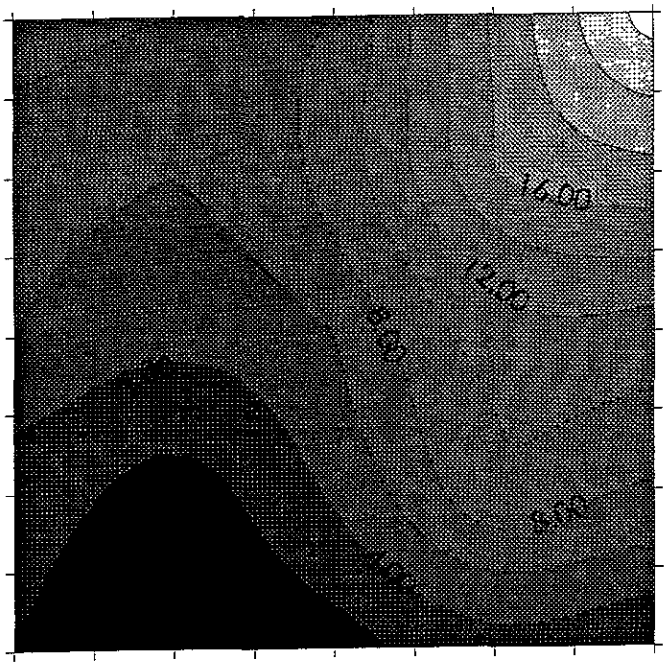


Plots are labled in pCi/g and gradation is every 2 pCi/g

POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

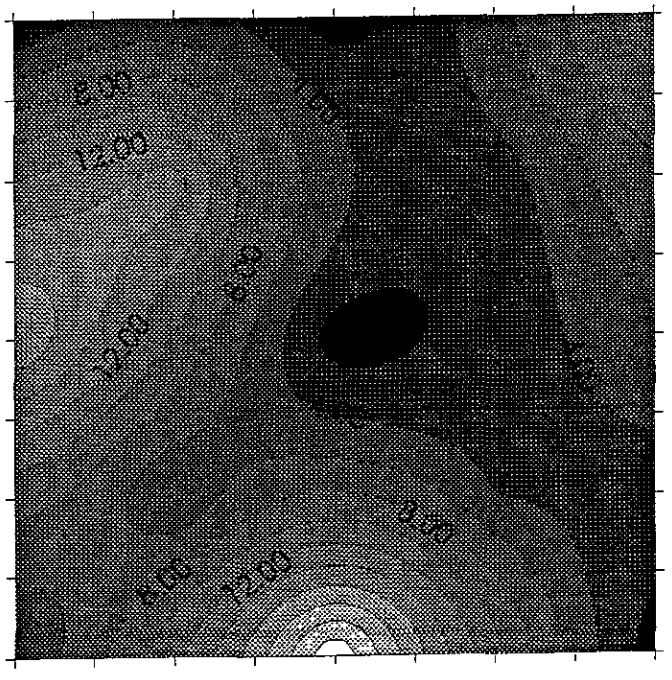
NORTH

GRID# 0013, 100N 130E



GRID# 0014, 100N 140E

GRID# 0015, 100N 150E



GRID# 0016, 120N 280E

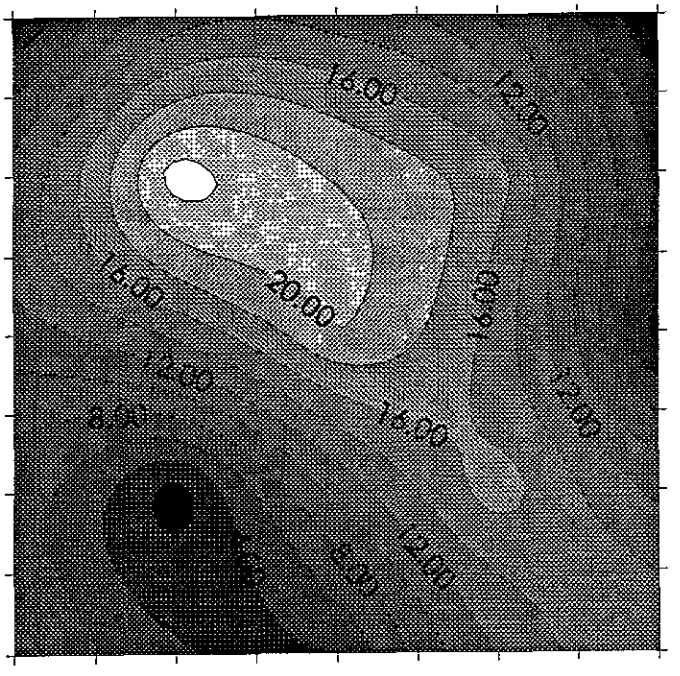
No Bottom Check Samples Taken

Plots are labled in pCi/g and gradation is every 2 pCi/g

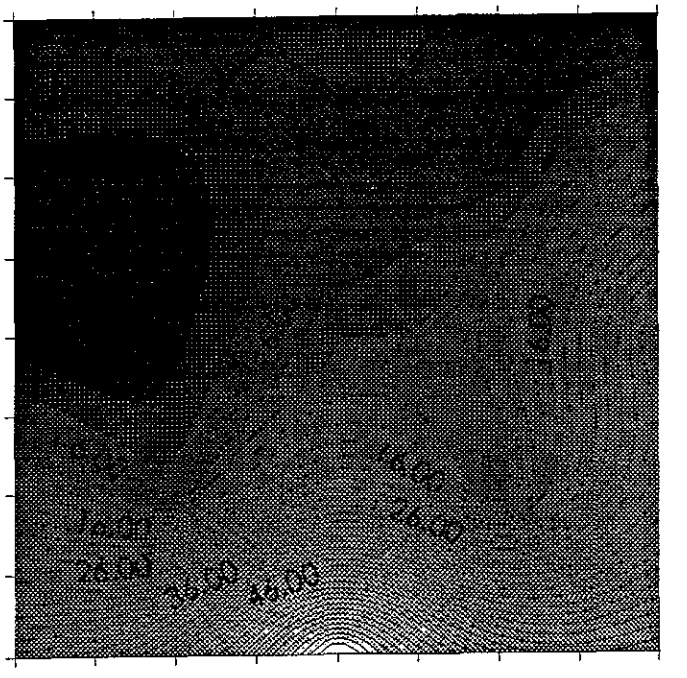
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

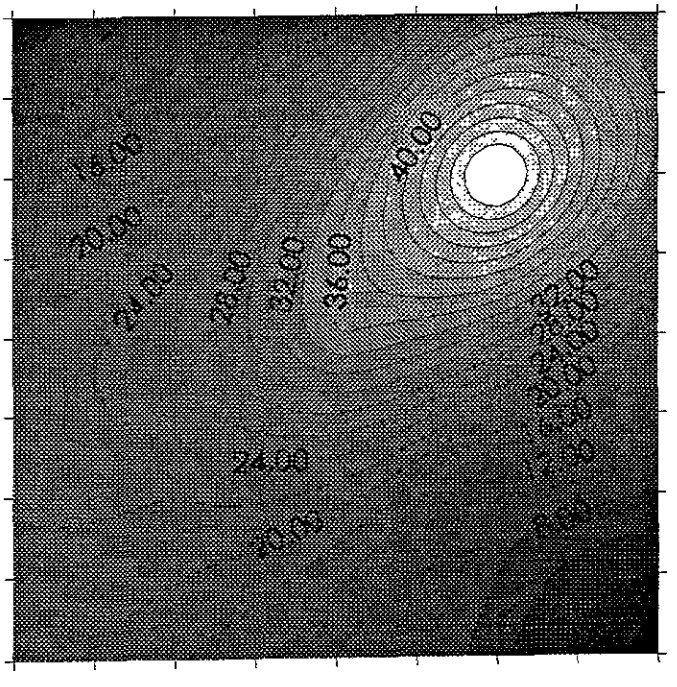
GRID# 0017, 120N 270E



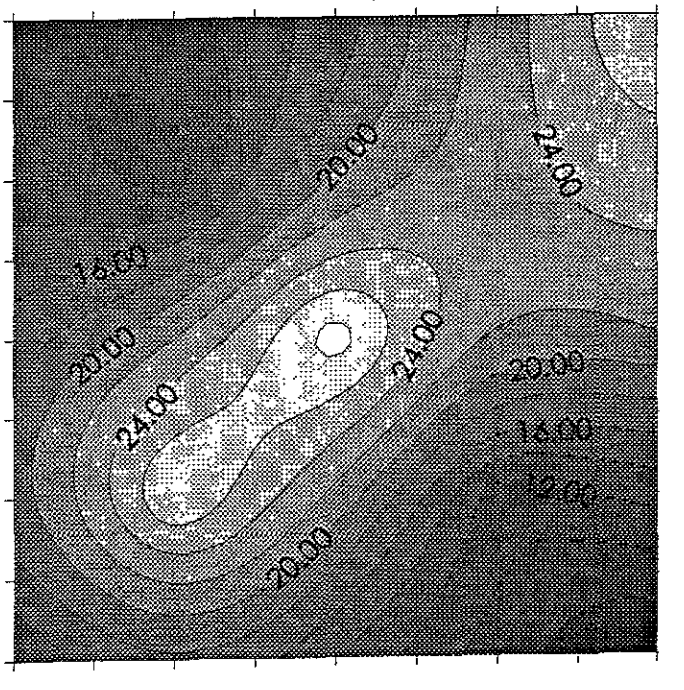
GRID# 0018, 120N 260E



GRID# 0019, 110N 270E



GRID# 0020, 110N 260E



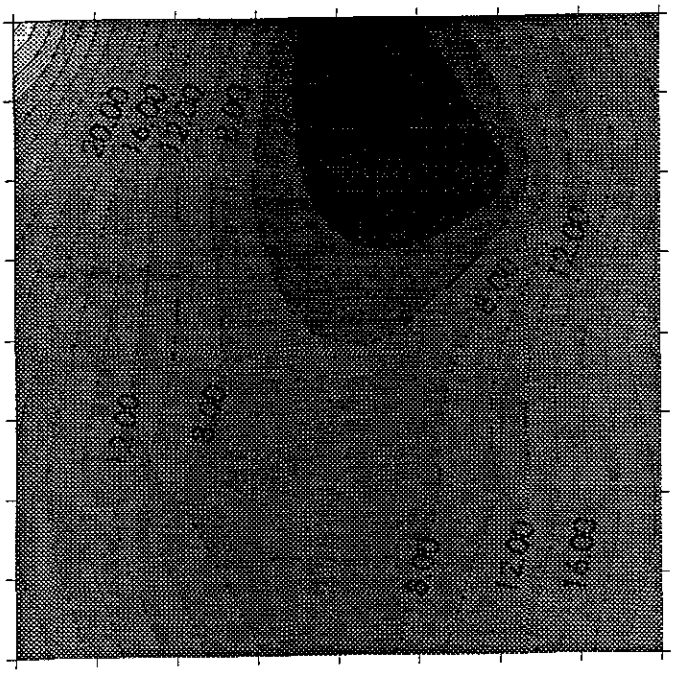
Plots are labled in pCi/g and gradation is every 2 pCi/g

ME-017246

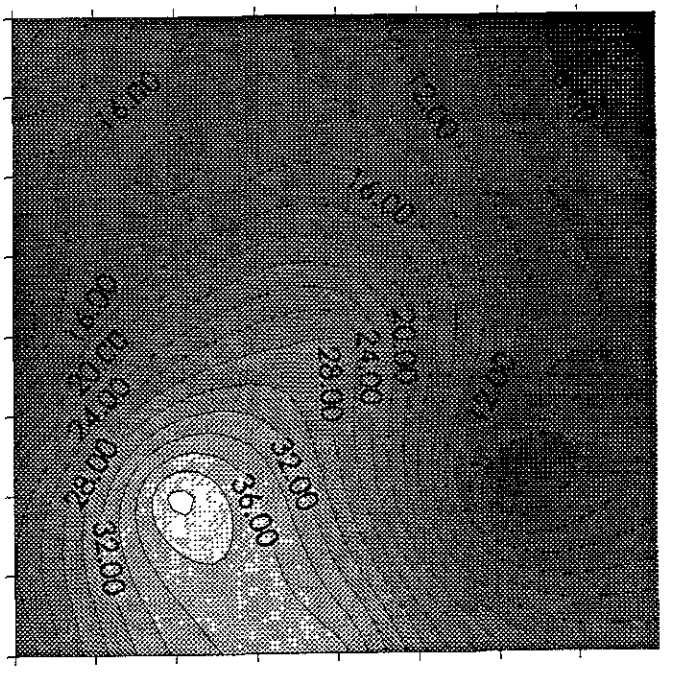
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOTS

NORTH

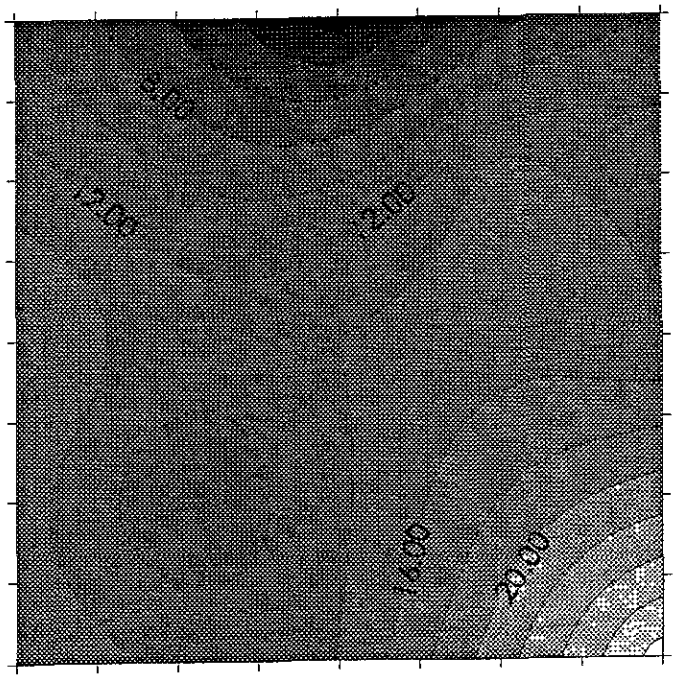
GRID# 0021, 110N 250E



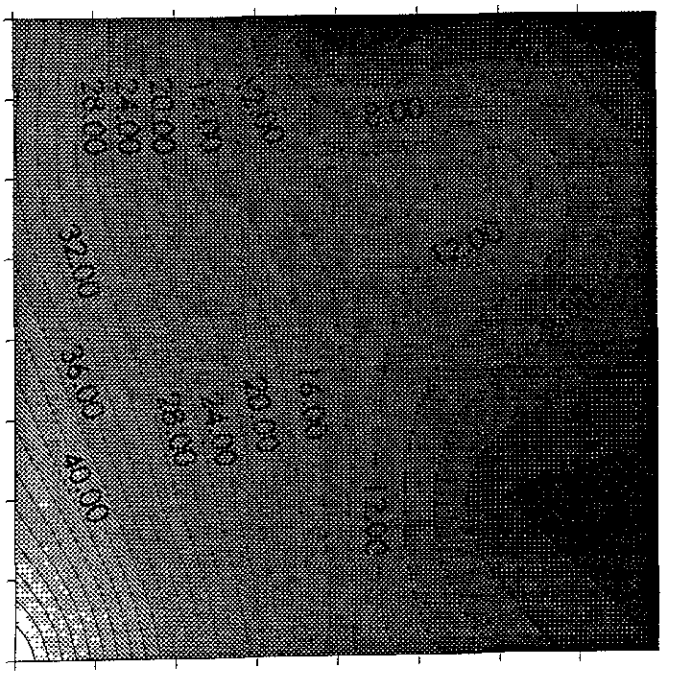
GRID# 0022, 120N 210E



GRID# 0023, 130N 210E



GRID# 0024, 110N 210E

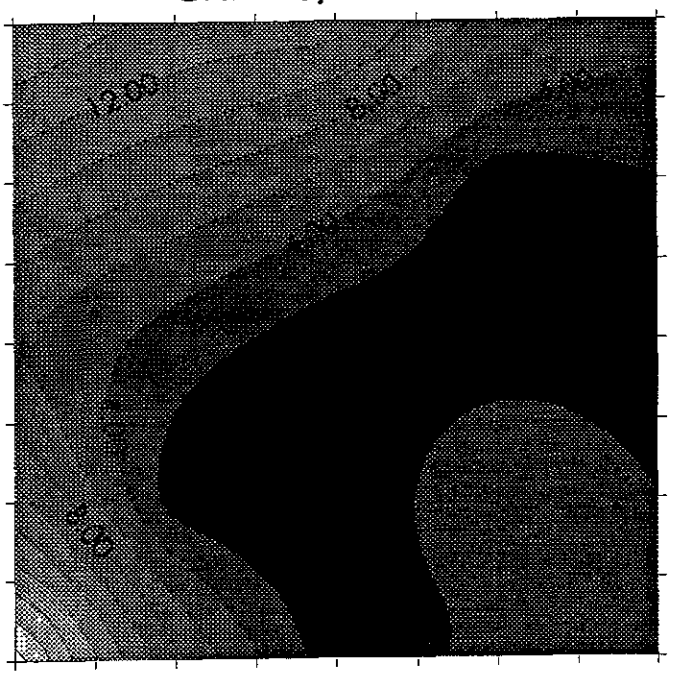


Plots are labled in pCi/g and gradation is every 2 pCi/g

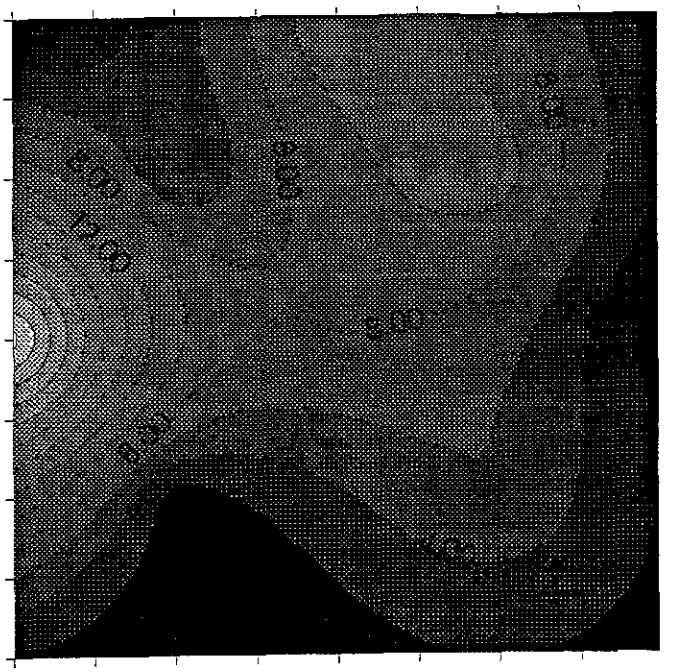
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

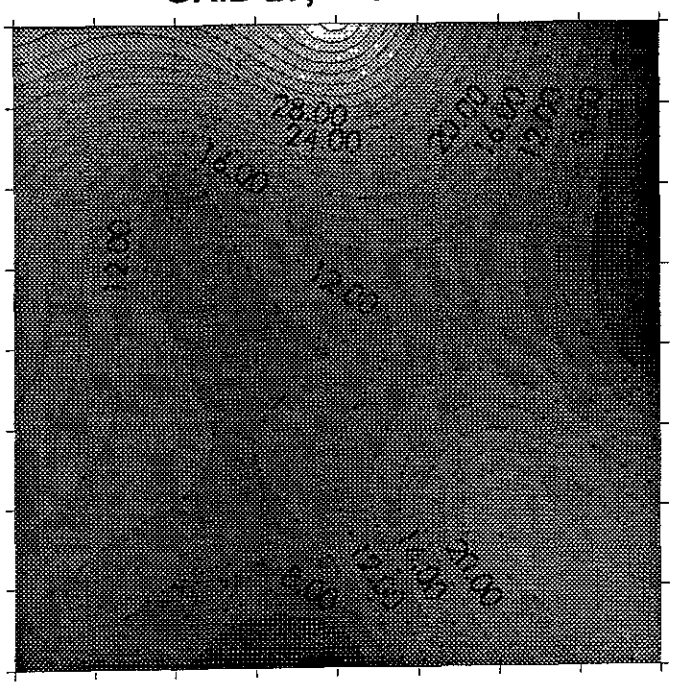
GRID 25, 120N 200E



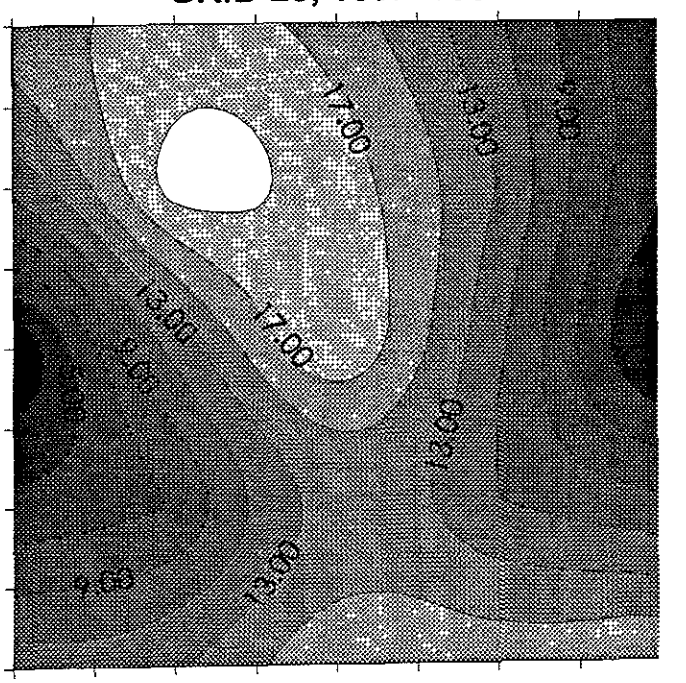
GRID 26, 110N 200E



GRID 27, 110N 220E



GRID 28, 100N 190E



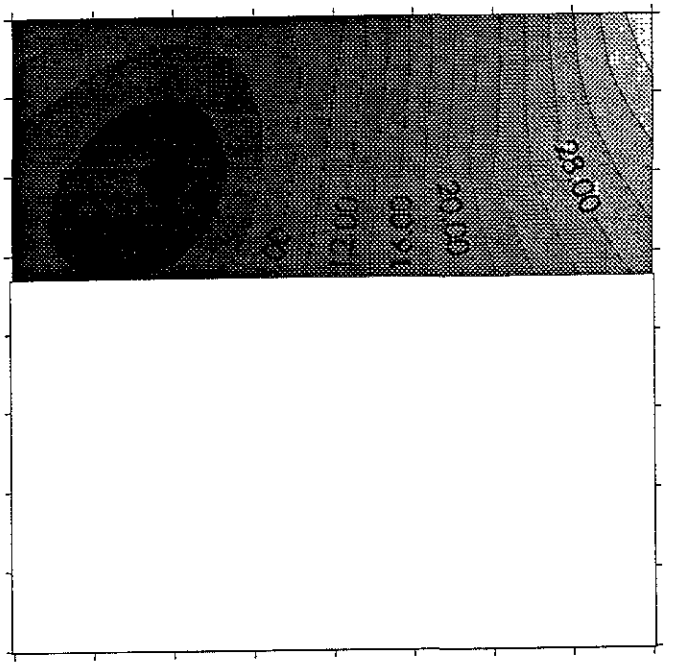
Plots are labled in pCi/g and gradation is every 2 pCi/g

ME-017248

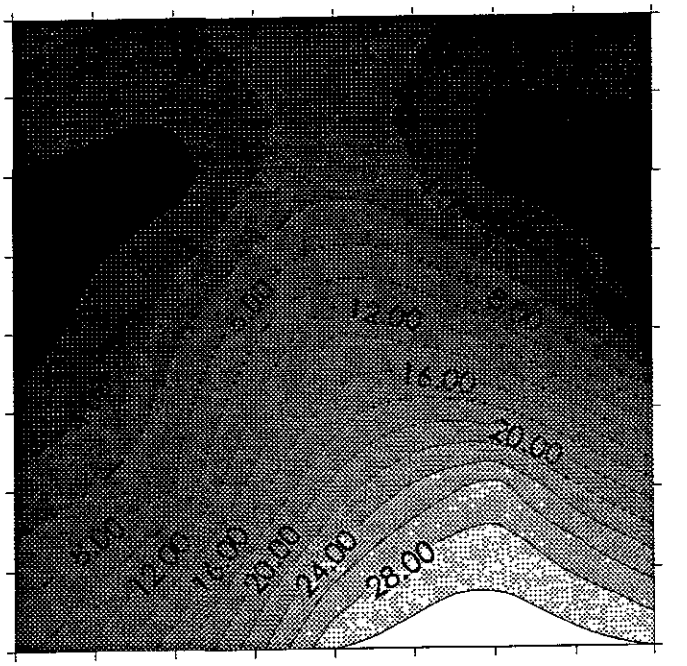
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

GRID 29, 90N 140E

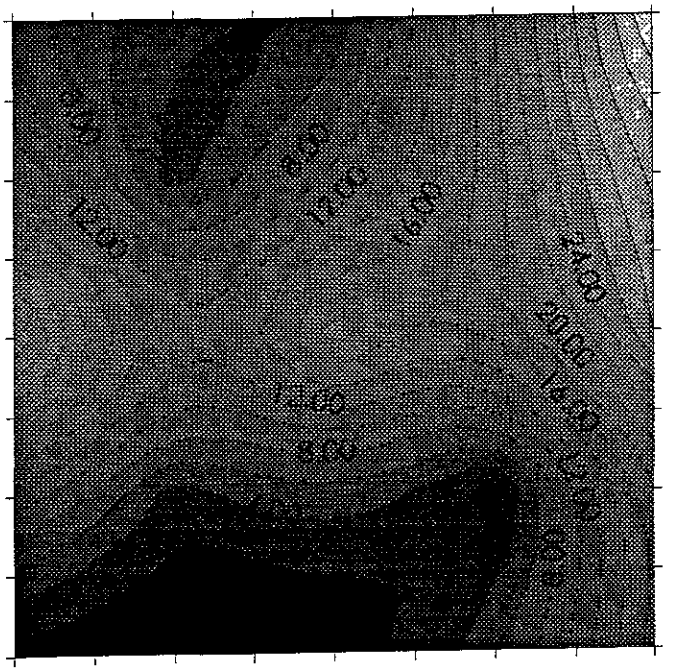


GRID 30, 90N 150E



GRID 31, 90N 160E

GRID 32, 100N 160E

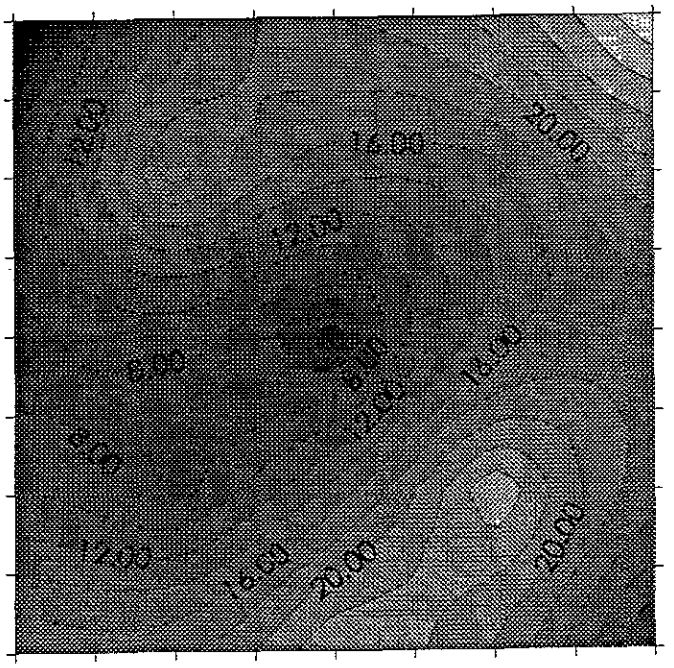


Plots are labled in pCi/g and gradation is every 2 pCi/g

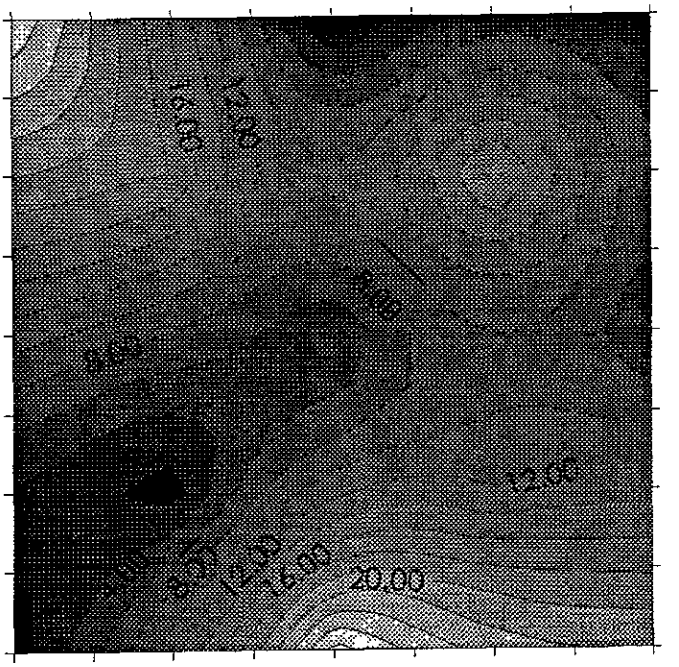
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

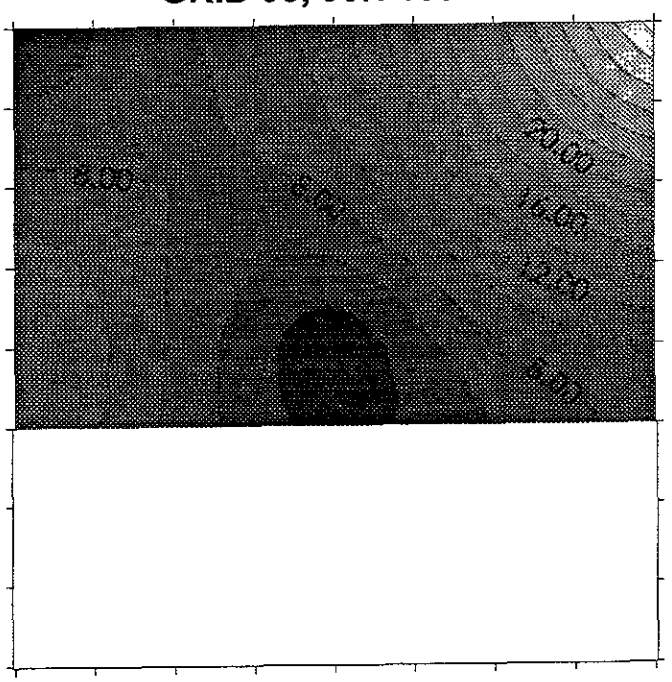
GRID 33, 90N 170E



GRID 34, 100N 170E



GRID 35, 90N 130E



GRID 36, 80N 140E

No Floor Check Samples Taken

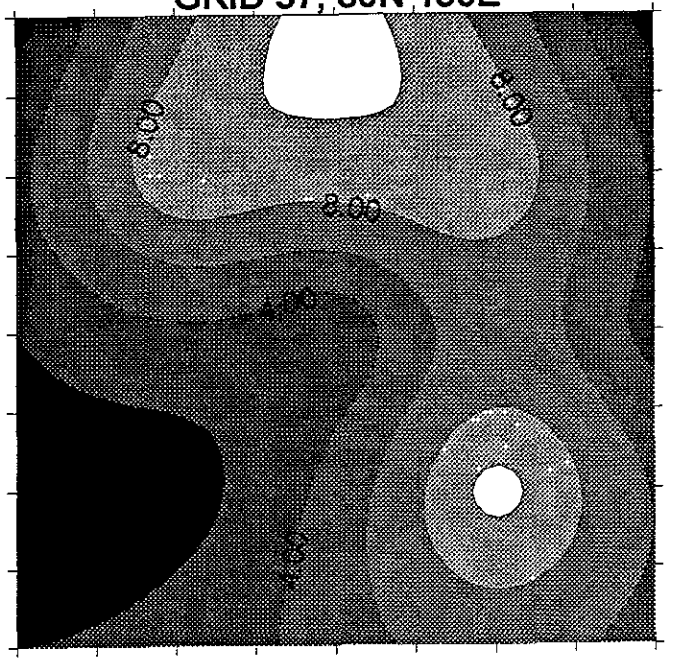
Plots are labled in pCi/g and gradation is every 2 pCi/g

ME-017250

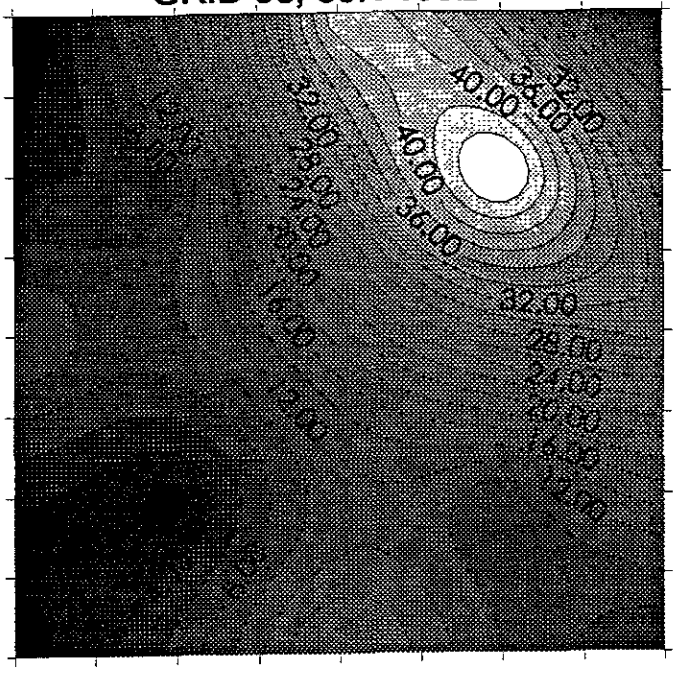
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

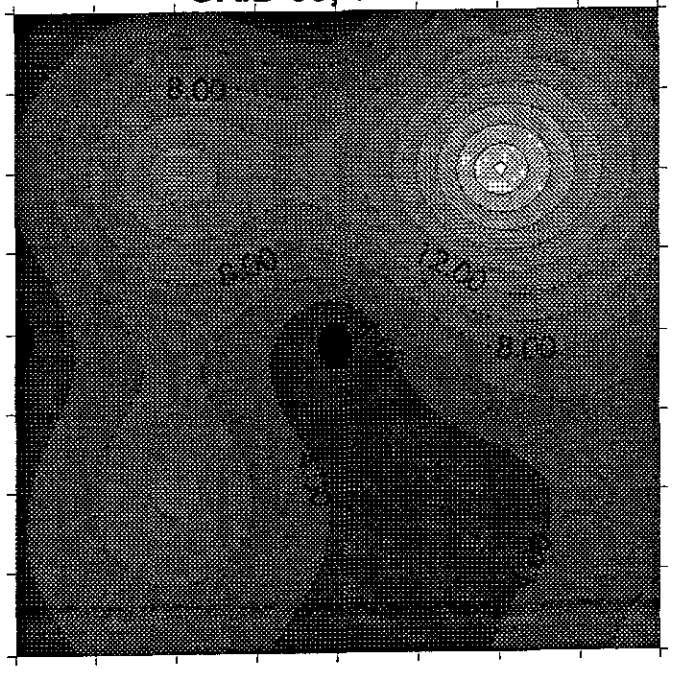
GRID 37, 80N 150E



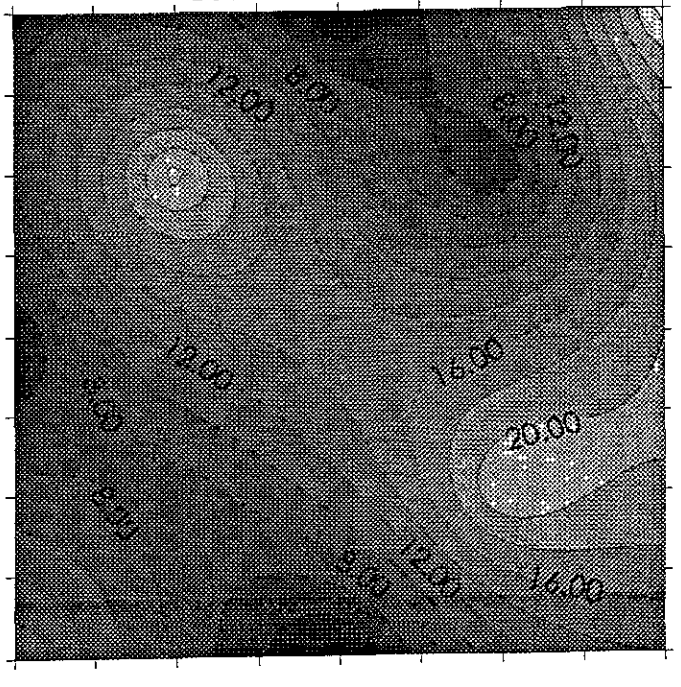
GRID 38, 80N 160E



GRID 39, 80S 70E



GRID 40 70S 70E

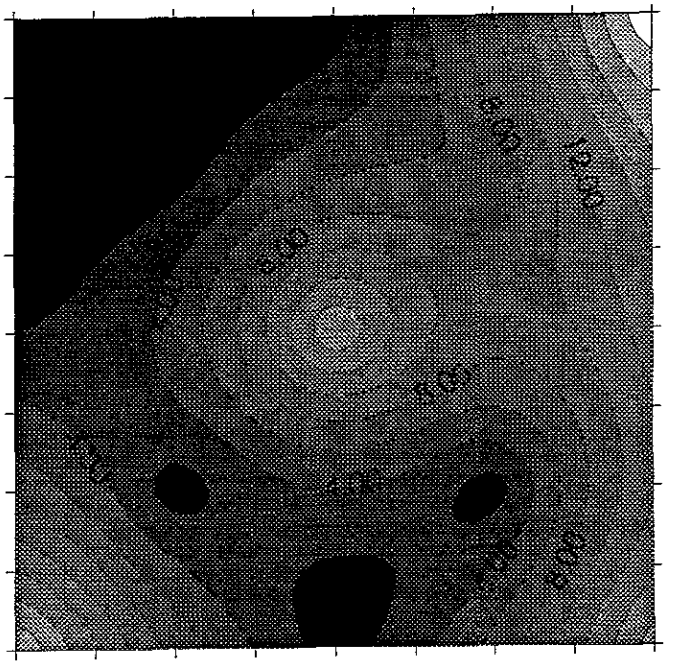


Plots are labled in pCi/g and gradation is every 2 pCi/g

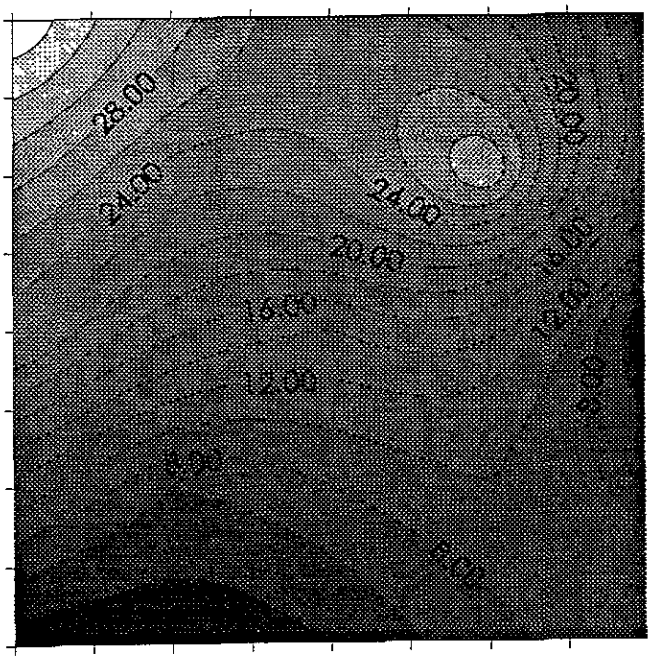
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOTS

NORTH

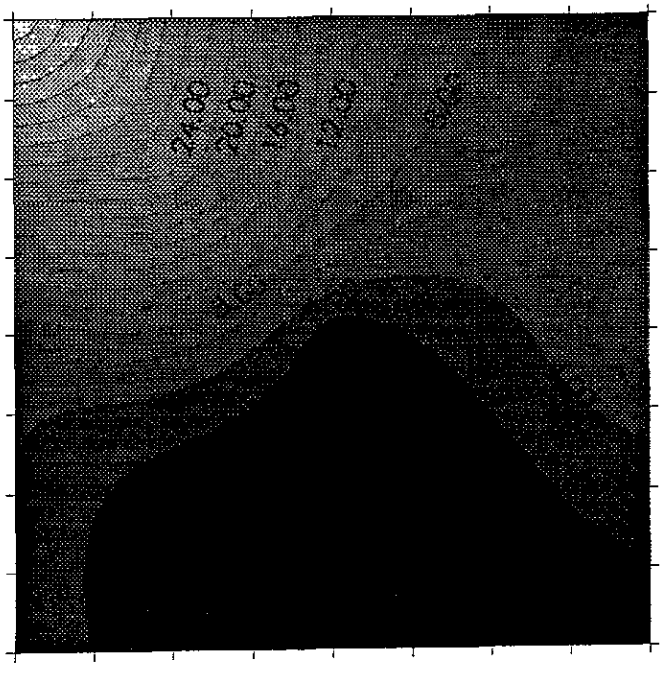
GRID 41, 60S 70E



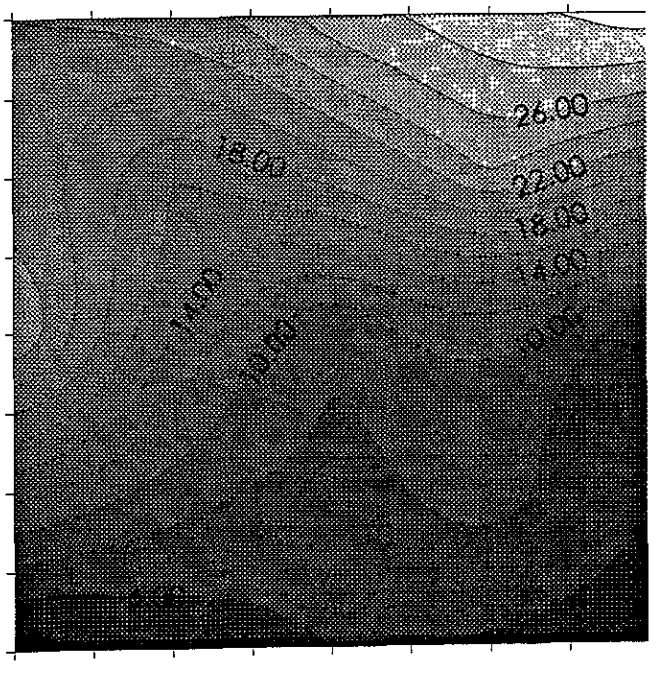
GRID 42, 70S 60E



GRID 43, 60S 60E



GRID 44, 120N 120E

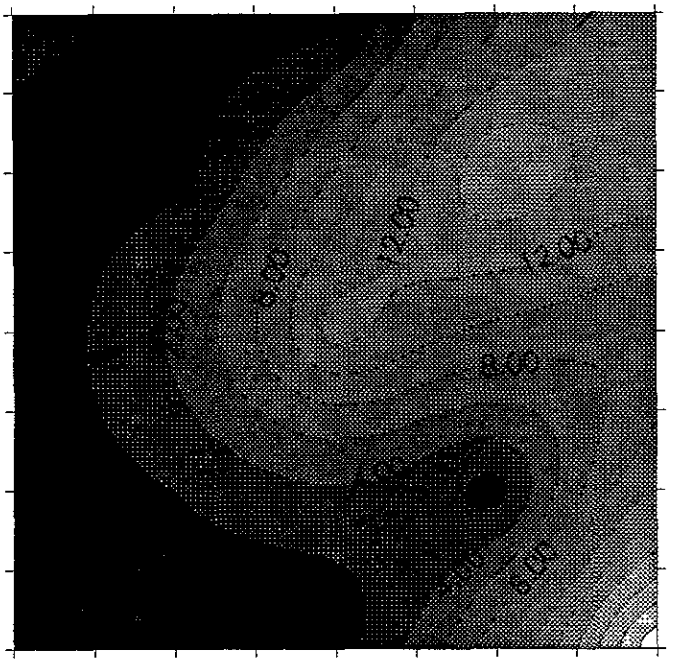


Plots are labled in pCi/g and gradation is every 2 pCi/g

POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

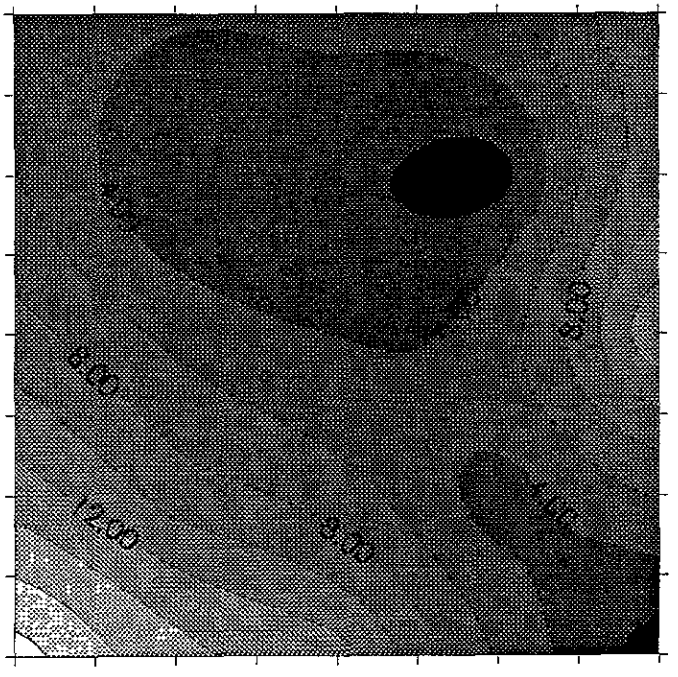
NORTH

GRID 45, 50S 70E

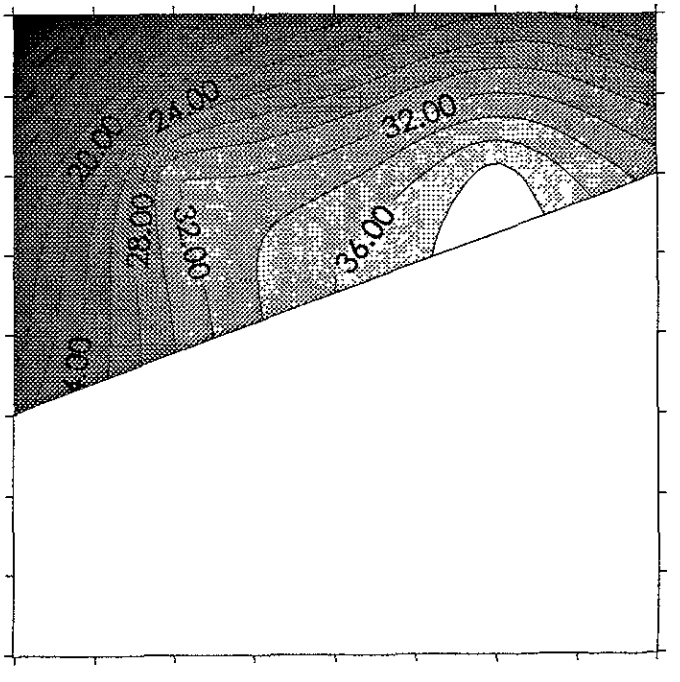


GRID 46, 40S 70E

GRID 47, 40S 60E



GRID 48, 50S 80E



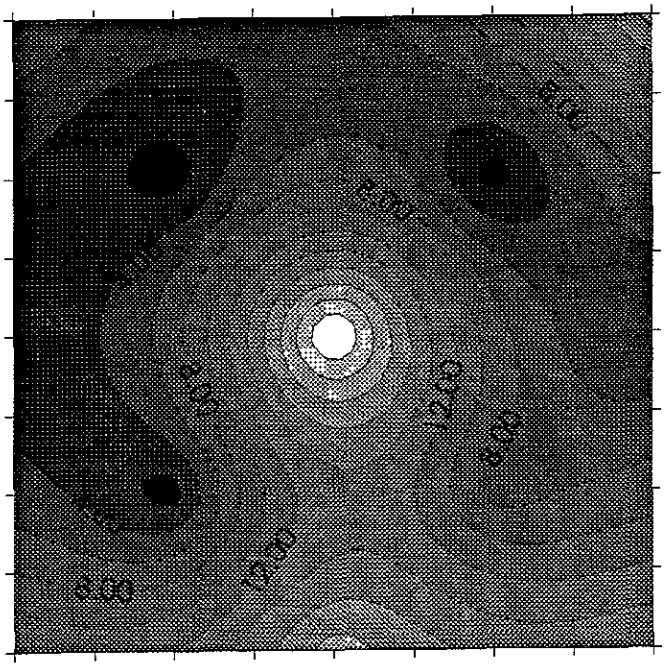
Plots are labled in pCi/g and gradation is every 2 pCi/g

ME-017253

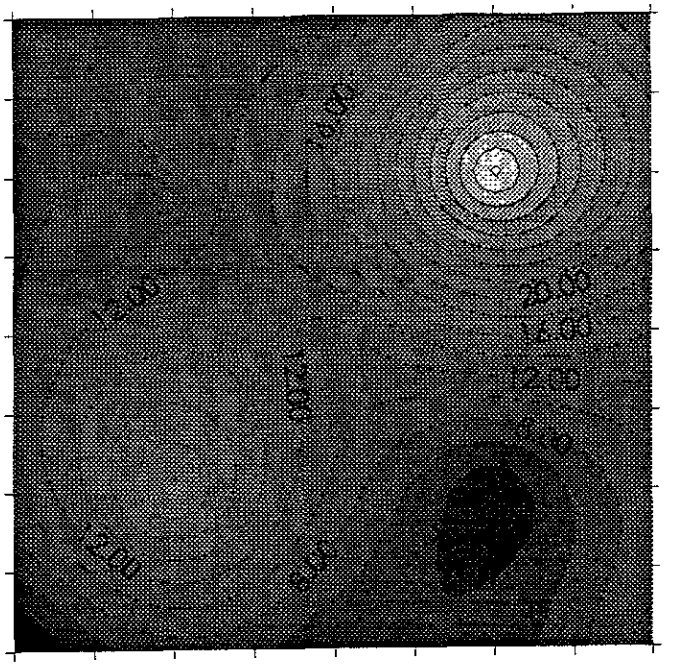
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

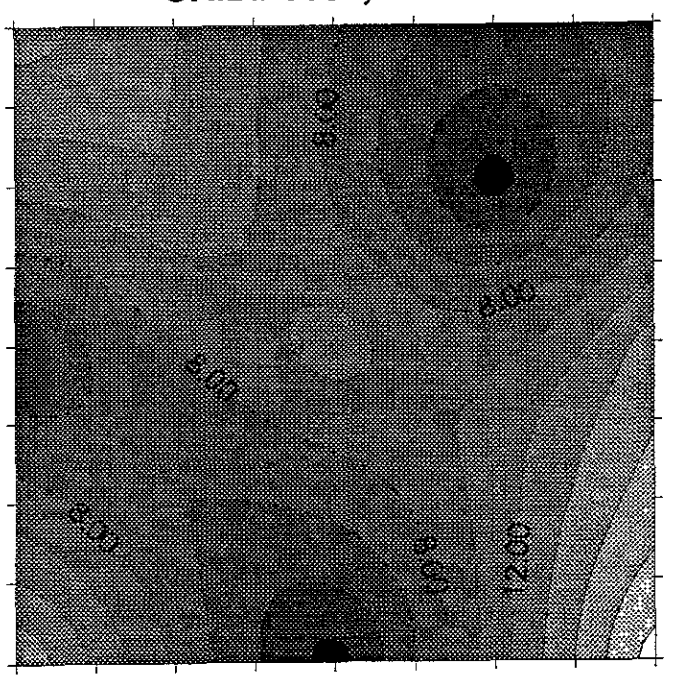
GRID# 0049, 40s 80E



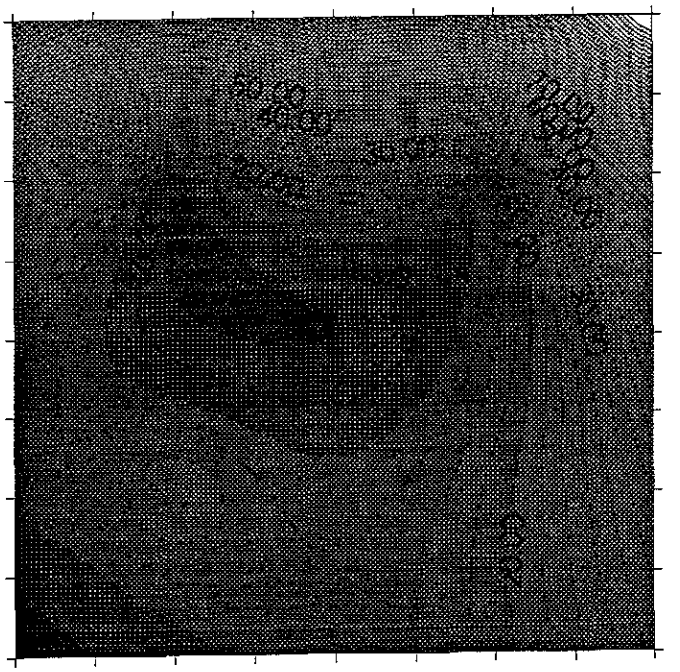
GRID# 0050, 30S 70E



GRID# 0051, 30S 80E



GRID# 0052, 30S 90E

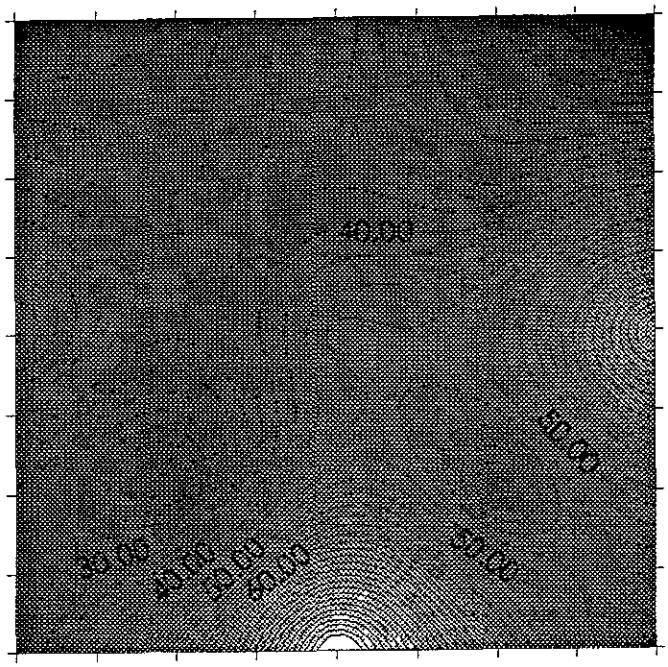


Plots are labled in pCi/g and gradation is every 2 pCi/g

POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

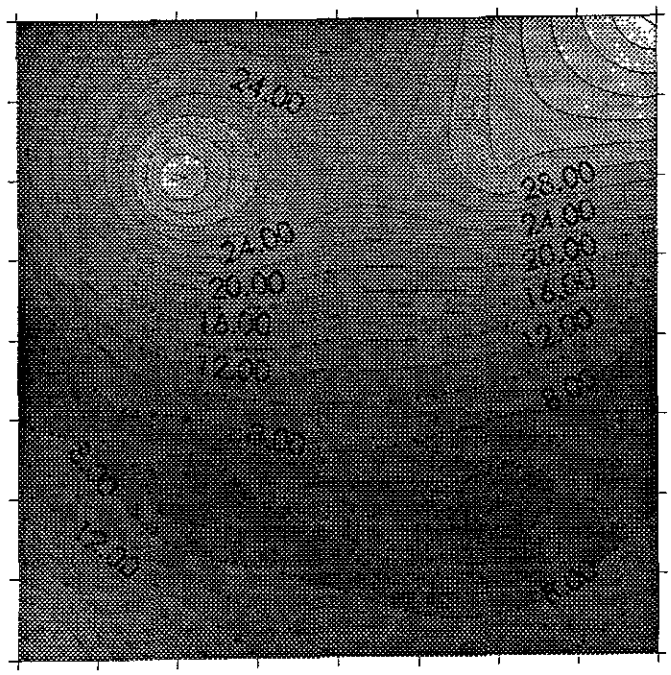
NORTH

GRID# 0053, 20S 90E

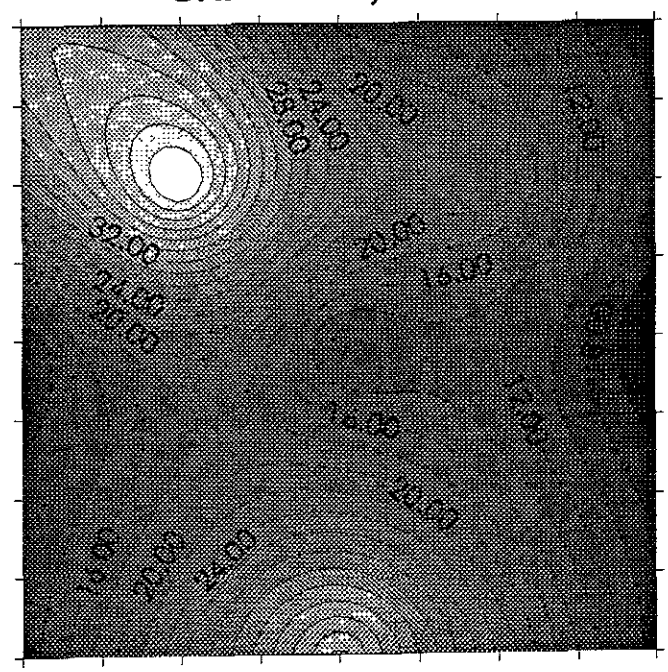


GRID# 0054, 20S 60E

GRID# 0055, 20S70E



GRID# 0056, 40S 50E

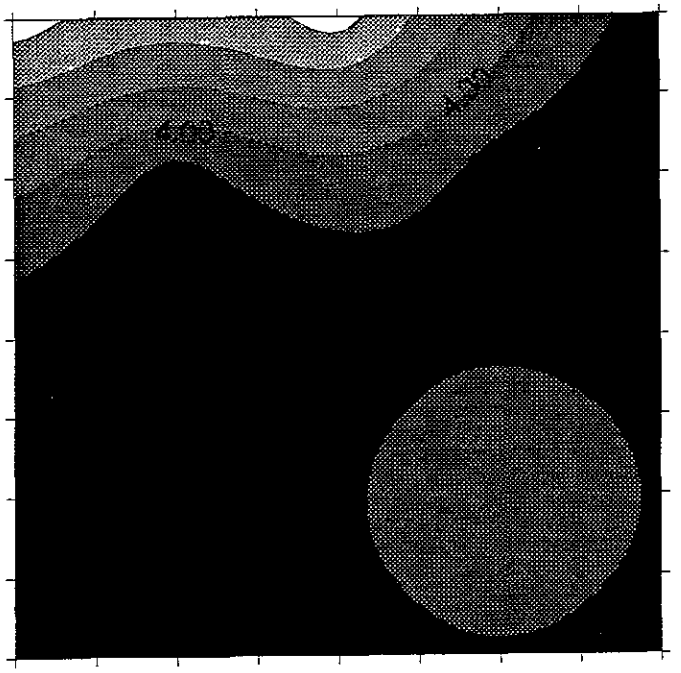


Plots are labled in pCi/g and gradation is every 2 pCi/g

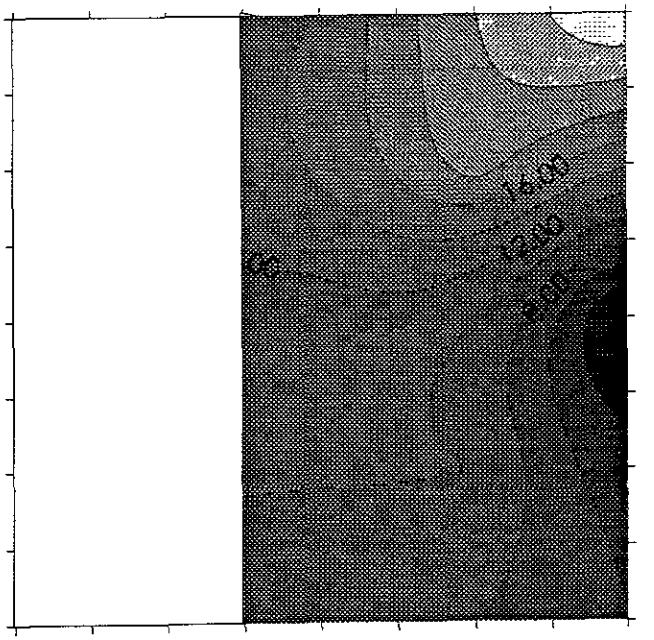
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

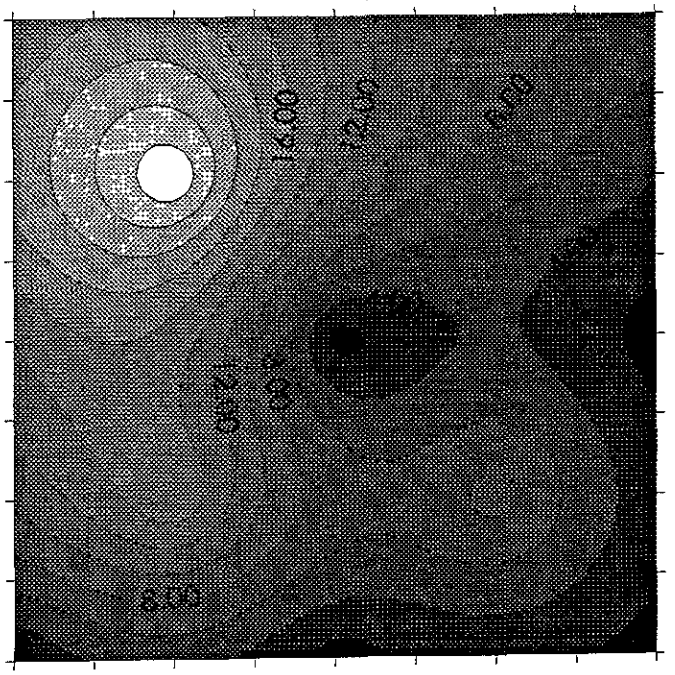
GRID# 0057, 50S 50E



GRID# 0058, 60S 50E



GRID# 0059, 80S40E



GRID# 0060, 70S 40E

Plots are labled in pCi/g and gradation is every 2 pCi/g

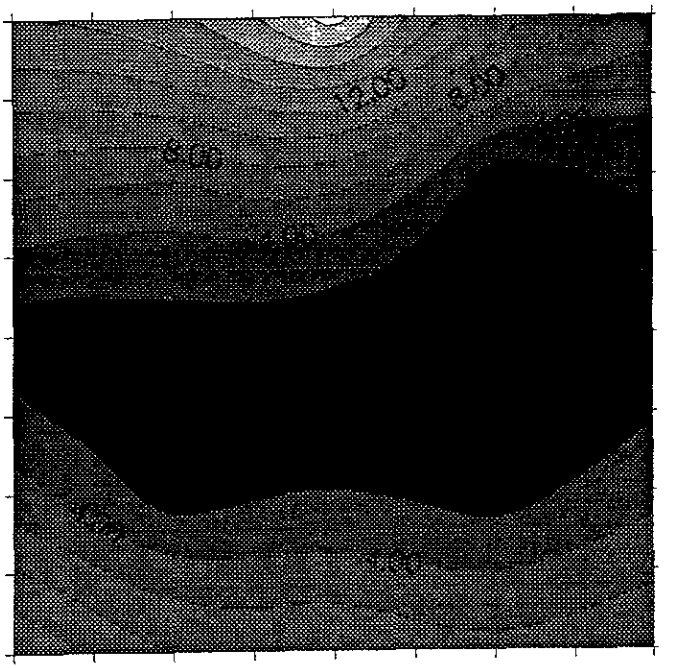
ME-017256

POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

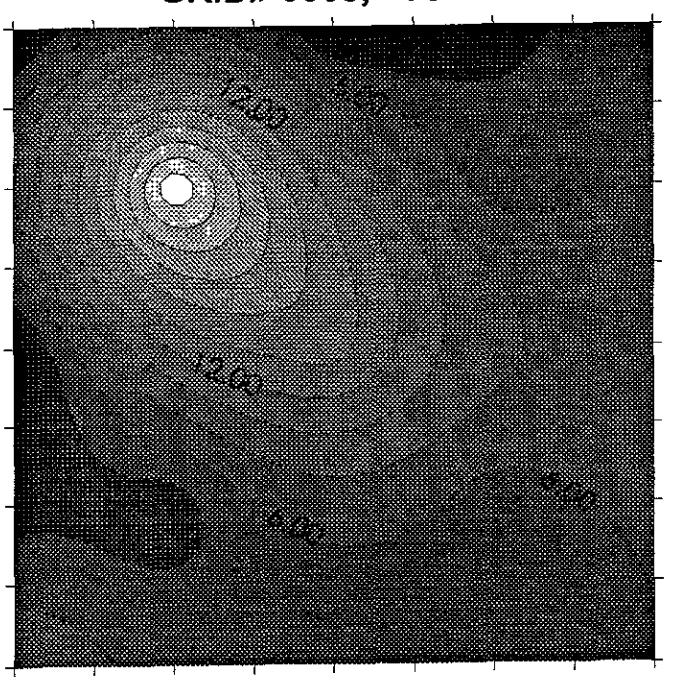
NORTH

GRID# 0061, 60S 40E

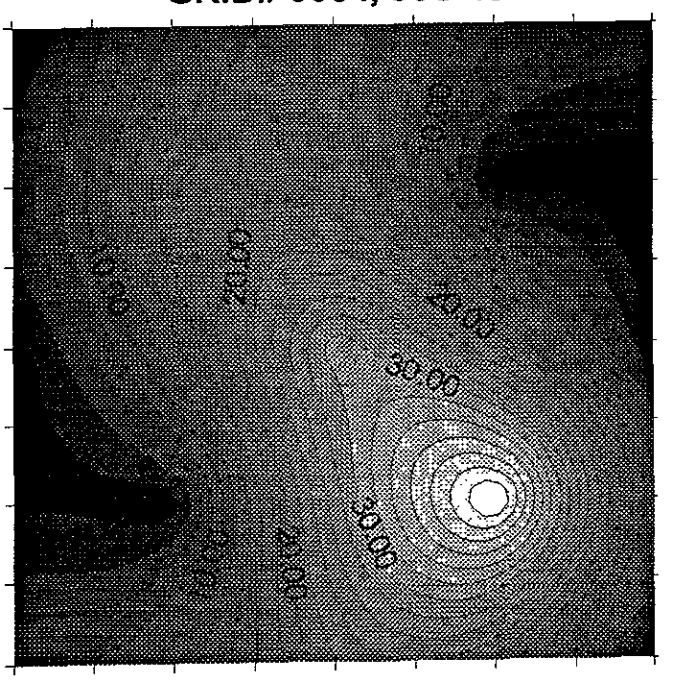
GRID# 0062, 50S 40E



GRID# 0063, 40S 40E



GRID# 0064, 30S 40E



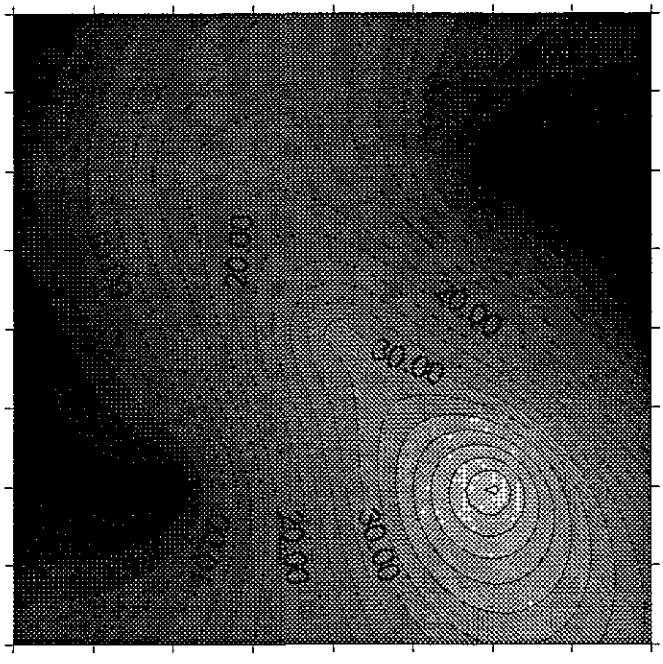
Plots are labled in pCi/g and gradation is every 2 pCi/g

ME-017257

POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

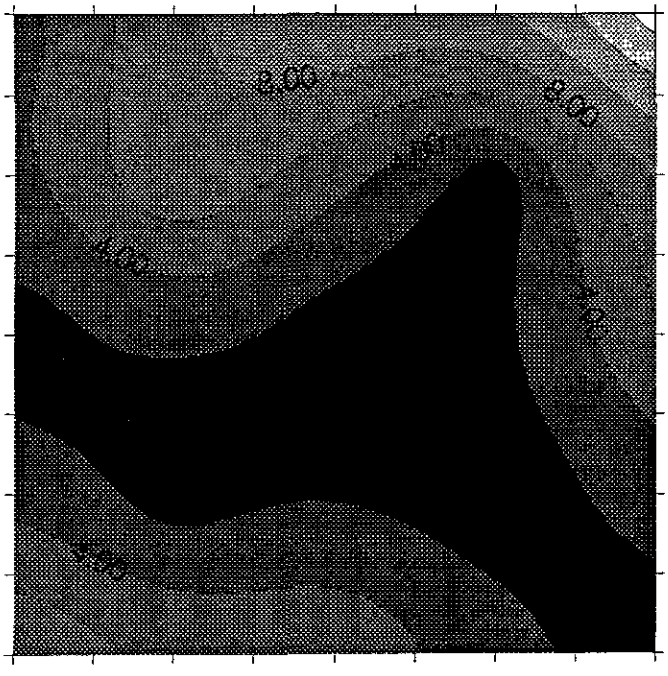
GRID# 0065, 70S 30E



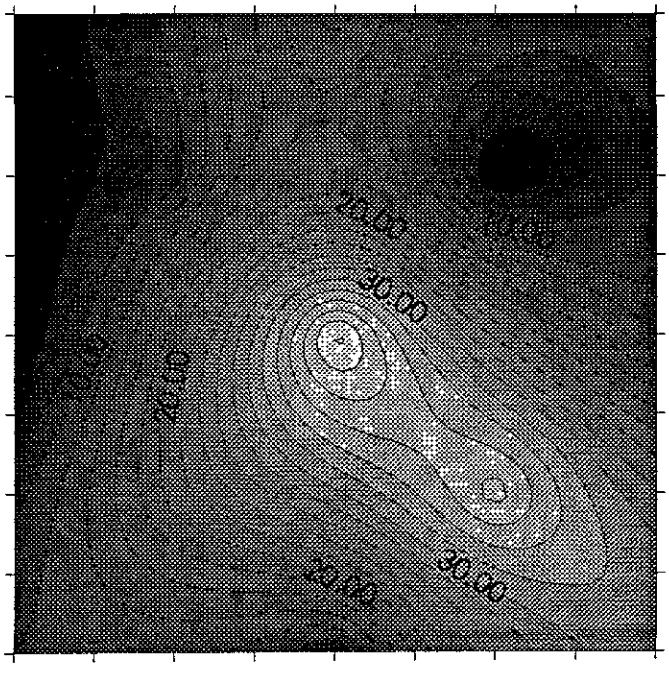
GRID# 0066, 60S 30E

All Samples In This Grid
Were < or = to 1 pCi/g

GRID# 0067, 50S 30E



GRID# 0068, 30S 30E

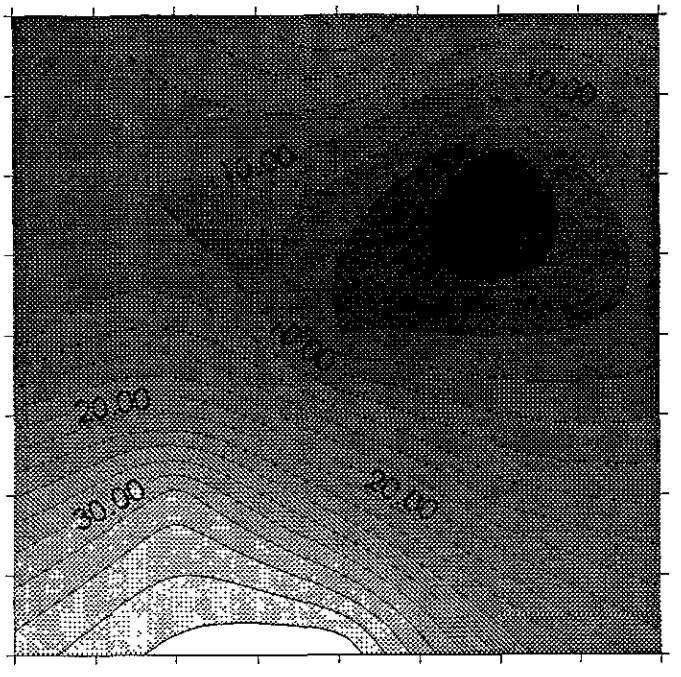


Plots are labled in pCi/g and gradation is every 2 pCi/g

POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

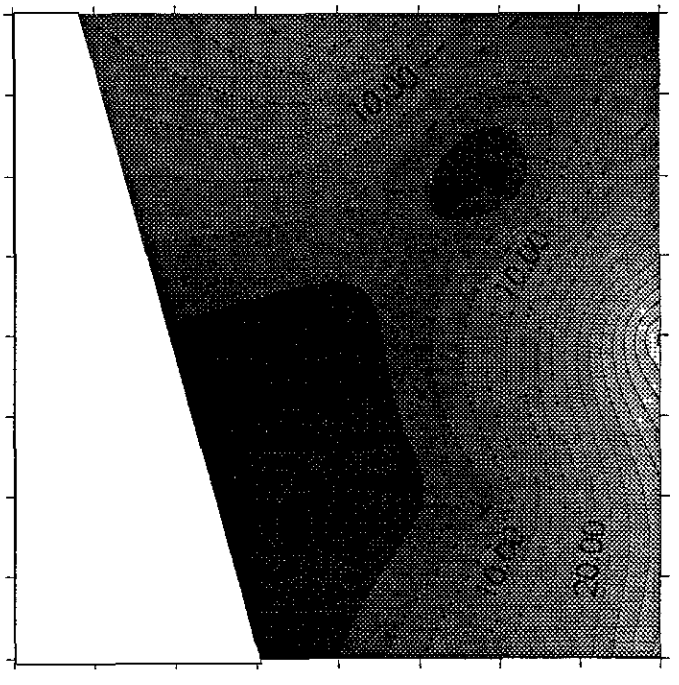
GRID# 0069, 20S 30E



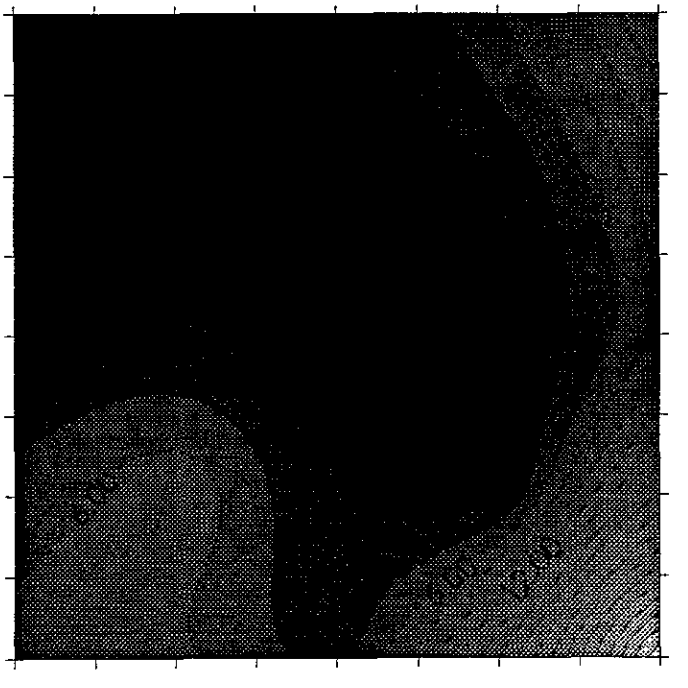
GRID# 0070, 80S 20E

No Floor Check Samples Taken

GRID# 0071, 60S 20E



GRID# 0072, 50S 20E



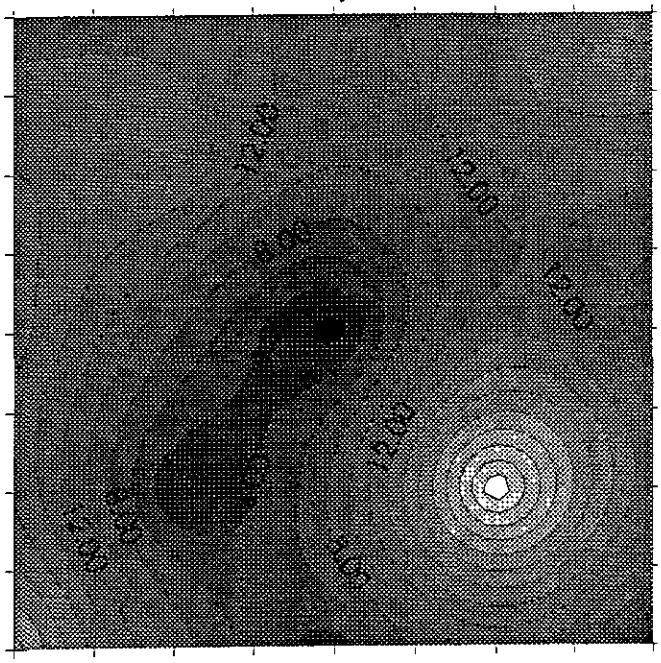
Plots are labled in pCi/g and gradation is every 2 pCi/g

POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

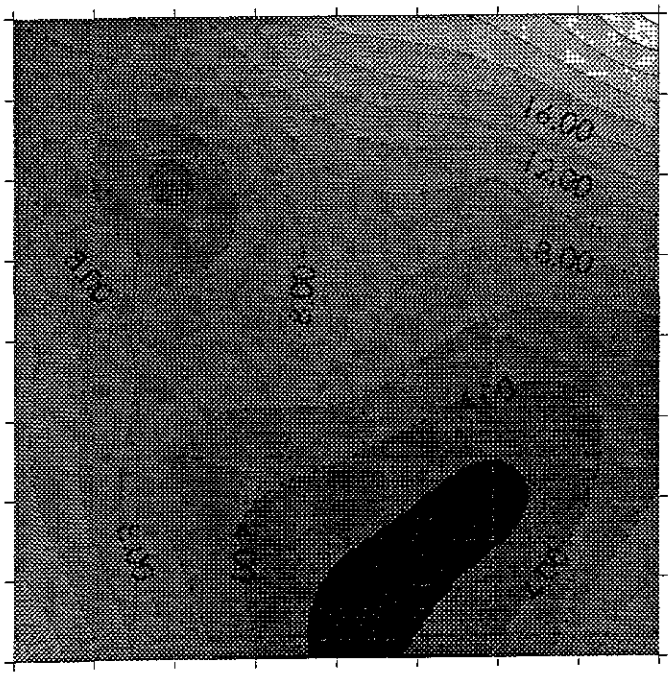
NORTH

GRID# 0073, 30S 20E

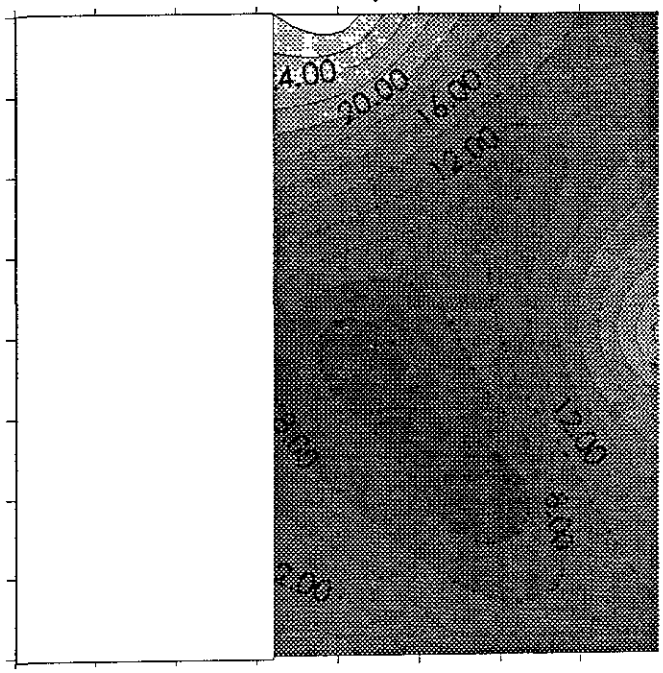
GRID# 0074, 30S 10E



GRID# 0075, 20S 10E



GRID# 0076, 20S 0E

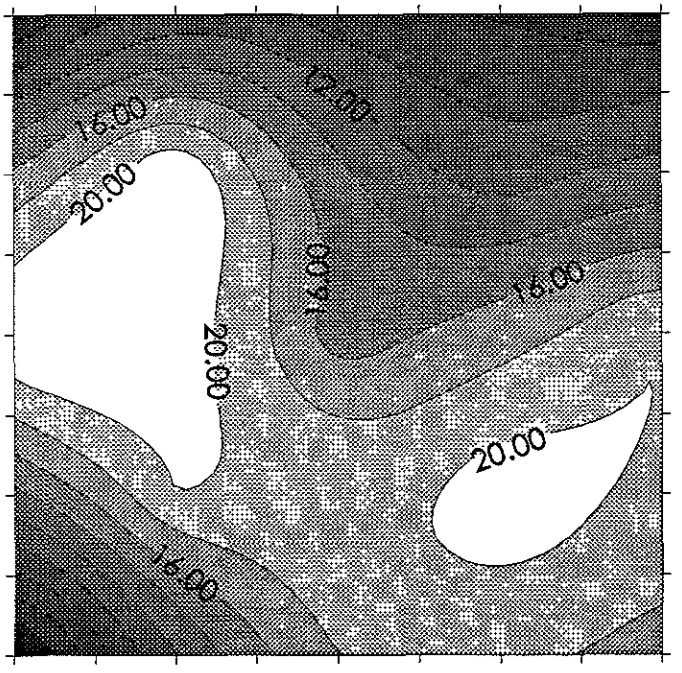


Plots are labled in pCi/g and gradation is every 2 pCi/g

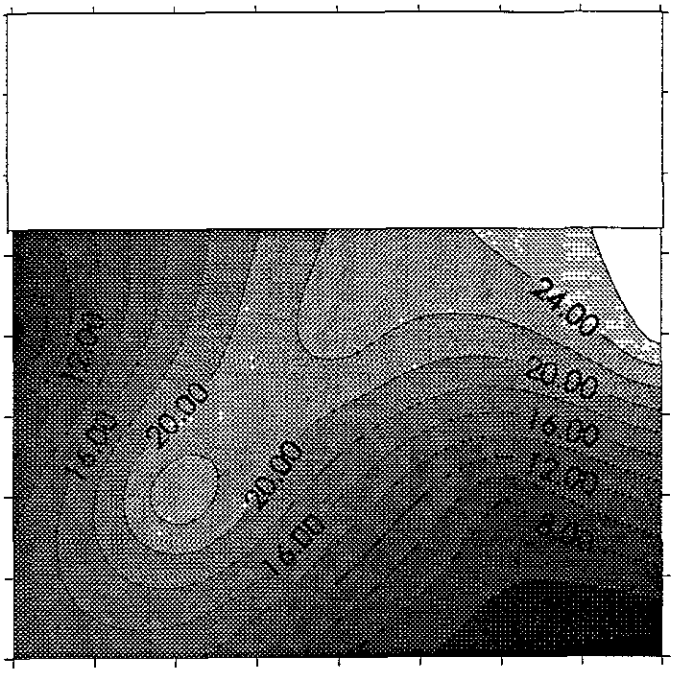
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

GRID# 0077, 30S 130E

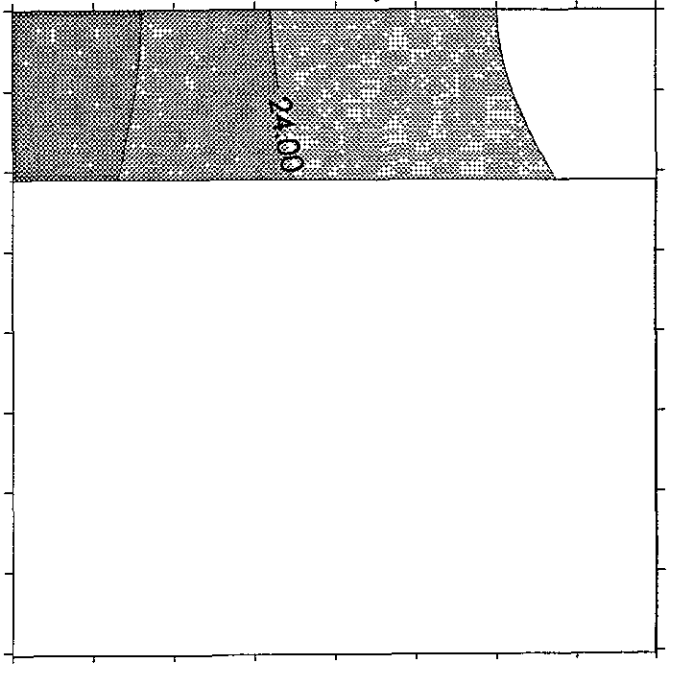


GRID# 0078, 130S 120E



GRID# 0079, 130S 130E

GRID# 0080, 60S 80E



Plots are labled in pCi/g and gradation is every 2 pCi/g

ME-017261

POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

GRID# 0081, 70N 140E

No Floor Check Samples Taken

GRID# 0082, 70N 150E

No Floor Check Samples Taken

GRID# 0083, 70N 160E

No Floor Check Samples Taken

GRID# 0084, 80N 170E

No Floor Check Samples Taken

Plots are labled in pCi/g and gradation is every 2 pCi/g

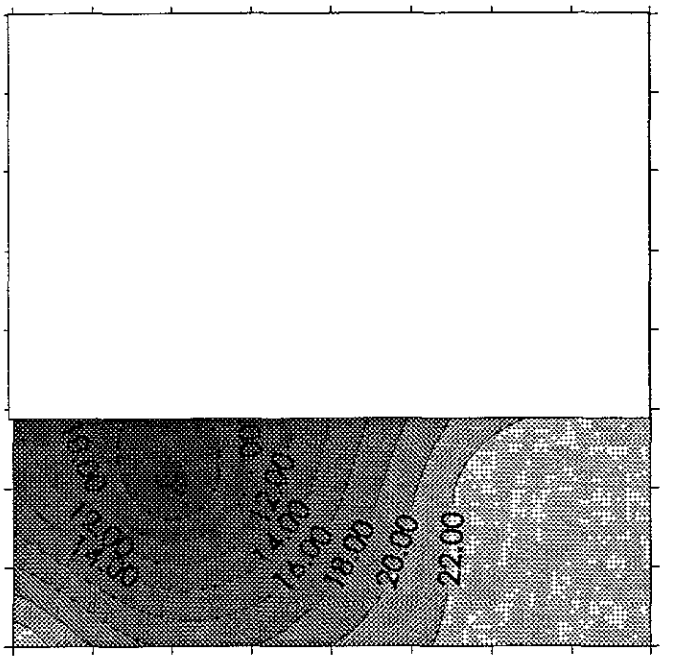
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

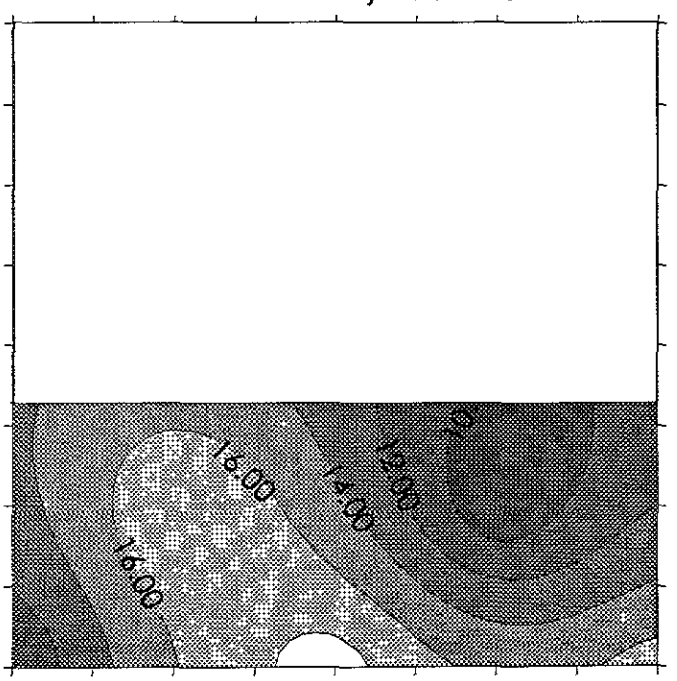
GRID# 0085, 10S 80E

No Floor Check Samples Taken

GRID# 0086, 20S 120E



GRID# 0087, 20S 130E



GRID# 0088, 20S 140E

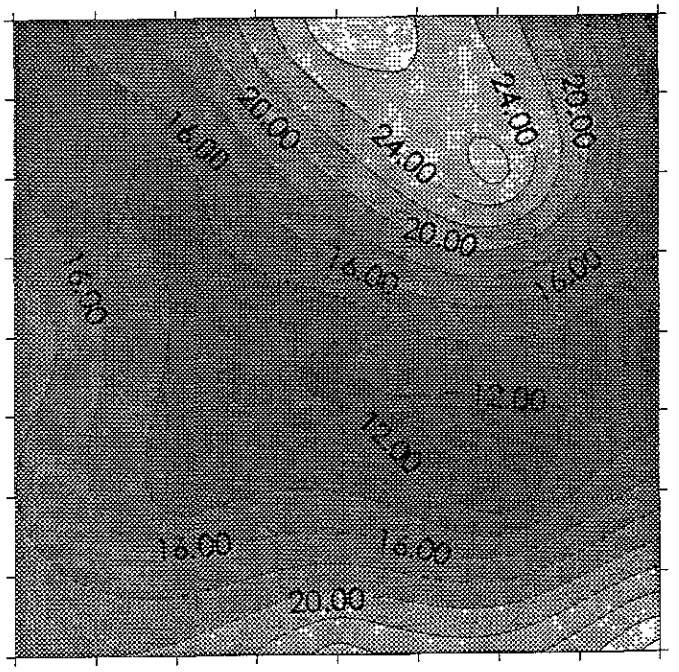
No Floor Check Samples Taken

Plots are labled in pCi/g and gradation is every 2 pCi/g

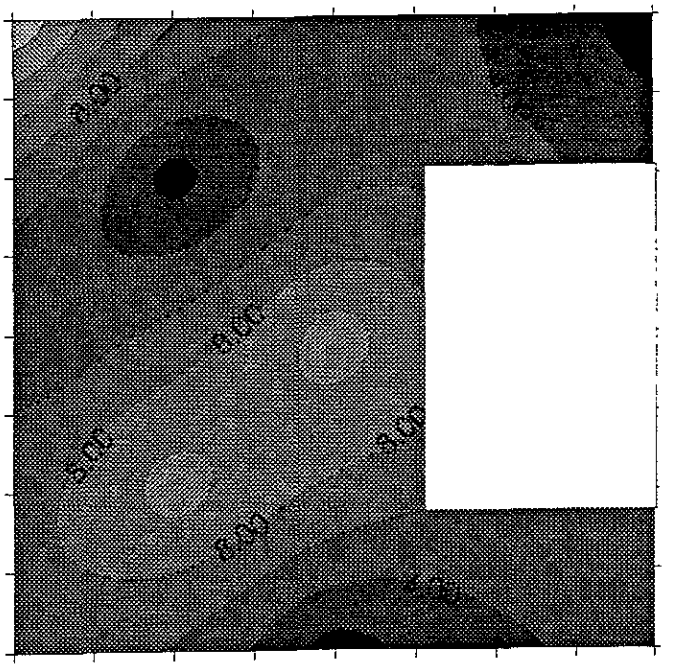
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

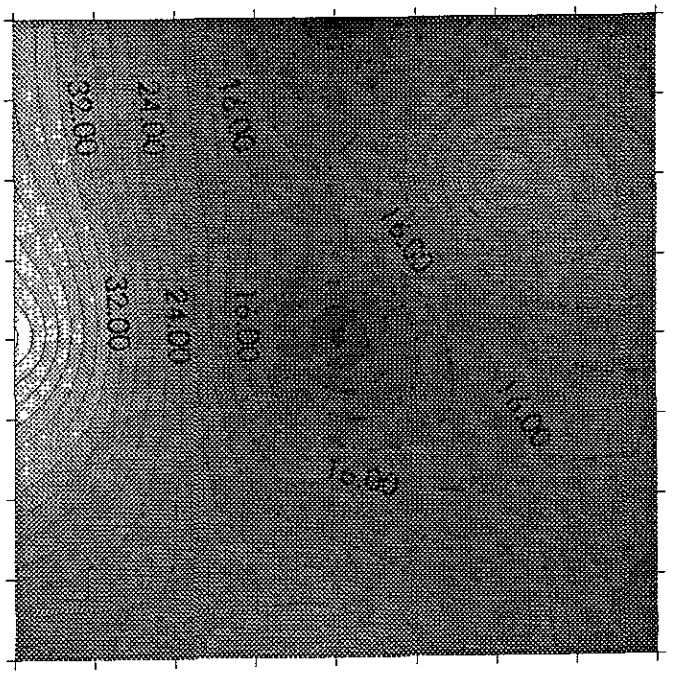
GRID# 0089, 30S 120E



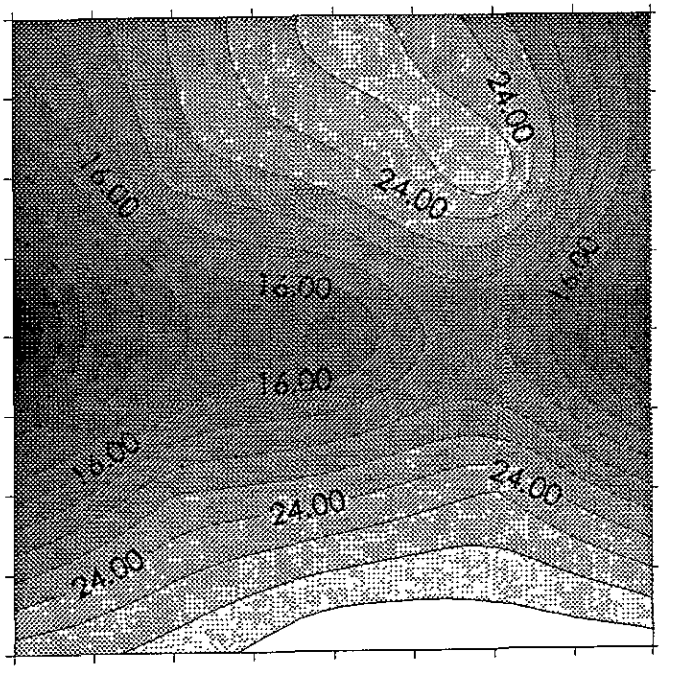
GRID# 0090, 30S 140E



GRID# 0091, 40S 120E



GRID# 0092, 40S 130E

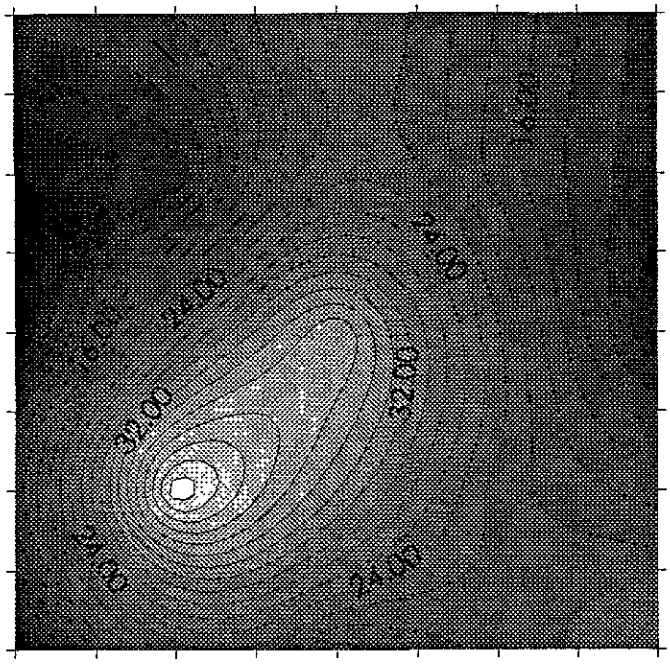


Plots are labled in pCi/g and gradation is every 2 pCi/g

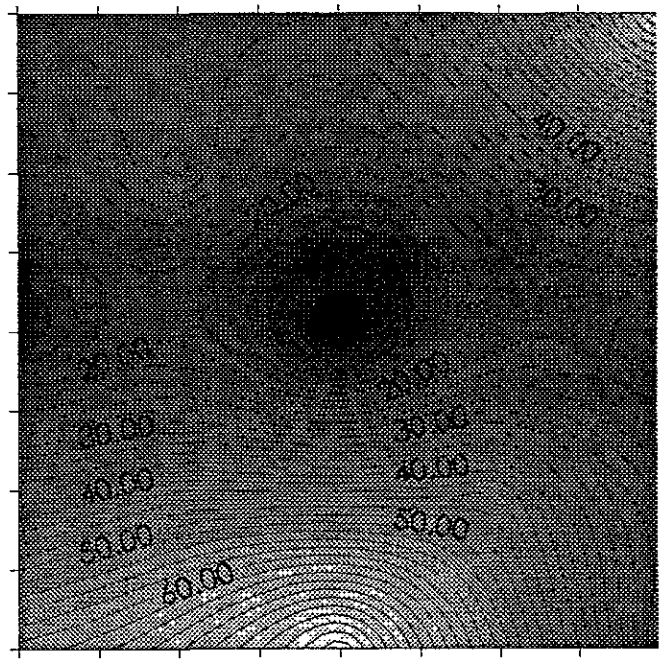
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOTS

NORTH

GRID# 0093, 40S 140E



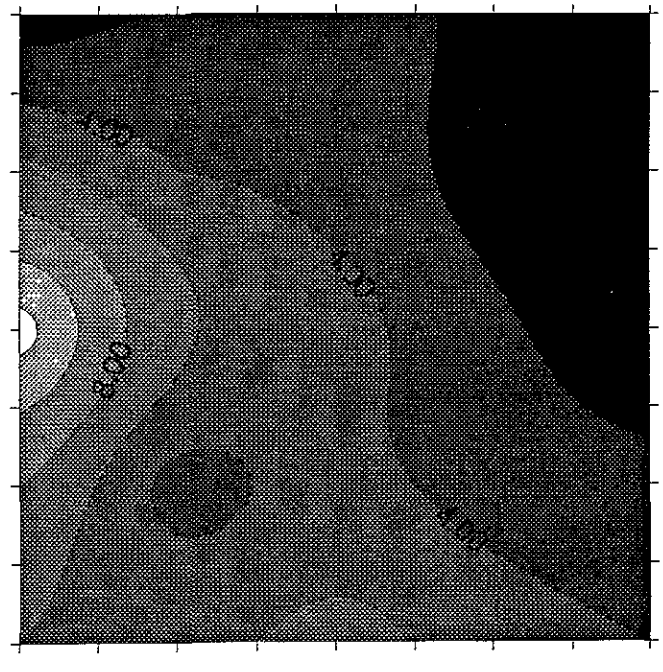
GRID# 0094, 10S 90E



GRID# 0095, 10S 70E

No Floor Check Samples Taken

GRID# 0096, 40S 30E

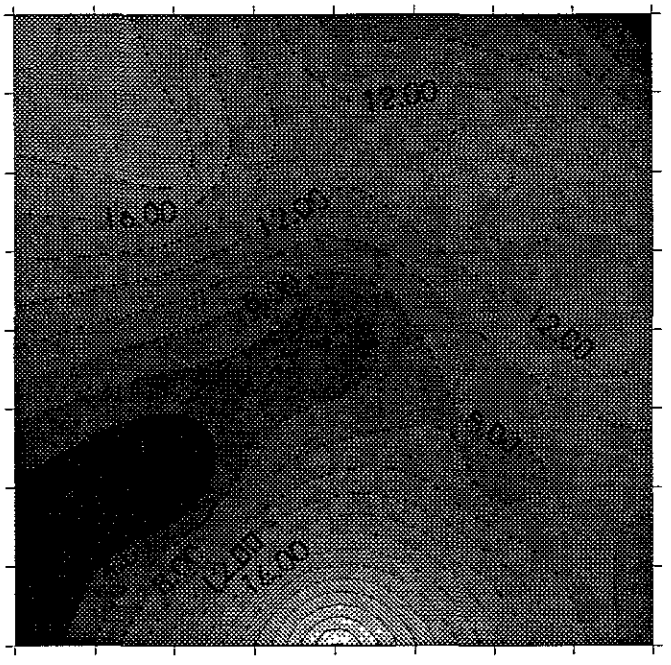


Plots are labled in pCi/g and gradation is every 2 pCi/g

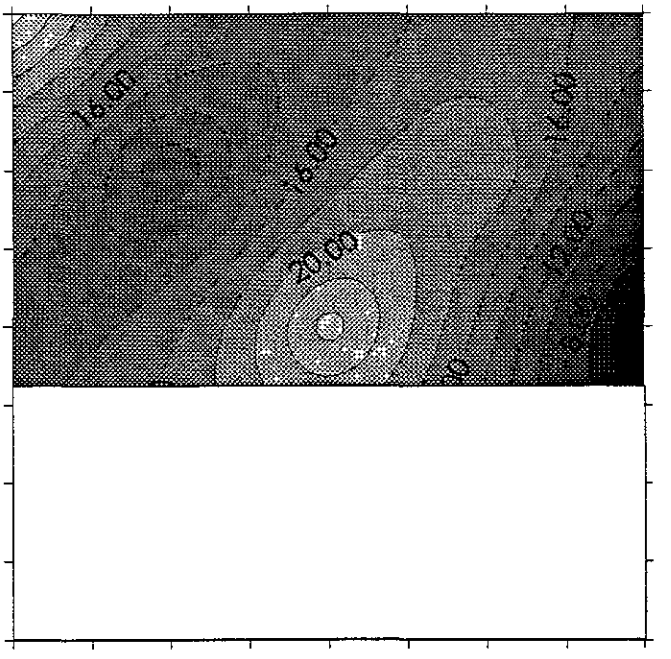
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

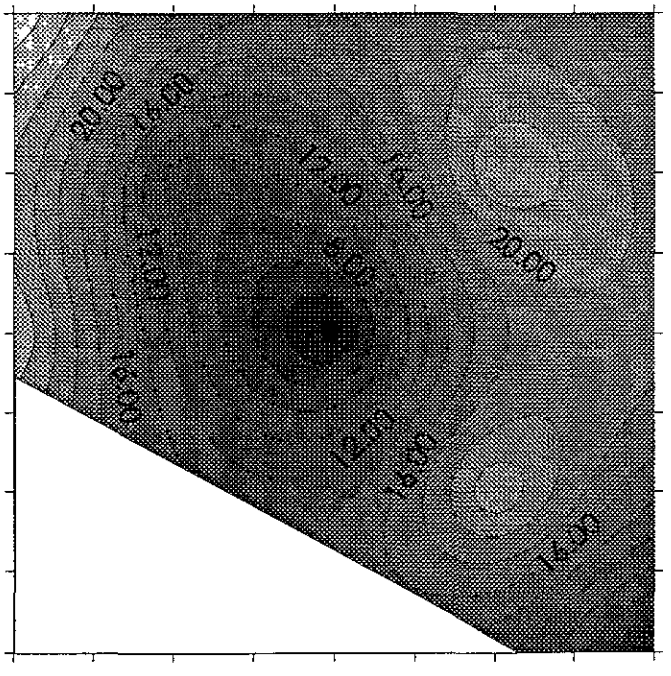
GRID# 0097, 40S 20E



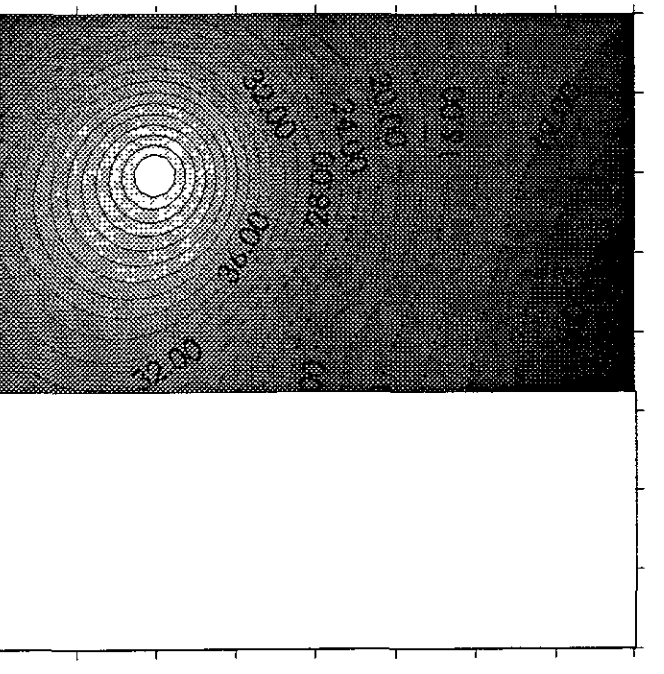
GRID# 0098, 50S 120E



GRID# 0099, 40S 140E



GRID# 0100, 50S 140E



Plots are labled in pCi/g and gradation is every 2 pCi/g

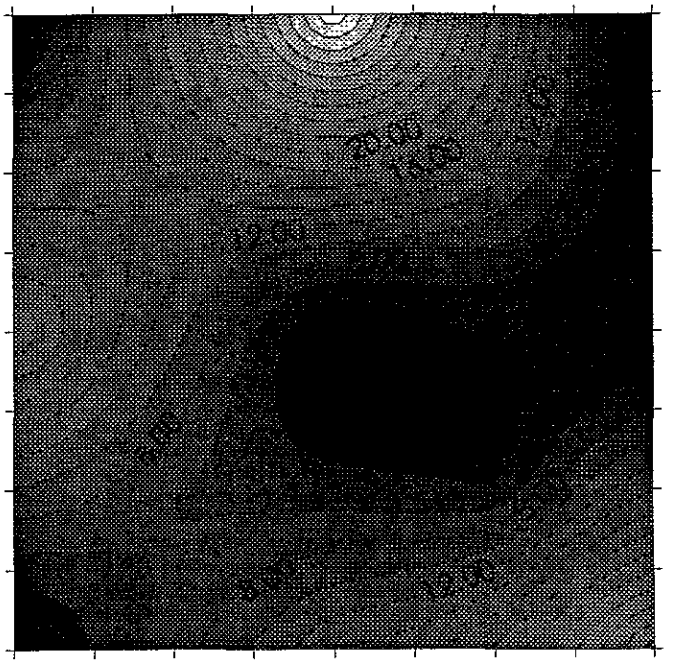
POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

NORTH

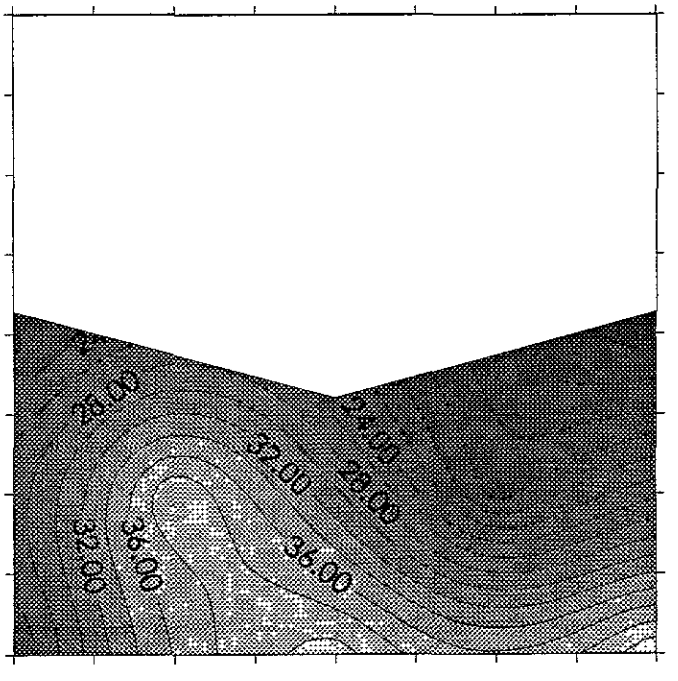
GRID# 0101, 50S 150E

No Floor Check Samples Taken

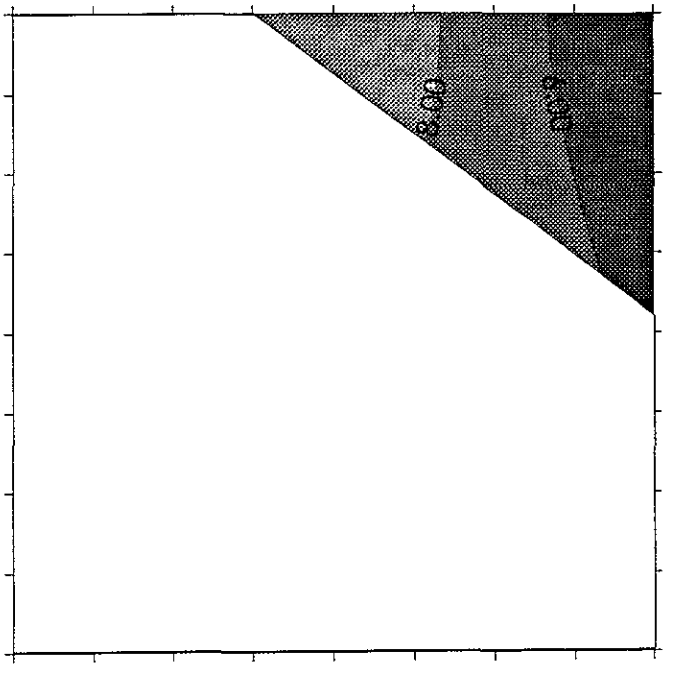
GRID# 0102, 20S 20E



GRID# 0103, 20S 40E



GRID# 0104, 70S 20E



Plots are labled in pCi/g and gradation is every 2 pCi/g

POST REMEDIATION
URANIUM CONTAMINATION CONCENTRATION CONTOUR PLOT

GRID# 0105, 40S 10E

2 Check Samples Collected
Insufficient to Plot

Plots are labled in pCi/g and gradation is every 2 pCi/g