Final Report
Addendum

United States Military Academy
Village Farm Landfill Remediation
West Point, New York

Prepared for:

U.S. Army Corps of Engineers
Omaha District
Building 525, Castle Hall
Offutt AFB, Nebraska 68113

Prepared by:

IT Corporation
140 Allens Creek Road
Rochester, New York 14618

Project No. 776182

January 1999

Table of Contents

List of Tables

List of Figures

List of Appendices

1.0 Introduction

This summary addendum presents activities performed during the United States Military Academy (USMA), Village Farm Landfill Remediation Project, under Contract Number DACW45-94-D-0054, Delivery Order Number 19, at West Point, New York. Activities associated with the Village Farm Landfill Remediation Project were performed during four Phases of work occurring periodically from December 18, 1996 through November 5, 1998. See USACE Scope of Work in Appendix A for project objectives.

The four Phases of work performed at the Village Farm Landfill consisted of the following:

- Phase I: Determine Village Farm Landfill dimensions and associated volumes of waste material by excavating nineteen test pits and calculating results.
- Phase II: Perimeter drainage improvement and temporary landfill cover grading, grooming, and reseeding.
- Phase III: Excavation of all waste material from Village Farm Landfill and consolidation of associated waste into the Cragston Landfill.
- Phase IV: Concrete pad construction and compressed gas cylinder characterization and disposal.

2.0 Project Activities

2.1 Phase I: Determining Village Farm Landfill Dimensions for Waste Removal

Project activities commenced December 18, 1996 when International Technology Corp (IT) performed a series of test pit excavations at the Village Farm Landfill site to establish landfill dimensions and associated volumes of waste material. Nineteen test pits were excavated using a John Deere 510B backhoe with results indicating that the landfill contained approximately 2000 cubic yards of waste material. See Visual Classification of Soils Logs in Appendix B for test pit details. See test pit photographs in Appendix C. See Village Farm Landfill Test Pit Survey Map and Village Farm Landfill Assumed Fill Area Map in Appendix D for test pit locations and extent of waste material. Following test pit excavation the pits were backfilled and straw was placed over the backfill for erosion control.

The project site was demobilized on December 19, 1996.

2.2 Phase II: Drainage Improvements and Temporary Landfill Cover Grading at Village Farm

Phase II activities occurred during the period June 4, through June 6, 1997. The USACE OSR, a West Point representative, two IT operators, and the IT Project Manager were on site for this phase of work.

During this phase of work a drainage trench was excavated using a John Deere 490E excavator at the up gradient perimeter and across the width of the Village Farm Landfill perpendicular to grade and sheet water flow. This trench was excavated to prevent surface erosion caused by surface water sheet flow across the existing temporary landfill cover. The trench excavation measured approximately four feet wide by three feet deep.

Following excavation a non-woven geotextile style fabric was placed on the slopes and floor of trench. A layer of riprap was then placed on the geotextile fabric to stabilize the trench walls, eliminate erosion due to drainage flow and to prevent vegetative growth. It performed several additional perimeter drainage enhancements to improve overall drainage conditions at the Village Farm Landfill site.

The entire landfill area was then regraded, resloped and groomed using both the John Deere 490E excavator and a John Deere 550G LGP dozer. The temporary landfill cover was then seeded and mulched.

The project site was demobilized on June 6, 1997.

2.3 Phase III: Excavation of Debris from Village Farm Landfill and Consolidation of Debris into Cragston Landfill

In an IT memorandum dated October 22, 1997 the area that would receive waste at the Cragston Landfill from the Village Farm Landfill was calculated and drawn. See Drawing No. F-833-90-10 and memorandum in Appendix D for additional details.

Mobilization occurred the week of August 2, 1998 when an IT Site Supervisor, two technicians, and two operators arrived on site.

Erosion control measures were installed at both the Cragston Landfill and the Village Farm Landfill prior to excavation by placing silt fence and hay bales around staging areas and down gradient from excavation operations. Traffic control signage was posted at the entry points of both locations and along affected roadways.

Initial removal activities consisted of peeling away the Cragston Landfill soil cover using a John Deere 850C LGP dozer and preparing the area for waste consolidation from the Village Farm Landfill. The relocation of Village Farm Landfill waste to the Cragston Landfill was approved by the New York State Department of Environmental Conservation (NYSDEC) in a letter dated November 14, 1997 at the request of the USMA. See NYSDEC letter in Appendix F for additional details.

Waste material was excavated from the Village Farm Landfill using a Kobelco SK 300LC excavator and was loaded into 20 ton capacity tri-axle, dump body trucks using a John Deere 621B articulated wheel loader. The material was then transported and staged at Cragston Landfill in 250 cubic yard piles. Each pile was then sampled for TCLP lead and total lead. Once analytical results determined that the material was not above regulatory levels for lead the waste piles were consolidated into the Cragston Landfill. All sample results were below regulatory limits for lead. See sample designations VFC in Table 1 for additional details. Complete analytical results can be reviewed in Appendix E.

Upon confirmation from associated soil analytical results metal debris was sent to the transfer station and stacked into containers. Old tires were placed in a dumpster and sent to the USMA transfer station. Following waste material placement, the cover at the Cragston Landfill was replaced, regraded and compacted using track equipment. The entire area was then seeded and mulched. See photographic log in Appendix C for site activities.

Groundwater which had infiltrated into the Village Farm Landfill open excavation was sampled, characterized, and then transported by USMA personnel to the USMA public

owned treatment works (POTW) for disposition. See sample VF-1 in Table 1 for additional details. See analytical results in Table 1.

Following the removal of approximately 2000 cubic yards of waste material from the Village Farm Landfill the floor and walls of the excavation were sampled for total lead. Closure sample designations VFE and VFS were collected from the excavation sidewalls of the Village Farm Landfill and VFB closure sample designations were collected from the bottom of the completed excavation at the Village Farm Landfill. See analytical results in Table 1, and Appendix E for details.

Following review of analytical data, which indicated results were below regulatory limits, the entire site was then backfilled and track equipment compacted. A minimum of twelve inches of backfill was placed and compacted at the Cragston Landfill following waste material consolidation. Backfill was provided by the USMA. The Village Farm Landfill was then regraded, seeded and mulched. A foot bridge was also constructed over the drainage trench which had been installed during Phase II activities.

A concrete pad was also demolished and was sent to the USMA transfer station. A set of bleachers was also removed from the Village Farm Landfill cover but remained on site for future placement .

The site was demobilized on September 4,1998.

2.4 Phase IV: Concrete Pad Construction and Compressed Gas Cylinder Disposal at the Village Farm Landfill

Phase IV activities were performed during the period November 3, through November 5, 1998. On November 3, the compressed gas cylinders were inspected, and characterized, and a location was chosen for concrete pad construction.

Ten compressed gas cylinders had been unearthed during the Village Farm Landfill excavation of August 1998. All ten compressed gas cylinders were found to be empty. Two acetylene gas cylinders were determined to have an asbestos lining. The asbestos was non-friable and therefore non-hazardous. The two compressed gas cylinders containing the non-friable asbestos and the other eight empty compressed gas cylinders were all were disposed of at the USMA transfer station. See IT memorandum dated December 15, 1998 in Appendix F for additional details.

Concrete pad construction work was performed by Earthworks, Inc. Stone was delivered to the site to raise and level the area where the concrete pad was placed. The stone was spread across the 23 foot by 30 foot area and compacted.

The concrete pad form work was performed on November 4, with wire mesh being placed on the floor of the pad area. Cement with fiberglass reinforcement was poured at the pad area and brush finished on September 5. See concrete pad drawing (Figure 1) for details.

The site was demobilized on November 5, 1998.

This concludes project activities for this report.

Table 1
Analytical Results
Village Farm Landfill Remediation/USMA - West Point, NY

Sample No./Date/Matrix Compound	VFB-1 8/13/98 soil	VFB-2 8/13/98 soil	VFB-3 8/13/98 soil	VF-C-1 8/13/98 TCLP only soil	VF-C-2 8/13/98 TCLP only soil	VFB-4 8/22/98 soil	VF-C-3 8/22/98 soil	VF-1 Water Bottom 8/22/98	VFE10 8/26/98 soil	VFS20 8/26/98 soil
Metals, total (mg/kg)										
Silver	ND≥2.6	ND≥2.1	ND≥2.3			ND≥2.3	ND≥2.4	ND≥0.01	ND≥2.4	ND≥2.4
Arsenic	10	5.4	ND≥5.7			12	12	0.012	18	13
Barium	63	34	65			67	120	0.43	100	110
Cadmium	0.90	ND≥0.52	ND≥0.57			ND≥0.54	1.2	ND≥0.01	1.1	1.5
Chromium	20	8.4	16			16	23	0.034	22	23
Mercury	ND≥0.32	ND≥0.26	ND≥0.28			ND≥0.27	0.36	0.00047	ND≥0.29	1.5
Lead	81	52	19			30	250	0.89	210	230
Selenium	ND≥0.39	ND≥0.42	ND≥0.40			ND≥0.41	ND≥0.41	ND≥0.0059	ND≥0.24	ND≥0.24
TCLP Metals (mg/L)										
Silver				ND≥0.10	ND≥0.10	ND≥0.10				
Arsenic				ND≥1.0	ND≥1.0	ND≥1.0				
Barium				0.78	0.68	0.51				
Cadmium				ND≥1.0	ND≥1.0	ND≥1.0				
Chromium				ND≥2.0	ND≥2.0	ND≥2.0				
Mercury				ND≥0.005	ND≥0.005	ND≥0.005				
Lead				1.1	1.4	ND≥1.0				
Selenium				ND≥1.0	ND≥1.0	ND≥1.0				

mg/kg - milligrams per kilogram
mg/L- milligrams per liter
TCLP - Toxicity Characteristic Leaching Procedure
ND - Compound not detected at or above the reporting limit

Table 1
Analytical Results
Village Farm Landfill Remediation/USMA - West Point, NY

Sample No./Date/Matrix Compound	VFS10 8/26/98 soil	VFB10 8/26/98 soil	VFC-10A 8/26/98 soil	VFC-11A 8/26/98 soil	VFC-12A 8/26/98 soil	VFC-13A 8/26/98 soil	VFC-14A 8/26/98 soil	VFC-10B 8/26/98 soil	VFC-11B 8/26/98 soil
Metals, total (mg/kg)									
Silver	ND≥2.4	ND≥2.4	ND≥2.4	ND≥2.6	ND≥2.4	ND≥2.4	ND≥2.4		
Arsenic	22	19	12	17	15	16	19		
Barium	120	110	97	110	88	94	100		
Cadmium	2.0	0.93	0.92	1.4	1.3	0.67	1.5		
Chromium	27	26	21	22	19	23	21		
Mercury	ND≥0.30	ND≥0.30	ND≥0.30	ND≥0.32	ND≥0.30	1.4	ND≥0.30		
Lead	270	230	230	280	210	200	210		
Selenium	ND≥0.24	ND≥0.24	0.29	ND≥0.26	ND≥0.24	ND≥0.24	ND≥0.24		
TCLP Metals (mg/L)									
Silver								ND≥0.10	ND≥0.10
Arsenic								ND≥1.0	ND≥1.0
Barium								0.59	0.62
Cadmium								ND≥0.10	ND≥0.10
Chromium								ND≥0.20	ND≥0.20
Mercury								ND≥0.005	ND≥0.005
Lead								ND≥1.0	ND≥1.0
Selenium								ND≥1.0	ND≥1.0

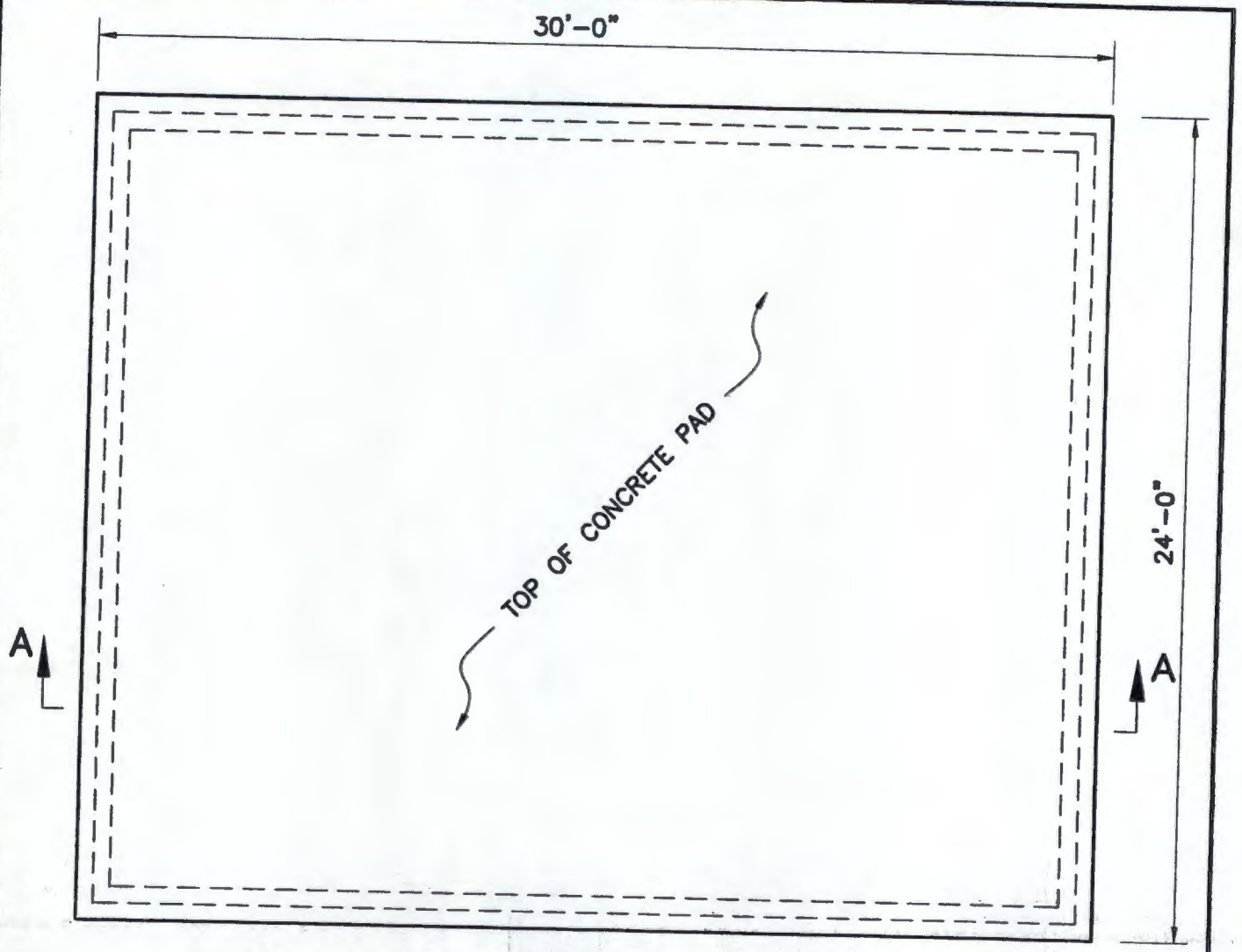
mg/kg - milligrams per kilogram
mg/L- milligrams per liter
TCLP - Toxicity Characteristic Leaching Procedure
ND - Compound not detected at or above the reporting limit

Table 1
Analytical Results
Village Farm Landfill Remediation/USMA - West Point, NY

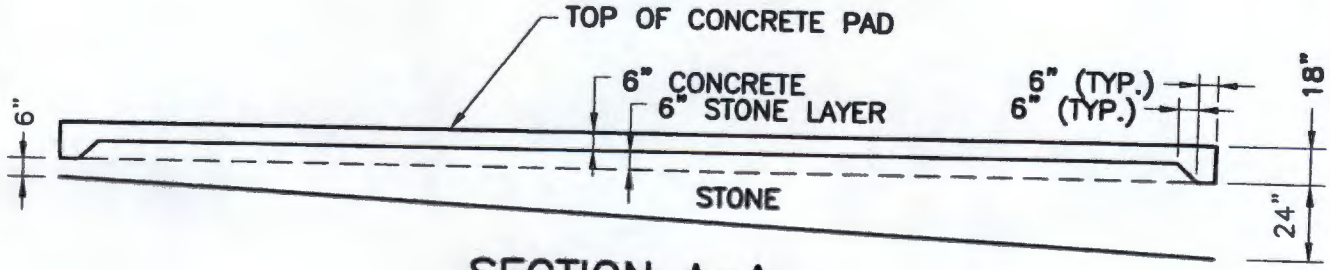
Sample No./Date/Matrix Compound	VFC-12B 8/26/98 soil	VFC-13B 8/26/98 soil	VFC-14B 8/26/98 soil				
Metals, total (mg/kg)							
Silver							
Arsenic							
Barium							
Cadmium							
Chromium							
Mercury							
Lead							
Selenium							
TCLP Metals (mg/L)							
Silver	ND≥0.10	ND≥0.10	ND≥0.10				
Arsenic	ND≥1.0	ND≥1.0	ND≥1.0				
Barium	0.62	0.60	0.60				
Cadmium	ND≥0.10	ND≥0.10	ND≥0.10				
Chromium	ND≥0.20	ND≥0.20	ND≥0.20				
Mercury	ND≥0.005	ND≥0.005	ND≥0.005				
Lead	ND≥1.0	ND≥1.0	ND≥1.0				
Selenium	ND≥1.0	ND≥1.0	ND≥1.0				

mg/kg - milligrams per kilogram
mg/L- milligrams per liter
TCLP - Toxicity Characteristic Leaching Procedure
ND - Compound not detected at or above the reporting limit

IMAGE	X-REF	OFFICE	DRAWING NUMBER
---	---	PGH	776182-A1



PLAN



SECTION A-A

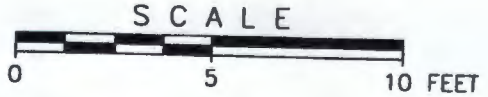


FIGURE 1

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE

IT CORPORATION

USMA – WEST POINT

VILLAGE FARM LANDFILL REMEDIATION
BLEACHER PAD CONSTRUCTION

DESIGNED BY			CHECKED BY		
DRAWN BY	G. Jones	1/25/99	APPROVED BY		

SCALE:	DRAWING NO.	SHEET NO.	REVISION NO.
1" = 5'-0"	776182-A1	C-1	--

DATE: 1/25/99
TIME: 9:00 AM
FORMAT REVISION 12/24/98

SCOPE OF WORK
LANDFILL REMEDIATION, U.S. MILITARY ACADEMY
WEST POINT, NEW YORK
DACW45-94-D-0054 DELIVERY ORDER NO. 019
MODIFICATION P00005
3 MARCH 1998

1. **INTRODUCTION.** The United States Military Academy has requested the U.S. Army Corps of Engineers, Omaha District utilize the existing Rapid Response Delivery Order (No. 19) to perform additional landfill remediation at West Point. This request entails consolidating the estimated 2,000 cubic yards of refuse at the Village Farm Landfill into Cragston Sanitary Landfill, which is undergoing final closure. To support this the Contractor shall perform the tasks outlined in paragraph 4 of this Scope of Work.

2. **PURPOSE.** The purpose of this Scope of Work is to outline the general requirements necessary for the Contractor to successfully complete this project. The Contractor shall provide all labor, equipment, and materials necessary to accomplish specified tasks. The Contractor shall include all data and information gathered from these additional tasks as an appendix to the existing Final Report.

3. **REGULATORY & SUBMITTAL REQUIREMENTS.** The Contractor shall identify and strictly adhere to all legally applicable or relevant and appropriate requirements for this project. The Contractor shall also adhere to all requirements stated in the November 12, 1997 letter from New York State Department of Environmental Conservation (NYSDEC). The Contractor shall adhere to all reporting and Health & Safety requirements as specified in the Final Scope of Work dated September 21, 1995. The Contractor shall make necessary changes to the approved plans in the form of addenda. The Contractor shall also make supplemental entries to the project Final Report required to fully document the work added by this modification.

4. **SITE WORK.** Requested work performed under this modification includes the following specific site work tasks:

4.1 Removal Action: Excavation and transfer of an estimated 2,000 cubic yards of refuse from the Village Farm Landfill to the Cragston Sanitary Landfill. The Contractor shall remain cognizant of the school zone en route to/from Cragston Landfill. Acceptable speed controls shall be enforced while in a school zone. These speed controls shall be detailed in the Site Specific Health & Safety Plan.

4.2 Confirmatory Sampling: One sample shall be taken out of each 250 cubic yard stock pile and analyzed for TCLP Metals and a confirmatory samples shall be taken from every 100 square feet of the excavation site and analyzed for totals metals.

4.3 Leachate Collection. In the event that groundwater is encountered during excavation activities at the Village Farm Road

Landfill site the Contractor shall conduct dewatering operations . A two inch dri-prime centrifugal trash pump will be used to dewater the excavation site. The suction hose used to collect the water shall be covered on the end with a screen stainer. Water generated as a result of excavation dewatering operations will be containerized into a 4,000 gallon poly storage tank. It is anticipated that the total water collected during excavation activities will not exceed 4,000 gallons. Collected wastewater shall be managed by USMA personnel and managed through the USMA POTW.

4.4 Erosion Control: The Contractor shall protect both project sites during excavation and backfilling phases from erosion by utilizing silt fencing reinforced with haybales. Silt fencing and haybales shall be placed down gradient where there is natural drainage from the excavation site. Also, silt fencing shall be placed in front of the culvert to prevent run-off into the culvert. At the completion of the excavation and backfilling both sites shall be seeded and covered with straw.

4.5 Foot Bridge: The Contractor shall erect a nature path type wooden or timber 'foot bridge' over the drainage swale that was completed during a previous mobilization to the Village Farm Road Landfill.

4.6 Restoration: The Contractor shall be responsible for excavation and transfer of backfill material from an USMA identified borrow location near the site. Contractor shall be responsible for the backfill, compaction, and final seeding of the Village Farm and Cragston Landfill locations.

4.7 Final Report. A Final Report for this delivery order has already been developed. The following information concerning work performed under this modification shall be assembled according to the following format and submitted as an appendix to the existing Final Report.

4.7.1 Summary of Work Performed. Summary of work performed including, but not limited to:

4.7.1.1 Safety;

4.7.1.2 Quality control;

4.7.1.3 Recommendation, lessons learned;

4.7.1.4 Conclusions;

4.7.1.5 Any other unique or special tasks performed or situations documented.

4.7.1.6 Waste Profile Sheet and shipping documents.

4.7.1.7 Rapid Response Quality Control Daily

Report.

4.7.1.8 Rapid Response Daily Work Order.

4.7.1.9 Sampling and Analysis Documentation and Results.

4.7.1.10 Photo Documentation.

4.7.1.11 List of visitors.

5. **FEE STATUS**. Additional work due to this modification shall be considered fee bearing.

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763840	PROJECT NAME: USMA-West Point - Village Tpmfan 511		
BORING NUMBER: 01	COORDINATES:		DATE: 12/18/96
ELEVATION:	GWL: Depth 4-6 Ft.	Date/Time 12/18/96/0845	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David Bizzelli	Depth	Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510D Extend-a-hoe			PAGE 1 OF 1

DEPTH (Ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown m-c sand, fill material boulders - subrounded to rounded				
2				Subangular Boulders, small				
4				Water seeping in @4-6Ft.				
6								
8				Bottom of test pit @ 8Ft.				

NOTES:

Drilling Contractor ______

Drilling Equipment ______

Driller: ______

243B-3-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763840	PROJECT NAME: USMA-West Point Village Farm Landfill		
BORING NUMBER: 02	COORDINATES:		DATE: 12/18/96
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth	Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510 Extend-a-hoe			PAGE 1 OF 1

DEPTH (Ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown M-C sand, fill material boulders, subrounded to rounded				
2				Subangular Boulder, small				
4								
6				Bottom of test pit @ 6 ft				
8								

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

_____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763840	PROJECT NAME: USMA - West Point - Village Farm Landfill		
BORING NUMBER: 03	COORDINATES:		DATE: 12/18/96
ELEVATION:	GWL: Depth 2 ft.	Date/Time 12-18-96/10:45	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth	Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510D Extend-a-hoe			PAGE 1 OF 1

DEPTH (ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown m-c Sand, Fill material boulders, subrounded to rounded				Same landfill debris encountered at NE corner of Test Pit 4
2				Subangular Boulders, Small to large				
				Water seeping in @ 2ft.				
4								
6								
8				Bottom of Test Pit @ 8ft.				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 767840	PROJECT NAME: USMA - West Point - Village Farm Landfill	
BORING NUMBER: 04	COORDINATES:	DATE: 12/18/96
ELEVATION:	GWL: Depth 6 ft. Date/Time 12/18/96 1130	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510 Extendo-hoe		PAGE 1 OF 1

DEPTH (ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Sand - dark brown - fill material boulders, subrounded to rounded				Some landfill debris encountered at NE corner of Test Pit 4
2				Sub angular boulders, small to medium.				
4								
6				Water seeping in @ 6 ft.				
8								
10				Bottom of Test Pit @ 10 ft.				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763840	PROJECT NAME: USMA-West Point-Village Town Landfill	
BORING NUMBER: 05	COORDINATES:	DATE: 12/18/96
ELEVATION:	GWL: Depth 2 Ft. Date/Time 12/18/96/1400	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510D Extend-a-hoe		PAGE 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown sand - fill material boulders, sub-round to round				Soil mixed in with landfill debris
1				- Landfill debris - plastic, cloth, scrap metal etc. (@ 0.5 Ft.)				More soil than debris
2				Water seeping in @ 2 ft. at a high rate				
4								
6								
8				Bottom of Test Pit @ 8 ft.				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763840	PROJECT NAME: USMA - West Point - Village Target Range		
BORING NUMBER: 06A	COORDINATES:		DATE: 12/18/96
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth	Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510 D Extendahoe			PAGE 1 OF 1

DEPTH (Ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown M-C sand, fill material boulders - subrounded to rounded				No landfill material encountered
2				Subangular Boulders, small				
4				Bottom of Test Pit @ 4 Ft.				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763940	PROJECT NAME: USMA - West Point Village Dump Landfill		
BORING NUMBER: 66	COORDINATES:		DATE: 12/12/96
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth	Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510 D Extend-a-hoe			PAGE 1 OF 1

DEPTH (Ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown m-c sand, fill material boulders - subrounded to rounded				No landfill material encountered
2				Sub angular boulders, small				
4				Bottom of Test Pit @ 4Ft.				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763940	PROJECT NAME: USMA - West Point - V, Huge Town Landfill	
BORING NUMBER: 06	COORDINATES:	DATE: 12/13/96
ELEVATION:	GWL: Depth 4 Ft. Date/Time 12/18/96 1445	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510D Extend-a-hoe		PAGE 1 OF 1

DEPTH (Ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown Sand - fill material boulders, subrounded to rounded				Soil/debris mixture. More soil than debris
1				Land fill debris - plastic, cloth, scrap metal (@ 0.5 Ft.)				
2				Sub angular boulders, small to large.				
4				Water seeping in @ 4 Ft.				
6				Bottom of Test Pit @ 6 ft. End of land fill debris				
8								

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763780	PROJECT NAME: USMA - West Point - Village Farm Landfill	
BORING NUMBER: 07A	COORDINATES:	DATE: 12/18/96
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David J. Buzzelli	Depth Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510 D Extend-a-hoe		PAGE 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown sand - fill material, boulders, sub-rounded and rounded				No Landfill material Encountered
2								
4				Bottom of Test Pit @ 4ft.				

NOTES:

Drilling Contractor

Drilling Equipment

Driller:

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763780	PROJECT NAME: USMA - West Point - Village Landfill		
BORING NUMBER: 07B	COORDINATES:		DATE: 12/18/96
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth	Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510D - Extend-a-hoe			PAGE 1 OF 1

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown Sand - Fill material				No landfill material encountered
				Boulders, subrounded and rounded				
2								
4				Bottom of Test Pit @ 4 Ft.				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763720	PROJECT NAME: USNA-Westpoint - Village Farm Landfill	
BORING NUMBER: 07C	COORDINATES:	DATE: 12/12/96
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 12/12/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth Date/Time	DATE COMPLETED: 12/12/96
DRILLING METHODS: John Deere 510 D Extendahoe		PAGE 1 OF 1

DEPTH (FT.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown sand - Fill material boulders, sub-rounded & rounded				No Landfill material encountered
2								
4				Bottom of Test Pit @ 4 Ft.				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763780	PROJECT NAME: USMA - Westpoint - Village Tower Landfill		
BORING NUMBER: 07	COORDINATES:		DATE: 12/18/96
ELEVATION:	GWL: Depth 4 ft.	Date/Time 12/13/96 1615	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David Buzzello	Depth	Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510 D Extendahoe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown sand - fill material boulders, sub rounded and rounded subangular boulders, small to large				2 ft. layer of landfill debris
2				Landfill debris - plastic, cloth, scrap metal (@ 2ft - 4ft.)				
4				Water Seeping in at 4 ft.				
6				Bottom of test Pit @ 6 ft.				
8								

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763780	PROJECT NAME: USMA - West Point - Village Landfill		
BORING NUMBER: 08	COORDINATES:	DATE: 12/18/96	
ELEVATION:	GWL: Depth 4 ft. Date/Time 12/26/1640	DATE STARTED: 12/18/96	
ENGINEER/GEOLOGIST: David Buzzelli	Depth Date/Time	DATE COMPLETED: 12/18/96	
DRILLING METHODS: John Deere 510 Backhoe		PAGE 1 OF 1	

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown Sand - fill material boulders, sub rounded and rounded				3 ft. Layer of landfill debris.
2				Landfill debris - plastic cloth Scrap metal (@ 2ft.-5 Ft.)				
4				Water Seeping in @ 4 ft.				
6								
7				Bottom of Test Pit @ 7ft.				
8								

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763780	PROJECT NAME: USMA - West Point - Old Landfill	
BORING NUMBER: 09	COORDINATES:	DATE: 12/18/96
ELEVATION:	GWL: Depth 7ft. Date/Time 12/19/96/0830	DATE STARTED: 12/18/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth Date/Time	DATE COMPLETED: 12/18/96
DRILLING METHODS: John Deere 510D Backhoe		PAGE 1 OF 1

DEPTH (ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown Sand - fill material boulders, subrounded and rounded				- Very little debris mixed in with the soil.
1				- Landfill debris - plastic, cloth & scrap metal (0.5 ft. - 7 ft.)				
2								
4								
6								
7				Water seeping in @ 7ft.				
8				Bottom of Test Pit @ 7ft.				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763780	PROJECT NAME: USMA - West Point - Village Farm Landfill	
BORING NUMBER: 10	COORDINATES:	DATE: 12/19/96
ELEVATION:	GWL: Depth 6 Ft. Date/Time 12/19/96/0900	DATE STARTED: 12/19/96
ENGINEER/GEOLOGIST: David Bizzelli	Depth Date/Time	DATE COMPLETED: 12/19/96
DRILLING METHODS: John Deere 510D Extend-a-hoe		PAGE 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown sand - Fill material boulders, subrounded and rounded - Landfill debris - plastic, cloth, scrap metal (0.5 ft - 12 Ft.).				
4				- Landfill debris				- Mostly landfill debris
6				Groundwater @ 6 Ft.				
12				Bottom of Test Pit @ 12 Ft.				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763840	PROJECT NAME: USMA - West Point - Village Town Landfill	
BORING NUMBER: 11	COORDINATES:	DATE: 12/19/96
ELEVATION:	GWL: Depth 7.5 ft. Date/Time 12/19/96 0945	DATE STARTED: 12/19/96
ENGINEER/GEOLOGIST: David Bizzell	Depth Date/Time	DATE COMPLETED: 12/19/96
DRILLING METHODS: John Deere 510D Extend-a-hoe		PAGE 1 OF 1

DEPTH (Ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown sand - Fill material boulders, subrounded & rounded				
2				Land fill debris - plastic, cloth, scrap metal, tires (0.5 ft. - 12 ft.)				
4				Land fill debris				Mostly Land fill debris
6								
7				Groundwater @ 7.5 ft.				
8								
10								
12				Bottom of Test Pit @ 12 ft.				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763840	PROJECT NAME: USMA - West Point - Village Farm Landfill	
BORING NUMBER: 12	COORDINATES:	DATE: 12/19/96
ELEVATION:	GWL: Depth 3.5 Ft. Date/Time 12/19/96 1015	DATE STARTED: 12/19/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth Date/Time	DATE COMPLETED: 12/19/96
DRILLING METHODS: John Deere 510D Extend-a-hoe		PAGE 1 OF 1

DEPTH (ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown Sand - Fill material boulders, subrounded and rounded				
2								
3				- Encountered Landfill debris - (3 - 5.5 Ft.)				
4				- Groundwater at 3.5 ft.				
5								
6				Bottom of Test Pit @ 5.5 ft. Bedrock or large boulder				
8								

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

_____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 763840	PROJECT NAME: USMA - West Point - Village Farm Landfill		
BORING NUMBER: 13	COORDINATES:	DATE: 12/19/96	
ELEVATION:	GWL: Depth 3 ft Date/Time 12/19/96 1050	DATE STARTED: 12/19/96	
ENGINEER/GEOLOGIST: David Buzzelli	Depth Date/Time	DATE COMPLETED: 12/19/96	
DRILLING METHODS: John Deere 510D Extendahoe		PAGE 1 OF 1	

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown - Sand - fill material boulders, subrounded and rounded - Landfill debris - plaster, cloth, scrap metal, tires (0.5 - 12 ft.)				
2								
3				Groundwater @ 3 ft				
4								
6				Landfill debris				- Mostly landfill debris
8								
10								
12				Bottom of Test Pit 13				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 76384.0	PROJECT NAME: USMA - West Point - Village Farm Landfill	
BORING NUMBER: TP4	COORDINATES:	DATE: 12/19/96
ELEVATION:	GWL: Depth 5 ft. Date/Time 12/19/96/1130	DATE STARTED: 12/19/96
ENGINEER/GEOLOGIST: David Buzzelli	Depth Date/Time	DATE COMPLETED: 12/19/96
DRILLING METHODS: John Deere 510D Extend-a-hoe		PAGE 1 OF 1

DEPTH (ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0				Brown sand - ~~TMK~~ DTB Boulders, subrounded and rounded.				No landfill material encountered
2								
4								
5				Ground water @ 5 ft.				
6								
8				Bottom of Test Pit @ 8 ft.				

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller: _____

_____

Photograph 1
Test Pit Survey at Village Farm Landfill
Orientation - Northeast

Photograph 2
Test Pit 01 - Groundwater at 4 ft., No landfill debris

Photograph 3
Test Pit 02 - No landfill debris

Photograph 4
Test Pit 03 - Landfill debris encountered
Orientation - East

Photograph 5
Test Pit 04 - Landfill debris encountered

Photograph 6
Test Pit 05
Orientation - North

Photograph 7
Test Pit 05 - Landfill debris encountered, groundwater at 2 ft.

Photograph 8
Test Pit 06
Orientation -South

Photograph 9
Test Pit ~~10~~ 11 - Landfill debris encountered to a depth of 12 ft., groundwater at 6 ft.
Orientation - East

Photograph 10
Test Pit ~~11~~ 10 - Landfill debris encountered to a depth of 12 ft., groundwater at 7.5 ft.
Orientation - East

Photograph 11
Test Pit 13 - Landfill debris encountered to a depth of 12 ft.
Orientation - East

Photograph 12
Test Pit 13 - Groundwater at 3 ft.

Village Farm Landfill
Groundwater infiltration into Village Farm Landfill open excavation

Village Farm Landfill
Groundwater from Village Farm Landfill open excavation being transported by USMA personnel

Village Farm Landfill
Tires removed during Village Farm Landfill excavation operations

Village Farm Landfill
Compressed gas cylinders removed during Village Farm Landfill excavation operations

Village Farm Landfill
Backfilling Village Farm Landfill excavation

Village Farm Landfill
Topsoil placement at the Village Farm Landfill

Village Farm Landfill
Regrading Village Farm Landfill cover

Village Farm Landfill
Regraded Village Farm Landfill cover

Village Farm Landfill
Regraded Village Farm Landfill cover

Cragston Landfill
Regrading Cragston Landfill cover

Cragston Landfill
Replacement of Cragston Landfill cover

Cragston Landfill
Regraded Cragston Landfill cover

Memorandum

Project No.763840

October 22, 1997

To: Pete Coutts

From: Daniel C. Hsu DCH

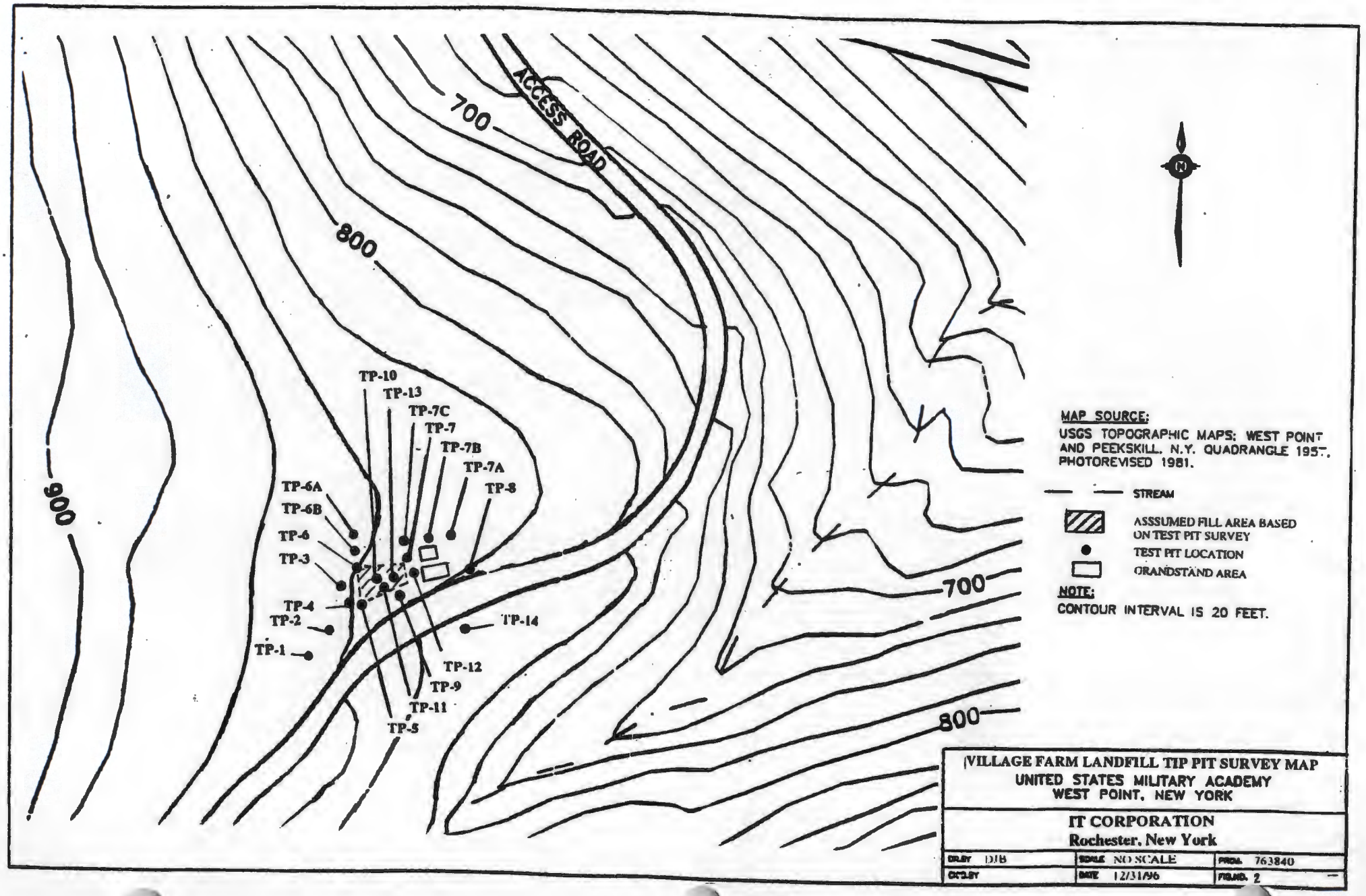
Subject: Additional Fill - Cragston Landfill Closure

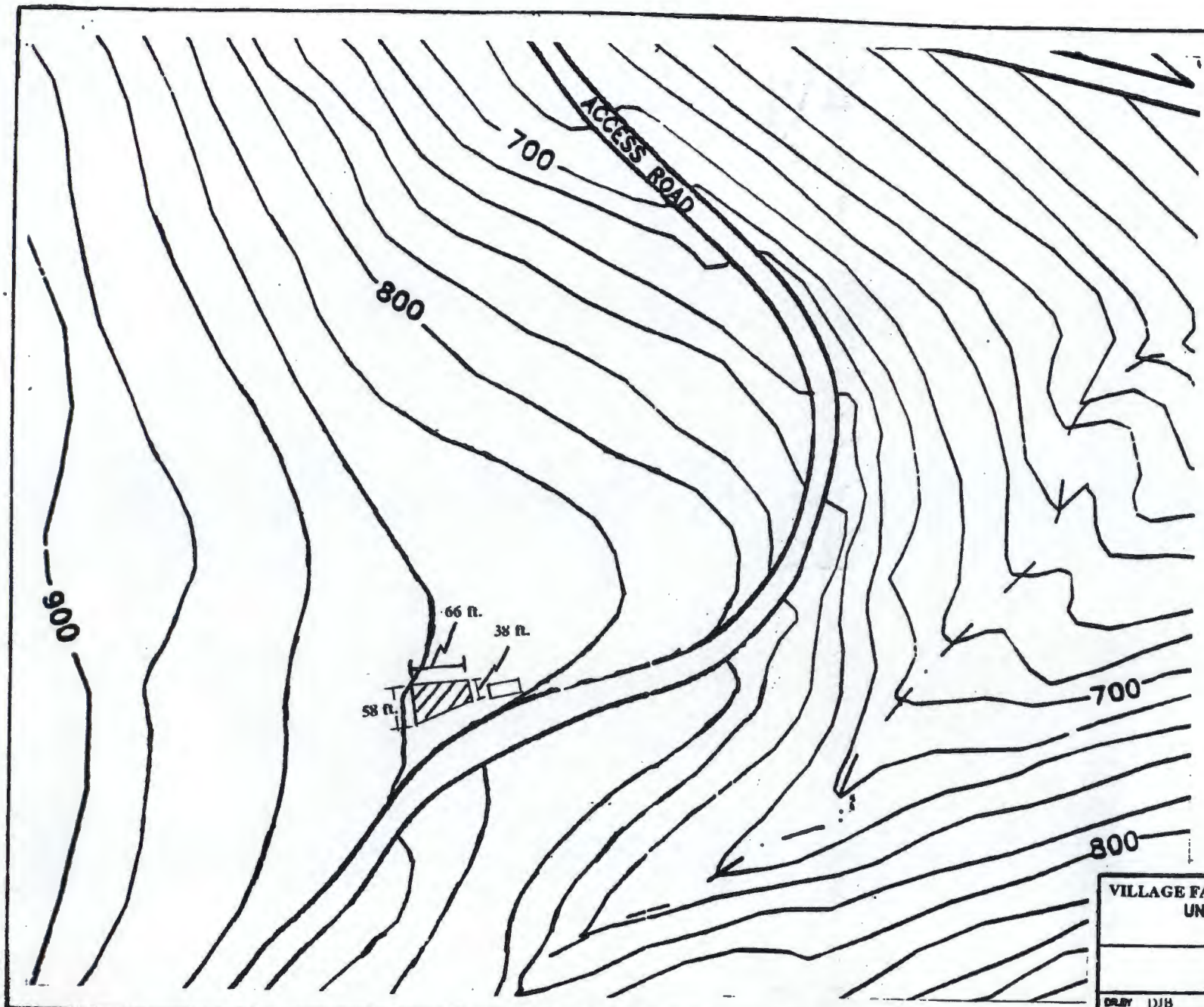
With considerable efforts, I was finally able to receive the correct information for estimating of the availabe air space for the Gragston Landfill. One of the reasons for the difficulty is due to the project has been put on shelf for more than one year and people involved the project does not remember the details.

We have completed the estimate and located the area that can receive 2000 cubic yards of fill from offsite sources. The estimate was done based on the following data and information.

- Existing Site Conditions Plan - Drawing No. F-833-90-10, Plate 2, dated July 1995(100%)
- Final Grading Plan- Drawing No.-833-90-10, Plate 2, dated July 1995(100%)
- Final Cover System Details, Plate 11, dated March 1995(60%)
- Phone Call from Bill Zahn of Roy Weston on October 21,1997 indicated that there is no 1-foot gas venting layer below the preparatory grading plan as shown on the 60 percent drawing

Based the on calculation, the cut and fill balance requires approximately 2000 cubic yards of additional fill. Attached are the drawings showing the area that can receive fill. Please call me 412-858-3928, if you have any questions.


ACCESS ROAD
700
800
900
700
800
TP-10
TP-13
TP-7C
TP-7
TP-7B
TP-7A
TP-8
TP-6A
TP-6B
TP-6
TP-3
TP-4
TP-2
TP-1
TP-5
TP-11
TP-9
TP-12
TP-14
N
MAP SOURCE:
USGS TOPOGRAPHIC MAPS: WEST POINT AND PEEKSKILL, N.Y. QUADRANGLE 1957, PHOTOREVISED 1981.
STREAM
ASSSUMED FILL AREA BASED ON TEST PIT SURVEY
TEST PIT LOCATION
GRANDSTAND AREA
NOTE:
CONTOUR INTERVAL IS 20 FEET.
VILLAGE FARM LANDFILL TIP PIT SURVEY MAP
UNITED STATES MILITARY ACADEMY
WEST POINT, NEW YORK
IT CORPORATION
Rochester, New York
DRAWN BY DJB
SCALE NO SCALE
PROJ. 763840
CHECKED BY
DATE 12/31/96
FIGURE 2



MAP SOURCE:
USGS TOPOGRAPHIC MAPS: WEST POINT AND PEEKSKILL, N.Y. QUADRANGLE 195?, PHOTOREVISED 1981.

STREAM

ASSSUMED FILL AREA BASED ON TEST PIT SURVEY

GRANDSTAND AREA

NOTE:
CONTOUR INTERVAL IS 20 FEET.

VILLAGE FARM LANDFILL ASSUMED FILL AREA MAP
UNITED STATES MILITARY ACADEMY
WEST POINT, NEW YORK

IT CORPORATION
Rochester, New York

DRWN DJB	SCALE NO SCALE	PROJ. 763840
CHKD BY	DATE 12/31/96	FIGURE 3

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792

Attention: Al Meyers

PO Number:
Account Number: ITCORPPA-520

Login #: L9808248
Report Date: 08/20/98
Work ID: 771682/WEST POINT VILLAGE FARM
Date Received: 08/14/98

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L9808248-01	VFB-1	L9808248-02	VFB-2
L9808248-03	VFB-3	L9808248-04	VF-C-1
L9808248-05	VF-C-2		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Maren M Beery

Certified By
Maren M. Beery

Order # 08-248
August 20, 1998 14:30

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

METALS - 6010/7000:

MERCURY

(A) = Initial analysis of sample VFB-1 (Kemron ID L98-08-248-01) on August 17, 1998 yielded a result of 0.540 mg/kg. The MS recovery was 16.2% while the MSD yielded a result below the unspiked sample value. The sample was redigested and reanalyzed on August 18, 1998. The results of the latter analysis are included in this laboratory report. Although the unspiked samples yielded a result below the reporting detection limit is should be noted that the MS and MSD recoveries were both significantly higher than expected based on the actual spike amount. We conclude that the sample may contain traces of mercury in a nonhomogeneous soil matrix.

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9808248-01
Client Sample ID: VFB-1
Site/Work ID: 771682/WEST POINT VILLAGE FARM

Matrix: Soil
Collected: 08/13/98 1600

% Solid: 77
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	77		1.0	1	N/A	DKM	08/14/98	10:45	D2216-90
Silver, Total.....	mg/kg		ND	2.6	1	N/A	KHA	08/17/98	10:39	6010B\3050A
Arsenic, Total.....	mg/kg	10		6.5	1	N/A	KHA	08/17/98	10:39	6010B\3050A
Barium, Total.....	mg/kg	63		0.65	1	N/A	KHA	08/17/98	10:39	6010B\3050A
Cadmium, Total.....	mg/kg	0.90		0.65	1	N/A	KHA	08/17/98	10:39	6010B\3050A
Chromium, Total.....	mg/kg	20		1.3	1	N/A	KHA	08/17/98	10:39	6010B\3050A
Mercury, Total.....	mg/kg		ND, (A)	0.32	1	N/A	KRA	08/18/98	07:07	7471A\7471A
Lead, Total.....	mg/kg	81		6.5	1	N/A	KHA	08/17/98	10:39	6010B\3050A
Selenium, Total.....	mg/kg		ND,L	0.39	1	N/A	RSS	08/17/98	12:00	7740

Lab Sample ID: L9808248-02
Client Sample ID: VFB-2
Site/Work ID: 771682/WEST POINT VILLAGE FARM

Matrix: Soil
Collected: 08/13/98 1600

% Solid: 96
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	96		1.0	1	N/A	DKM	08/14/98	10:45	D2216-90
Silver, Total.....	mg/kg		ND	2.1	1	N/A	KHA	08/17/98	10:22	6010B\3050A
Arsenic, Total.....	mg/kg	5.4		5.2	1	N/A	KHA	08/17/98	10:22	6010B\3050A
Barium, Total.....	mg/kg	34		0.52	1	N/A	KHA	08/17/98	10:22	6010B\3050A
Cadmium, Total.....	mg/kg		ND	0.52	1	N/A	KHA	08/17/98	10:22	6010B\3050A
Chromium, Total.....	mg/kg	8.4		1.0	1	N/A	KHA	08/17/98	10:22	6010B\3050A
Mercury, Total.....	mg/kg		ND	0.26	1	N/A	KRA	08/17/98	09:49	7471A\7471A
Lead, Total.....	mg/kg	52		5.2	1	N/A	KHA	08/17/98	10:22	6010B\3050A
Selenium, Total.....	mg/kg		ND,S	0.42	2	N/A	RSS	08/17/98	12:00	7740

L = Reporting Limit

Lab Sample ID: L9808248-03
Client Sample ID: VFB-3
Site/Work ID: 771682/WEST POINT VILLAGE FARM

Matrix: Soil
Collected: 08/13/98 1600

% Solid: 88
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	% wt.	88		1.0	1	N/A	DKM	08/14/98	10:45	D2216-90
Silver, Total	mg/kg		ND	2.3	1	N/A	KHA	08/17/98	10:52	6010B\3050A
Arsenic, Total	mg/kg		ND	5.7	1	N/A	KHA	08/17/98	10:52	6010B\3050A
Barium, Total	mg/kg	65		0.57	1	N/A	KHA	08/17/98	10:52	6010B\3050A
Cadmium, Total	mg/kg		ND	0.57	1	N/A	KHA	08/17/98	10:52	6010B\3050A
Chromium, Total	mg/kg	16		1.1	1	N/A	KHA	08/17/98	10:52	6010B\3050A
Mercury, Total	mg/kg		ND	0.28	1	N/A	KRA	08/17/98	09:49	7471A\7471A
Lead, Total	mg/kg	19		5.7	1	N/A	KHA	08/17/98	10:52	6010B\3050A
Selenium, Total	mg/kg		ND,L	0.40	1	N/A	RSS	08/17/98	12:00	7740

TCLP METALS

Lab Sample ID: L9808248-04
Client Sample ID: VF-C-1
Site/Work ID: 771682/WEST POINT VILLAGE FARM

Matrix: Soil
Collected: 08/13/98 1600
Units: mg/L

COC Info: N/A
TCLP Ext. Date: 08/16/98

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Silver		ND	0.10	5	6010B\3015\1311	08/17/98	08/17/98	12:48	N/A
Arsenic		ND	1.0	5	6010B\3015\1311	08/17/98	08/17/98	12:48	N/A
Barium	0.78		0.10	100	6010B\3015\1311	08/17/98	08/17/98	12:48	N/A
Cadmium		ND	0.10	1	6010B\3015\1311	08/17/98	08/17/98	12:48	N/A
Chromium		ND	0.20	5	6010B\3015\1311	08/17/98	08/17/98	12:48	N/A
Mercury		ND	0.005	0.2	7470\7470\1311	08/17/98	08/17/98	11:13	N/A
Lead	1.1		1.0	5	6010B\3015\1311	08/17/98	08/17/98	12:48	N/A
Selenium		ND	1.0	1	6010B\3015\1311	08/17/98	08/17/98	12:48	N/A

RL = Reporting Limit

Login #L9808248
August 20, 1998 03:01 pm

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L9808248-05
Client Sample ID: VF-C-2
Site/Work ID: 771682/WEST POINT VILLAGE FARM

Matrix: Soil
Collected: 08/13/98 1600
Units: mg/L

COC Info: N/A
TCLP Ext. Date: 08/16/98

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Silver.....		ND	0.10	5	6010B\3015\1311	08/17/98	08/17/98	12:52	N/A
Arsenic.....		ND	1.0	5	6010B\3015\1311	08/17/98	08/17/98	12:52	N/A
Barium.....	0.68		0.10	100	6010B\3015\1311	08/17/98	08/17/98	12:52	N/A
Cadmium.....		ND	0.10	1	6010B\3015\1311	08/17/98	08/17/98	12:52	N/A
Chromium.....		ND	0.20	5	6010B\3015\1311	08/17/98	08/17/98	12:52	N/A
Mercury.....		ND	0.005	0.2	7470\7470\1311	08/17/98	08/17/98	11:13	N/A
Lead.....	1.4		1.0	5	6010B\3015\1311	08/17/98	08/17/98	12:52	N/A
Selenium.....		ND	1.0	1	6010B\3015\1311	08/17/98	08/17/98	12:52	N/A

= Reporting Limit

Order #: 98-08-248
August 20, 1998 03:01 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG44520	R50658	L9808248-01		Soil	Percent Solids	D2216-90	DKM	13-AUG-1998	14-AUG-1998	10:45	Conventionals
WG44520	R50658	L9808248-02		Soil	Percent Solids	D2216-90	DKM	13-AUG-1998	14-AUG-1998	10:45	Conventionals
WG44520	R50658	L9808248-03		Soil	Percent Solids	D2216-90	DKM	13-AUG-1998	14-AUG-1998	10:45	Conventionals
WG44543	R50647	L9808248-02		Soil	Mercury, Total	7471A\7471A	KRA	13-AUG-1998	17-AUG-1998	09:49	Digestion
WG44543	R50647	L9808248-03		Soil	Mercury, Total	7471A\7471A	KRA	13-AUG-1998	17-AUG-1998	09:49	Digestion
WG44545	R50641	L9808248-01		Soil	Arsenic, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Digestion
WG44545	R50641	L9808248-01		Soil	Barium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Digestion
WG44545	R50641	L9808248-01		Soil	Cadmium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Digestion
WG44545	R50641	L9808248-01		Soil	Chromium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Digestion
WG44545	R50641	L9808248-01		Soil	Lead, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Digestion
WG44545	R50641	L9808248-01		Soil	Silver, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Digestion
WG44545	R50641	L9808248-02		Soil	Arsenic, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Digestion
WG44545	R50641	L9808248-02		Soil	Barium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Digestion
WG44545	R50641	L9808248-02		Soil	Cadmium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Digestion
WG44545	R50641	L9808248-02		Soil	Chromium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Digestion
WG44545	R50641	L9808248-02		Soil	Lead, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Digestion
WG44545	R50641	L9808248-02		Soil	Silver, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Digestion
WG44545	R50641	L9808248-03		Soil	Arsenic, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Digestion
WG44545	R50641	L9808248-03		Soil	Barium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Digestion
WG44545	R50641	L9808248-03		Soil	Cadmium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Digestion
WG44545	R50641	L9808248-03		Soil	Chromium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Digestion
WG44545	R50641	L9808248-03		Soil	Lead, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Digestion
WG44545	R50641	L9808248-03		Soil	Silver, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Digestion
WG44546	R50675	L9808248-01		Soil	Selenium, Total	7740	RSS	13-AUG-1998	17-AUG-1998	12:00	Digestion
WG44546	R50675	L9808248-02		Soil	Selenium, Total	7740	RSS	13-AUG-1998	17-AUG-1998	12:00	Digestion
WG44546	R50675	L9808248-03		Soil	Selenium, Total	7740	RSS	13-AUG-1998	17-AUG-1998	12:00	Digestion
WG44566	R50662	L9808248-04		Soil	Mercury, TCLP	7470\7470\1311	KRA	13-AUG-1998	17-AUG-1998	11:13	TCLP Prep.
WG44566	R50662	L9808248-05		Soil	Mercury, TCLP	7470\7470\1311	KRA	13-AUG-1998	17-AUG-1998	11:13	TCLP Prep.
WG44572	R50648	L9808248-04		Soil	Arsenic, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Digestion
WG44572	R50648	L9808248-04		Soil	Barium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Digestion
WG44572	R50648	L9808248-04		Soil	Cadmium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Digestion
WG44572	R50648	L9808248-04		Soil	Chromium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Digestion
WG44572	R50648	L9808248-04		Soil	Lead, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Digestion
WG44572	R50648	L9808248-04		Soil	Selenium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Digestion
WG44572	R50648	L9808248-04		Soil	Silver, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Digestion
WG44572	R50648	L9808248-05		Soil	Arsenic, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Digestion
WG44572	R50648	L9808248-05		Soil	Barium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Digestion
WG44572	R50648	L9808248-05		Soil	Cadmium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Digestion
WG44572	R50648	L9808248-05		Soil	Chromium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Digestion
WG44572	R50648	L9808248-05		Soil	Lead, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Digestion

Order #: 98-08-248
August 20, 1998 03:01 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG44572	R50648	L9808248-05		Soil	Selenium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Digestion
WG44572	R50648	L9808248-05		Soil	Silver, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Digestion
WG44573	R50662	L9808248-04		Soil	Mercury, TCLP	7470\7470\1311	KRA	13-AUG-1998	17-AUG-1998	11:13	Digestion
WG44573	R50662	L9808248-05		Soil	Mercury, TCLP	7470\7470\1311	KRA	13-AUG-1998	17-AUG-1998	11:13	Digestion
WG44575	R50641	L9808248-01		Soil	Arsenic, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Metals - ICP
WG44575	R50641	L9808248-01		Soil	Barium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Metals - ICP
WG44575	R50641	L9808248-01		Soil	Cadmium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Metals - ICP
WG44575	R50641	L9808248-01		Soil	Chromium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Metals - ICP
WG44575	R50641	L9808248-01		Soil	Lead, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Metals - ICP
WG44575	R50641	L9808248-01		Soil	Silver, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:39	Metals - ICP
WG44575	R50641	L9808248-02		Soil	Arsenic, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Metals - ICP
WG44575	R50641	L9808248-02		Soil	Barium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Metals - ICP
WG44575	R50641	L9808248-02		Soil	Cadmium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Metals - ICP
WG44575	R50641	L9808248-02		Soil	Chromium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Metals - ICP
WG44575	R50641	L9808248-02		Soil	Lead, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Metals - ICP
WG44575	R50641	L9808248-02		Soil	Silver, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:22	Metals - ICP
WG44575	R50641	L9808248-03		Soil	Arsenic, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Metals - ICP
WG44575	R50641	L9808248-03		Soil	Barium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Metals - ICP
WG44575	R50641	L9808248-03		Soil	Cadmium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Metals - ICP
WG44575	R50641	L9808248-03		Soil	Chromium, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Metals - ICP
WG44575	R50641	L9808248-03		Soil	Lead, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Metals - ICP
WG44575	R50641	L9808248-03		Soil	Silver, Total	6010B\3050A	KHA	13-AUG-1998	17-AUG-1998	10:52	Metals - ICP
WG44579	R50647	L9808248-02		Soil	Mercury, Total	7471A\7471A	KRA	13-AUG-1998	17-AUG-1998	09:49	Metals - AA
WG44579	R50647	L9808248-03		Soil	Mercury, Total	7471A\7471A	KRA	13-AUG-1998	17-AUG-1998	09:49	Metals - AA
WG44580	R50648	L9808248-04		Soil	Arsenic, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Metals - ICP
WG44580	R50648	L9808248-04		Soil	Barium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Metals - ICP
WG44580	R50648	L9808248-04		Soil	Cadmium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Metals - ICP
WG44580	R50648	L9808248-04		Soil	Chromium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Metals - ICP
WG44580	R50648	L9808248-04		Soil	Lead, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Metals - ICP
WG44580	R50648	L9808248-04		Soil	Selenium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Metals - ICP
WG44580	R50648	L9808248-04		Soil	Silver, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:48	Metals - ICP
WG44580	R50648	L9808248-05		Soil	Arsenic, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Metals - ICP
WG44580	R50648	L9808248-05		Soil	Barium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Metals - ICP
WG44580	R50648	L9808248-05		Soil	Cadmium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Metals - ICP
WG44580	R50648	L9808248-05		Soil	Chromium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Metals - ICP
WG44580	R50648	L9808248-05		Soil	Lead, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Metals - ICP
WG44580	R50648	L9808248-05		Soil	Selenium, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Metals - ICP
WG44580	R50648	L9808248-05		Soil	Silver, TCLP	6010B\3015\1311	JYH	13-AUG-1998	17-AUG-1998	12:52	Metals - ICP
WG44584	R50662	L9808248-04		Soil	Mercury, TCLP	7470\7470\1311	KRA	13-AUG-1998	17-AUG-1998	11:13	Metals - AA
WG44584	R50662	L9808248-05		Soil	Mercury, TCLP	7470\7470\1311	KRA	13-AUG-1998	17-AUG-1998	11:13	Metals - AA

Order #: 98-08-248
August 20, 1998 03:01 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG44591	R50675	L9808248-01		Soil	Selenium, Total	7740	RSS	13-AUG-1998	17-AUG-1998	12:00	Metals - AA
WG44591	R50675	L9808248-02		Soil	Selenium, Total	7740	RSS	13-AUG-1998	17-AUG-1998	12:00	Metals - AA
WG44591	R50675	L9808248-03		Soil	Selenium, Total	7740	RSS	13-AUG-1998	17-AUG-1998	12:00	Metals - AA
WG44610	R50869	L9808248-01		Soil	Mercury, Total	7471A\7471A	KRA	13-AUG-1998	18-AUG-1998	07:07	Digestion
WG44628	R50869	L9808248-01		Soil	Mercury, Total	7471A\7471A	KRA	13-AUG-1998	18-AUG-1998	07:07	Metals - AA

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG44584
METHOD: 7470
MATRIX: Water
UNITS: mg/l
INSTRUMENT: Leeman PS 200

RUN DATE: 8/17/98
PREP DATE: 8/17/98
ANALYST: KRA

ANALYTE			CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.0002	ND	0.0010	0.00096	ND	ND	ND	0.0010	0.00122	0.00129	95.1	80.0	120.0	122.0	129.0	75.0	125.0	NA	5.6	20

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON E[illegible]NMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG44575
METHOD: 6010A
MATRIX: Soil
UNITS: mg/kg
INSTRUMENT: Perkin Elmer Optima 3000 DV

RUN DATE: 8/17/98
PREP DATE: 8/14/98
ANALYST: KHA

ANALYTE	RDL	Blank	CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Silver	2.000	ND	10.000	9.700	ND	ND	ND	10.000	8.980	8.840	97.0	80.0	120.0	89.8	88.4	80.0	120.0	NA	1.57	20
Arsenic	0.200	ND	50.000	48.700	5.170	5.290	7.760	50.000	49.000	51.100	97.4	80.0	120.0	82.5	86.7	80.0	120.0	2.29	4.20	20
Barium	0.500	ND	500.000	463.000	32.200	49.500	48.200	500.000	418.000	411.000	92.6	80.0	120.0	74.0	72.6	80.0	120.0	42.35	1.69	20
Cadmium	0.500	ND	50.000	47.600	ND	1.000	0.692	50.000	40.900	40.500	95.2	80.0	120.0	80.4	79.6	80.0	120.0	NA	0.98	20
Chromium	1.000	ND	50.000	51.500	8.020	8.770	15.100	50.000	56.500	60.400	103.0	80.0	120.0	82.8	90.6	80.0	120.0	8.93	6.67	20
Lead	0.250	ND	50.320	50.500	50.200	95.100	62.400	50.000	110.000	110.000	100.4	80.0	120.0	95.2	95.2	80.0	120.0	61.80	0.00	20
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON [redacted] ONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG44579
METHOD: 7471A
MATRIX: Soil
UNITS: mg/kg
INSTRUMENT: Leeman PS 200

RUN DATE: 8/17/98
PREP DATE: 8/14/98
ANALYST: KRA

ANALYTE	RDL	Blank	CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.2500	ND	0.1670	0.1440	ND	ND	NA	0.1870	NA	NA	86.2	80.0	120.0	######	######	75.0	125.0	NA	######	20.0

NOTES & DEFINITIONS :
RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON E[illegible]MENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG44580
METHOD: 6010A
MATRIX: TCLP
UNITS: mg/l
INSTRUMENT: Thermo Jarrell Ash

RUN DATE: 8/17/98
PREP DATE: 8/17/98
ANALYST: JYH

ANALYTE	RDL	Blank	CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Arsenic	1.000	ND	1.000	0.955	ND	ND	ND	10.000	9.730	9.840	95.5	80.0	120.0	97.3	98.4	80.0	120.0	NA	1.12	20
Barium	0.100	ND	10.000	8.950	0.388	0.404	0.677	100.000	91.200	91.600	89.5	80.0	120.0	90.5	91.1	80.0	120.0	4.04	0.66	20
Cadmium	0.100	ND	1.000	0.933	ND	ND	ND	10.000	9.610	9.650	93.3	80.0	120.0	96.1	96.5	80.0	120.0	NA	0.42	20
Chromium	0.200	ND	1.000	0.945	ND	ND	ND	10.000	9.810	9.760	94.5	80.0	120.0	98.1	97.6	80.0	120.0	NA	1.55	20
Lead	1.000	ND	1.000	0.983	ND	ND	1.370	10.000	11.300	11.500	98.3	80.0	120.0	99.3	101.3	80.0	120.0	NA	1.75	20
Selenium	1.000	ND	1.000	0.954	ND	ND	ND	10.000	9.860	10.500	95.4	80.0	120.0	99.6	105.0	80.0	120.0	NA	5.28	20
Silver	0.100	ND	0.200	0.181	ND	ND	ND	2.000	1.820	1.840	90.5	80.0	120.0	91.0	92.0	80.0	120.0	NA	1.09	20
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	

NOTES & DEFINITIONS :

ROL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

METHOD: 7740
MATRIX: Soil
UNITS: mg/kg
INSTRUMENT: Zeeman2

PREP DATE: 8/14/98
Analyst: RSS

ANALYTE	RDL	Blank	CONCENTRATION PPB T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	PERCENT RECOVERY LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	PERCENT RPD REP RPD	MS RPD	RPD UCL
Selenium	0.2000	ND	1.2500	1.2400	ND	ND	ND	1.2500	0.7040	0.8980	99.2	80.0	120.0	56.3	71.8	75.0	125.0	NA	24.22	20

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ANALYST LIST

Ohio Valley Laboratory

07/06/98

ALC - - Ann L. Clark
BAD - - Becky A. Diehl
BWH - - Ben W. Haynes
CEB - - Chad E. Barnes
CDB - - Christy D. Burton
CLH - - Chris L. Hurst
CMS - - Crystal M. Stevens
CRC - - Carla R. Cochran
DIH - - Deanna I. Hesson
DKM - - Dewey K. Miller
DLN - - Deanna L. Norton
DLP - - Dorothy L. Payne
ECL - - Eric C. Lawson
FEH - - Fay E. Harmon
HV - - Hema Vilasagar
JLH - - Janice L. Holland
JMM - - Jim M. Monk
JWR - - John W. Richards
JYH - - Ji Y. Hu
KHA - - Kim H. Archer
KMM - - Kevin M. McDonald
KMS - - Kevin M. Stutler
KRA - - Kathy R. Albertson

MDA - - Mike D. Albertson
MDC - - Michael D. Cochran
MES - - Mary E. Schilling
MLS - - Michael L. Schimmel
MMB - - Maren M. Beery
RDC - - Rebecca D. Cutlip
RDS - - Rebecca D. Sutton
REF - - Ron E. Fertile
REK - - Robert E. Kyer
RSS - - Regina S. Simmons
RWC - - Rodney W. Campbell
SJK - - Sindy J. Kinney
SJM - - Shawn J. Marshall
SKH - - Shellie K. Hamrick
SLJ - - Susan L. Johnson
SLP - - Sheri L. Pfalzgraf
SLT - - Stephanie L. Tepe
SMW - - Shauna M. Welch
SPL - - Steve P. Learn
TJW - - Thomas J. Ware
TRS - - Todd R. Stack
VC - - Vicki Collier
VMN - - Vincent M. Nedeff

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS (qual)
March 9, 1998

Qualifier	Description
(A)	See the report narrative
(B)	See the report narrative
(C)	See the report narrative
+	Correlation coefficient for the MSA is less than 0.995
<	Less than
>	Greater than
B	Present in the method blank
C	Confirmed by GC/MS
*	Surrogate or spike compound out of range
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
F	Present below nominal reporting limit (AFCEE only)
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met

Qualifier	Description
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration > 25% difference between the two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out of control limits
X	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

Kemron
ENVIRONMENTAL SERVICES

CHAIN-OF-CUSTODY RECORD

…741

Page ____ of ____

Project Contact: Al Meyers / Lou Barnardo

Turn Around Requirements: 48 hours

Project No.: 771682

Project Name: West Point Village Farm

Sampler (print):

Signature:

Sample I.D. No.	Comp*	Grab	Date	Time	Protocol CWA	Protocol SW846	NUMBER OF SAMPLES	Hold	TCLP	ADDITIONAL REQUIREMENTS
VFB-1		X	8/13	1600			1		✓	
VFB-2		X	8/13				1		✓	
VFB-3		X	8/13				1		✓	
VF-C-1		X	8/13				1		✓	
VF-C-2		X	8/13				1		✓	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:
			Angelina R. Scott	8/14/98	0955	Cooler Temp: 6.0 / C of C Sealed / Sxs rec'd intact

*Homogenize all composite samples prior to analysis

White – Lab Yellow – Office Pink – Field

Work Order L9808248 Client It Corporation #of Samples 5 Due Date 8/17 Page 1

Sample #	Analyses	Reason	Removed By ADT	Removed From	Moved To	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
1-3	PCTs	Analy.	DPM 8/14/98/1030	Login	Wet	ArS				
1-3	MET	DIG	SJK 81498@1050	Walkin	MET	ArS	DKMS/14/98/1050	walk-in	ArS	STORAGE
04-05	TCLP	EXT	RWC 8.14.98@1105	WALK-IN	TCLP	ArS	SJK 081798@820	Archive	ArS	Archive
01	MET	DIG	SJK 81798@1150	Archive	MET	Big	FEK 8/14/98/1300	ARCHIVE	ArS	ARCHIVE
							SJK 81798@1500	Archive	[illegible]	Archive

KEMRON Enviro[illegible]tal Services
109 Star[illegible]e Park
Marietta, Ohio 45750
Phone: (740) 373-4071

IT Corporation
140 Allens Creek Road
Rochester, NY 14618

Attention: Pete Coutts

PO Number:
Account Number: ITCORPPA-520

Login #: L9808404
Report Date: 09/03/98
Work ID: WEST POINT VILLAGE
Date Received: 08/24/98

SAMPLE IDENTIFICATION

Sample Number	Sample Description
L9808404-01	VFB-4
L9808404-03	VF-1/WATER BOTTOM
L9808404-02	VF-C-3

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
Dennis S. Tepe

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVIC
REPORT NARRATIVE

Metals - 6010/7000:

Selenium:
Due to sample matrix interference detection limits for selenium were elevated based on post digestion spike recoveries.

Lab Sample ID: L9808404-01
Client Sample ID: VFB-4
Site/Work ID: WEST POINT VILLAGE

Matrix: Soil
Collected: 08/22/98 1700

% Solid: 92
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	% wt.	92		1.0	1	N/A	DKM	08/24/98	11:35	D2216-90
Silver, Total	mg/kg		ND	2.2	1	N/A	JYH	08/25/98	11:14	6010B\3050A
Arsenic, Total	mg/kg	12		5.4	1	N/A	JYH	08/25/98	11:14	6010B\3050A
Barium, Total	mg/kg	67		0.54	1	N/A	JYH	08/25/98	11:14	6010B\3050A
Cadmium, Total	mg/kg		ND	0.54	1	N/A	JYH	08/25/98	11:14	6010B\3050A
Chromium, Total	mg/kg	16		1.1	1	N/A	JYH	08/25/98	11:14	6010B\3050A
Mercury, Total	mg/kg		ND	0.27	1	N/A	ALC	08/25/98	09:37	7471A\7471A
Lead, Total	mg/kg	30		5.4	1	N/A	JYH	08/25/98	11:14	6010B\3050A
Selenium, Total	mg/kg		ND,L	0.41	1	N/A	RSS	08/25/98	13:15	7740

Lab Sample ID: L9808404-02
Client Sample ID: VF-C-3
Site/Work ID: WEST POINT VILLAGE

Matrix: Soil
Collected: 08/22/98 1700

% Solid: 85
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	% wt.	85		1.0	1	N/A	DKM	08/24/98	11:35	D2216-90
Silver, Total	mg/kg		ND	2.4	1	N/A	JYH	08/25/98	11:35	6010B\3050A
Arsenic, Total	mg/kg	12		5.9	1	N/A	JYH	08/25/98	11:35	6010B\3050A
Barium, Total	mg/kg	120		0.59	1	N/A	JYH	08/25/98	11:35	6010B\3050A
Cadmium, Total	mg/kg	1.2		0.59	1	N/A	JYH	08/25/98	11:35	6010B\3050A
Chromium, Total	mg/kg	23		1.2	1	N/A	JYH	08/25/98	11:35	6010B\3050A
Mercury, Total	mg/kg	0.36		0.29	1	N/A	ALC	08/25/98	09:37	7471A\7471A
Lead, Total	mg/kg	250		5.9	1	N/A	JYH	08/25/98	11:35	6010B\3050A
Selenium, Total	mg/kg		ND,L	0.41	1	N/A	RSS	08/25/98	13:15	7740

L = Reporting Limit

Login #L9808404
September 3, 1998 03:45 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9808404-03
Client Sample ID: VF-1/WATER BOTTOM
Site/Work ID: WEST POINT VILLAGE

Matrix: Water
Collected: 08/22/98 1700

COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Silver, Total	mg/L		ND	0.01	1	N/A	KHA	08/25/98	12:20	6010B\3005A
Arsenic, Total	mg/L	0.012		0.004	1	N/A	KHA	08/25/98	12:20	6010B\3005A
Barium, Total	mg/L	0.43		0.01	1	N/A	KHA	08/25/98	12:20	6010B\3005A
Cadmium, Total	mg/L		ND	0.01	1	N/A	KHA	08/25/98	12:20	6010B\3005A
Chromium, Total	mg/L	0.034		0.02	1	N/A	KHA	08/25/98	12:20	6010B\3005A
Mercury, Total	mg/L	0.00047		0.0002	1	N/A	MMB	08/25/98	13:19	7470A\7470A
Lead, Total	mg/L	0.89		0.005	1	N/A	KHA	08/25/98	12:20	6010B\3005A
Selenium, Total	mg/L		ND,L	0.0059	1	N/A	RSS	08/25/98	13:15	7740

L = Reporting Limit

Order #: 98-08-404
September 3, 1998 03:46 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG44931	R51063	L9808404-01		Soil	Percent Solids	D2216-90	DKM	22-AUG-1998	24-AUG-1998	11:35	Conventionals
WG44931	R51063	L9808404-02		Soil	Percent Solids	D2216-90	DKM	22-AUG-1998	24-AUG-1998	11:35	Conventionals
WG44950	R51084	L9808404-01		Soil	Selenium, Total	7740	RSS	22-AUG-1998	25-AUG-1998	13:15	Digestion
WG44950	R51084	L9808404-02		Soil	Selenium, Total	7740	RSS	22-AUG-1998	25-AUG-1998	13:15	Digestion
WG44952	R51079	L9808404-01		Soil	Mercury, Total	7471A\7471A	ALC	22-AUG-1998	25-AUG-1998	09:37	Digestion
WG44952	R51079	L9808404-02		Soil	Mercury, Total	7471A\7471A	ALC	22-AUG-1998	25-AUG-1998	09:37	Digestion
WG44954	R51078	L9808404-03		Water	Arsenic, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Digestion
WG44954	R51078	L9808404-03		Water	Barium, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Digestion
WG44954	R51078	L9808404-03		Water	Cadmium, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Digestion
WG44954	R51078	L9808404-03		Water	Chromium, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Digestion
WG44954	R51078	L9808404-03		Water	Lead, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Digestion
WG44954	R51078	L9808404-03		Water	Silver, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Digestion
WG44955	R51077	L9808404-01		Soil	Arsenic, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Digestion
WG44955	R51077	L9808404-01		Soil	Barium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Digestion
WG44955	R51077	L9808404-01		Soil	Cadmium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Digestion
WG44955	R51077	L9808404-01		Soil	Chromium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Digestion
WG44955	R51077	L9808404-01		Soil	Lead, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Digestion
WG44955	R51077	L9808404-01		Soil	Silver, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Digestion
WG44955	R51077	L9808404-02		Soil	Arsenic, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Digestion
WG44955	R51077	L9808404-02		Soil	Barium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Digestion
WG44955	R51077	L9808404-02		Soil	Cadmium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Digestion
WG44955	R51077	L9808404-02		Soil	Chromium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Digestion
WG44955	R51077	L9808404-02		Soil	Lead, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Digestion
WG44955	R51077	L9808404-02		Soil	Silver, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Digestion
WG44957	R51085	L9808404-03		Water	Selenium, Total	7740	RSS	22-AUG-1998	25-AUG-1998	13:15	Digestion
WG44994	R51079	L9808404-01		Soil	Mercury, Total	7471A\7471A	ALC	22-AUG-1998	25-AUG-1998	09:37	Metals - AA
WG44994	R51079	L9808404-02		Soil	Mercury, Total	7471A\7471A	ALC	22-AUG-1998	25-AUG-1998	09:37	Metals - AA
WG45001	R51078	L9808404-03		Water	Arsenic, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Metals - ICP
WG45001	R51078	L9808404-03		Water	Barium, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Metals - ICP
WG45001	R51078	L9808404-03		Water	Cadmium, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Metals - ICP
WG45001	R51078	L9808404-03		Water	Chromium, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Metals - ICP
WG45001	R51078	L9808404-03		Water	Lead, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Metals - ICP
WG45001	R51078	L9808404-03		Water	Silver, Total	6010B\3005A	KHA	22-AUG-1998	25-AUG-1998	12:20	Metals - ICP
WG45002	R51083	L9808404-03		Water	Mercury, Total	7470A\7470A	MMB	22-AUG-1998	25-AUG-1998	13:19	Digestion
WG45003	R51077	L9808404-01		Soil	Arsenic, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Metals - ICP
WG45003	R51077	L9808404-01		Soil	Barium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Metals - ICP

Order #: 98-08-404
September 3, 1998 03:46 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG45003	R51077	L9808404-01		Soil	Cadmium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Metals - ICP
WG45003	R51077	L9808404-01		Soil	Chromium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Metals - ICP
WG45003	R51077	L9808404-01		Soil	Lead, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Metals - ICP
WG45003	R51077	L9808404-01		Soil	Silver, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:14	Metals - ICP
WG45003	R51077	L9808404-02		Soil	Arsenic, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Metals - ICP
WG45003	R51077	L9808404-02		Soil	Barium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Metals - ICP
WG45003	R51077	L9808404-02		Soil	Cadmium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Metals - ICP
WG45003	R51077	L9808404-02		Soil	Chromium, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Metals - ICP
WG45003	R51077	L9808404-02		Soil	Lead, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Metals - ICP
WG45003	R51077	L9808404-02		Soil	Silver, Total	6010B\3050A	JYH	22-AUG-1998	25-AUG-1998	11:35	Metals - ICP
WG45021	R51083	L9808404-03		Water	Mercury, Total	7470A\7470A	MMB	22-AUG-1998	25-AUG-1998	13:19	Metals - AA
WG45025	R51085	L9808404-03		Water	Selenium, Total	7740	RSS	22-AUG-1998	25-AUG-1998	13:15	Metals - AA
WG45026	R51084	L9808404-01		Soil	Selenium, Total	7740	RSS	22-AUG-1998	25-AUG-1998	13:15	Metals - AA
WG45026	R51084	L9808404-02		Soil	Selenium, Total	7740	RSS	22-AUG-1998	25-AUG-1998	13:15	Metals - AA

KEMRON ANALYST LIST

Ohio Valley Laboratory

07/06/98

ALC -- Ann L. Clark
BAD -- Becky A. Diehl
BWH -- Ben W. Haynes
CEB -- Chad E. Barnes
CDB -- Christy D. Burton
CLH -- Chris L. Hurst
CMS -- Crystal M. Stevens
CRC -- Carla R. Cochran
DIH -- Deanna I. Hesson
DKM -- Dewey K. Miller
DLN -- Deanna L. Norton
DLP -- Dorothy L. Payne
ECL -- Eric C. Lawson
FEH -- Fay E. Harmon
HV -- Hema Vilasagar
JLH -- Janice L. Holland
JMM -- Jim M. Monk
JWR -- John W. Richards
JYH -- Ji Y. Hu
KHA -- Kim H. Archer
KMM -- Kevin M. McDonald
KMS -- Kevin M. Stutler
KRA -- Kathy R. Albertson

MDA -- Mike D. Albertson
MDC -- Michael D. Cochran
MES -- Mary E. Schilling
MLS -- Michael L. Schimmel
MMB -- Maren M. Beery
RDC -- Rebecca D. Cutlip
RDS -- Rebecca D. Sutton
REF -- Ron E. Fertile
REK -- Robert E. Kyer
RSS -- Regina S. Simmons
RWC -- Rodney W. Campbell
SJK -- Sindy J. Kinney
SJM -- Shawn J. Marshall
SKH -- Shellie K. Hamrick
SLJ -- Susan L. Johnson
SLP -- Sheri L. Pfalzgraf
SLT -- Stephanie L. Tepe
SMW -- Shauna M. Welch
SPL -- Steve P. Learn
TJW -- Thomas J. Ware
TRS -- Todd R. Stack
VC -- Vicki Collier
VMN -- Vincent M. Nedeff

KEMRON Environmental Services, Inc.
AFCEE QUALIFIERS (qual)
April 29, 1998

Qualifier	Description
J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected, The associated numerical value is at or below the MDL.
F	The analyte was positively identified but the associated numerical value is below the RL.
R	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
B	The analyte was found in an associated blank, as well as in the sample.
M	A matrix effect was present
S	To be applied to all filed screening data
T	Tentatively identified compound (using GC/MS)

INORGANIC QA/QC

KEMRON
ENVIRONMENTAL SERVICES

KEMRON E[illegible]ENTAL SERVICES
OHIO VALLE[illegible]RATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG45021
METHOD: 7470
MATRIX: Water
UNITS: mg/l
INSTRUMENT: Leeman PS 200

RUN DATE: 6/26/98
PREP DATE: 6/25/98
ANALYST: MMB

ANALYTE	RDL	Blank	CONCENTRATION PPB T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	PERCENT RECOVERY LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	PERCENT RPD REP RPD	MS RPD	RPD UCL
Mercury	0.0002	ND	0.0010	0.00099	0.00050	0.00003	ND	0.0010	0.00071	0.00069	99.1	80.0	120.0	71.1	68.9	75.0	125.0	24.2	3.1	20

NOTES & DEFINITIONS :
RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

... LABORATORY
QUALITY C... TROL SUMMARY

WO... UP: WG45001
METHOD: 6010A
MATRIX: Water
UNITS: mg/L
INSTRUMENT: Perkin Elmer Optima 3000 DV

RUN DATE: 8/25/98
PREP DATE: 8/24/98
ANALYST: KHA

ANALYTE	RDL	Blank	CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Silver	0.010	ND	0.200	0.193	ND	ND	ND	0.200	0.197	0.199	96.5	80.0	120.0	98.5	99.5	80.0	120.0	NA	1.0	20
Aluminum	0.100	ND	10.000	9.460	ND	ND	0.170	10.000	10.100	10.200	94.6	80.0	120.0	99.3	100.3	80.0	120.0	NA	1.0	20
Arsenic	0.004	ND	1.000	0.925	ND	ND	ND	1.000	0.936	0.940	92.5	80.0	120.0	93.6	94.0	80.0	120.0	NA	0.4	20
Barium	0.010	ND	10.000	8.800	0.039	0.041	0.068	10.000	8.480	8.490	88.0	80.0	120.0	84.1	84.2	80.0	120.0	5.0	0.1	20
Cadmium	0.010	ND	1.000	0.923	ND	ND	ND	1.000	0.927	0.930	92.3	80.0	120.0	92.7	93.0	80.0	120.0	NA	0.3	20
Chromium	0.020	ND	1.000	0.973	ND	ND	ND	1.000	0.931	0.933	97.3	80.0	120.0	93.1	93.3	80.0	120.0	NA	0.2	20
Iron	0.040	ND	1.000	0.868	0.335	0.352	0.240	1.000	1.020	1.050	86.8	80.0	120.0	78.0	81.0	80.0	120.0	4.9	2.9	20
Nickel	0.040	ND	1.000	0.955	ND	ND	ND	1.000	0.911	0.910	95.5	80.0	120.0	91.1	91.0	80.0	120.0	NA	0.1	20
Lead	0.005	ND	1.000	0.950	ND	ND	ND	1.000	0.910	0.910	95.0	80.0	120.0	91.0	91.0	80.0	120.0	NA	0.0	20
Zinc	0.010	ND	1.000	0.925	ND	ND	ND	1.000	0.870	0.863	92.5	80.0	120.0	87.0	86.3	80.0	120.0	NA	0.8	20
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

WORKGROUP: WG44994
METHOD: 7471A
MATRIX: Soil
UNITS: mg/kg
INSTRUMENT: Leeman PS 200

RUN DATE: 8/25/98
PREP DATE: 8/24/98
ANALYST: ALC

ANALYTE	RDL	Blank	CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.2500	ND	0.1670	0.1500	ND	ND	ND	1.0000	0.7250	0.8590	89.6	80.0	120.0	72.5	85.9	75.0	125.0	NA	16.9	20.0

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGRDUP: wg45026
METHOD: 7060
MATRIX: Soil
UNITS: mg/kg
INSTRUMENT: Perkin Elmer

RUN DATE: 8/25,31/98
PREP DATE: 8/24/98
Analyst: RSS

ANALYTE	RDL	Blank	CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Selenium	0.2000	ND	2.5000	2.4500	ND	ND	ND	2.5000	1.5500	1.4500	98.0	80.0	120.0	62.0	58.0	75.0	125.0	NA	6.67	20

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES
OHIO VAL [redacted] BORATORY
QUALITY C [redacted] L SUMMARY

WORKGROUP: WG45003
METHOD: 6010A
MATRIX: soil
UNITS: mg/kg
INSTRUMENT: Thermo Jarrell Ash

RUN DATE: 8/25/98
PREP DATE: 8/24/98
ANALYST: JYH

ANALYTE	RDL	Blank	CONCENTRATION PPM							PERCENT RECOVERY							PERCENT		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Silver	2.000	ND	10.000	9.110	ND	ND	ND	10.000	9.170	8.970	91.1	80.0	120.0	91.7	89.7	80.0	120.0			
Aluminum	5.000	ND	828.000	657.000	4720.000	1860.000	2530.000	500.000	DL	DL	104.6	80.0	120.0	#VALUE!	#VALUE!	80.0	120.0	NA	2.21	20
Arsenic	5.000	ND	50.000	47.700	5.030	ND	ND	50.000	46.100	47.900	95.4	80.0	120.0	90.2	95.8	80.0	120.0	86.06	#VALUE!	20
Barium	0.500	ND	500.000	479.000	54.000	19.800	10.300	500.000	482.000	488.000	95.8	80.0	120.0	94.3	91.5	80.0	120.0	NA	6.02	20
Beryllium	0.500	ND	50.010	46.900	ND	ND	ND	50.000	46.400	45.200	93.8	80.0	120.0	92.8	90.4	80.0	120.0	92.68	2.65	20
Calcium	10.000	ND	500.810	461.000	524.000	471.000	1320.000	500.000	2340.000	2450.000	92.0	80.0	120.0	204.0	220.0	80.0	120.0	NA	2.62	20
Cadmium	0.500	ND	50.000	45.200	ND	ND	ND	50.000	46.100	44.200	90.4	80.0	120.0	90.2	88.4	80.0	120.0	10.85	4.59	20
Cobalt	1.000	ND	50.000	46.400	1.330	ND	3.210	50.000	48.400	47.800	92.8	80.0	120.0	90.4	89.2	80.0	120.0	NA	2.02	20
Chromium	1.000	ND	50.000	46.900	1.920	ND	5.350	50.000	46.100	45.500	93.8	80.0	120.0	89.4	87.8	80.0	120.0	NA	1.25	20
Copper	1.000	ND	50.000	47.500	2.260	ND	6.280	50.000	54.000	51.400	95.0	80.0	120.0	95.4	90.2	80.0	120.0	NA	1.44	20
Iron	2.000	ND	103.340	105.000	8760.000	7660.000	8470.000	50.000	DL	DL	101.5	80.0	120.0	#VALUE!	#VALUE!	80.0	120.0	NA	4.93	20
Potassium	50.000	ND	2500.000	2420.000	811.000	225.000	209.000	2500.000	2740.000	2700.000	96.8	80.0	120.0	101.2	99.6	80.0	120.0	24.16	#VALUE!	20
Magnesium	25.000	ND	500.000	467.000	1240.000	112.000	1230.000	500.000	2030.000	2140.000	93.4	80.0	120.0	100.0	102.0	80.0	120.0	113.13	1.47	20
Manganese	0.500	ND	50.000	46.800	158.000	105.000	73.400	50.000	132.000	152.000	93.2	80.0	120.0	117.2	157.2	80.0	120.0	168.88	5.26	20
Sodium	25.000	ND	2600.000	2410.000	115.000	93.200	58.200	2500.000	2450.000	2410.000	96.4	80.0	120.0	95.8	94.2	80.0	120.0	40.30	14.08	20
Nickel	2.000	ND	50.000	46.100	3.370	ND	5.360	50.000	51.700	51.400	92.2	80.0	120.0	92.7	92.1	80.0	120.0	20.84	1.85	20
Lead	5.000	ND	50.320	46.600	10.900	ND	ND	50.000	47.300	45.300	90.6	80.0	120.0	94.6	90.6	80.0	120.0	NA	0.56	20
Antimony	10.000	ND	50.000	46.200	ND	ND	ND	50.000	45.400	43.500	92.4	80.0	120.0	90.8	87.0	80.0	120.0	NA	4.32	20
Selenium	5.000	ND	50.000	46.400	ND	ND	ND	50.000	47.200	45.700	92.8	80.0	120.0	94.4	91.4	80.0	120.0	NA	4.27	20
Vanadium	0.500	ND	50.000	46.600	5.650	2.770	16.100	50.000	67.800	64.700	93.2	80.0	120.0	103.0	97.2	80.0	120.0	NA	3.23	20
Zinc	1.000	ND	50.690	46.000	110.000	12.800	10.300	50.000	50.400	51.900	90.7	80.0	120.0	92.2	95.0	80.0	120.0	68.41	4.38	20
																		156.31	2.45	20
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON
ENVIRONMENTAL SERVICES

CHAIN-OF-CUSTODY RECORD

95743

Page ______ of ______

Project Contact: Al Meyers

Turn Around Requirements: 24 hours

Project No.:

Project Name: West Point Village

Sampler (print): Louis Bernardo

Signature: Louis Bernardo

Sample I.D. No.	Comp*	Grab	Date	Time	Protocol CWA	Protocol SW846	NUMBER OF SAMPLES	Hold	[illegible]	[illegible]	ADDITIONAL REQUIREMENTS
VF-BS 1-		✓	8/22/05	1200		X	1	/	✓		
VFS-2		✓	8/22/05	1200		X	1	/	✓		
VFS-3		✓	8/22/05	1200		X	1	/	✓		
VFB-4		✓	8/22/05	1200		X	1	/	✓		
VF-C-3	✓		8/22/05	1200		X	1	/	✓		
VF-C-4	✓		8/22/05	1200		X	1	/	/		
VF-1 Water Bottom			8/22/05	1200			1	/		/	
VF-1 Water Bottom			8/22/05	1200			1	/		/	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:
			[illegible signature]	[illegible]	0820	cooler temp 10.0 / [illegible]

*Homogenize all composite samples prior to analysis

White – Lab   Office   Pink – Field

COOLER RECEIPT FORM

Contractor Cooler _____
MRD Cooler # _____
Number of Coolers 1

PROJECT: West Point Village LIMS# L9808404

USE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONERNING CHECK-IN PROBLEMS

A. **PRELIMINARY EXAMINATION PHASE:** Date cooler opened: 8/24/98 C-of-C Number: 95743
by (print) Brenda Gregory (sign) Brenda Gregory

1. Did cooler come with a shipping slip (air bill, etc.)? ..... (YES) NO
   If YES, enter carrier name & air bill number here: Fed Ex - 804084370380
2. Were custody seals on outside of cooler? ..... YES (NO)
   How many & where? DUCT Tape seal date: ——— seal name: ———
3. Were custody seals unbroken and intact at the data and time of arrival? ..... (YES) NO
4. Did you screen samples for radioactivity using the Geiger Counter? ..... (YES) NO
5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... (YES) NO
6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES (NO)
7. Did you sign custody papers in the appropriate place? ..... (YES)
8. Was project identifiable from custody papers? If yes, enter project name at the top of this form ..... (YES) NO
9. If required, was enough ice used? ..... Type of ice: wet Temp 10.0 °C ..... YES (NO)
10. Have designated person initial here to acknowledge receipt of cooler: AVS (date) 8/24

B. **LOG-IN PHASE:** Date samples were logged-in: 8/24/98
by (print) Brenda Gregory (sign) Brenda Gregory

11. Describe type of packing in cooler: Baggies
12. Were all bottles sealed in separate plastic bags? ..... (YES) NO
13. Did all bottles arrive unbroken & were labels in good condition? ..... (YES) NO
14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
15. Did all bottle labels agree with custody papers? ..... (YES) NO
16. Were correct containers used for the tests indicated? ..... (YES) NO
17. Were correct preservatives added to samples? ..... (YES) NO
18. Was a sufficient amount of sample sent for tests indicated? ..... (YES)
19. Were bubbles absent in volatile samples? If NO, list by Sample # _____ ~~YES~~ NO
20. Was the project manager called and status discussed? If YES, give details on the back of this form ..... YES NO
21. Who was called? A. Meyers By whom? P Lane (date) 8/24/98

*Water in VFB-S-1 VFS-2, VFB-4 & VFC-4.

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792

Attention: Al Meyers

PO Number:
Account Number: ITCORPPA-520

Login #: L9808466
Report Date: 08/28/98
Work ID: WEST POINT VILLAGE/PRV. 08-404
Date Received: 08/24/98

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L9808466-01	VF-C-3		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Maren M Beery

Certified By
Maren M. Beery

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L9808466-01
Client Sample ID: VF-C-3
Site/Work ID: WEST POINT VILLAGE/PRV. 08-404

Matrix: Soil
Collected: 08/22/98 1700
Units: mg/L

COC Info: N/A
TCLP Ext. Date: 08/26/98

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Silver.....		ND	0.10	5	6010B\3015\1311	08/27/98	08/28/98	12:50	N/A
Arsenic.....		ND	1.0	5	6010B\3015\1311	08/27/98	08/28/98	12:50	N/A
Barium.....	0.51		0.10	100	6010B\3015\1311	08/27/98	08/28/98	12:50	N/A
Cadmium.....		ND	0.10	1	6010B\3015\1311	08/27/98	08/28/98	12:50	N/A
Chromium.....		ND	0.20	5	6010B\3015\1311	08/27/98	08/28/98	12:50	N/A
Mercury.....		ND	0.005	0.2	7470\7470\1311	08/27/98	08/28/98	09:40	N/A
Lead.....		ND	1.0	5	6010B\3015\1311	08/27/98	08/28/98	12:50	N/A
Selenium.....		ND	1.0	1	6010B\3015\1311	08/27/98	08/28/98	12:50	N/A

L = Reporting Limit

Order #: 98-08-466
August 28, 1998 04:35 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG45104	R51459	L9808466-01		Soil	Mercury, TCLP	7470\7470\1311	ALC	22-AUG-1998	28-AUG-1998	09:40	TCLP Prep.
WG45173	R51461	L9808466-01		Soil	Arsenic, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Digestion
WG45173	R51461	L9808466-01		Soil	Barium, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Digestion
WG45173	R51461	L9808466-01		Soil	Cadmium, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Digestion
WG45173	R51461	L9808466-01		Soil	Chromium, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Digestion
WG45173	R51461	L9808466-01		Soil	Lead, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Digestion
WG45173	R51461	L9808466-01		Soil	Selenium, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Digestion
WG45173	R51461	L9808466-01		Soil	Silver, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Digestion
WG45174	R51459	L9808466-01		Soil	Mercury, TCLP	7470\7470\1311	ALC	22-AUG-1998	28-AUG-1998	09:40	Digestion
WG45244	R51459	L9808466-01		Soil	Mercury, TCLP	7470\7470\1311	ALC	22-AUG-1998	28-AUG-1998	09:40	Metals - AA
WG45254	R51461	L9808466-01		Soil	Arsenic, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Metals - ICP
WG45254	R51461	L9808466-01		Soil	Barium, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Metals - ICP
WG45254	R51461	L9808466-01		Soil	Cadmium, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Metals - ICP
WG45254	R51461	L9808466-01		Soil	Chromium, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Metals - ICP
WG45254	R51461	L9808466-01		Soil	Lead, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Metals - ICP
WG45254	R51461	L9808466-01		Soil	Selenium, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Metals - ICP
WG45254	R51461	L9808466-01		Soil	Silver, TCLP	6010B\3015\1311	JYH	22-AUG-1998	28-AUG-1998	12:50	Metals - ICP

KEMRON ANALYST LIST

Ohio Valley Laboratory

07/06/98

ALC -- Ann L. Clark
BAD -- Becky A. Diehl
BWH -- Ben W. Haynes
CEB -- Chad E. Barnes
CDB -- Christy D. Burton
CLH -- Chris L. Hurst
CMS -- Crystal M. Stevens
CRC -- Carla R. Cochran
DIH -- Deanna I. Hesson
DKM -- Dewey K. Miller
DLN -- Deanna L. Norton
DLP -- Dorothy L. Payne
ECL -- Eric C. Lawson
FEH -- Fay E. Harmon
HV -- Hema Vilasagar
JLH -- Janice L. Holland
JMM -- Jim M. Monk
JWR -- John W. Richards
JYH -- Ji Y. Hu
KHA -- Kim H. Archer
KMM -- Kevin M. McDonald
KMS -- Kevin M. Stutler
KRA -- Kathy R. Albertson
MDA -- Mike D. Albertson
MDC -- Michael D. Cochran
MES -- Mary E. Schilling
MLS -- Michael L. Schimmel
MMB -- Maren M. Beery
RDC -- Rebecca D. Cutlip
RDS -- Rebecca D. Sutton
REF -- Ron E. Fertile
REK -- Robert E. Kyer
RSS -- Regina S. Simmons
RWC -- Rodney W. Campbell
SJK -- Sindy J. Kinney
SJM -- Shawn J. Marshall
SKH -- Shellie K. Hamrick
SLJ -- Susan L. Johnson
SLP -- Sheri L. Pfalzgraf
SLT -- Stephanie L. Tepe
SMW -- Shauna M. Welch
SPL -- Steve P. Learn
TJW -- Thomas J. Ware
TRS -- Todd R. Stack
VC -- Vicki Collier
VMN -- Vincent M. Nedeff

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS (qual)
March 9, 1998

Qualifier	Description
(A)	See the report narrative
(B)	See the report narrative
(C)	See the report narrative
+	Correlation coefficient for the MSA is less than 0.995
<	Less than
>	Greater than
B	Present in the method blank
C	Confirmed by GC/MS
*	Surrogate or spike compound out of range
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
F	Present below nominal reporting limit (AFCEE only)
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met

Qualifier	Description
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration > 25% difference between the two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out of control limits
X	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

INORGANIC QA/QC

Kemron
ENVIRONMENTAL SERVICES

KEMRON EN[illegible]ENTAL SERVICES
OHIO VALLEY L[illegible]RATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG45254
METHOD: 6010A
MATRIX: TCLP
UNITS: mg/l
INSTRUMENT: Thermo Jarrell Ash

RUN DATE: 8/28/98
PREP DATE: 8/27/98
ANALYST: JYH

ANALYTE	RDL	Blank	CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Arsenic	1.000	ND	1.000	1.050	ND	ND	ND	10.000	10.400	10.700	105.0	80.0	120.0	104.0	107.0	80.0	120.0	NA	2.84	20
Barium	0.100	ND	10.000	9.280	0.583	0.612	ND	100.000	85.800	88.100	92.8	80.0	120.0	85.8	88.1	80.0	120.0	4.85	2.65	20
Cadmium	0.100	ND	1.000	1.010	ND	ND	ND	10.000	10.100	10.200	101.0	80.0	120.0	101.0	102.0	80.0	120.0	NA	0.99	20
Chromium	0.200	ND	1.000	1.020	ND	ND	0.524	10.000	10.700	10.900	102.0	80.0	120.0	101.8	103.8	80.0	120.0	NA	1.85	20
Lead	1.000	ND	1.000	1.080	19.700	20.200	ND	10.000	11.500	11.400	108.0	80.0	120.0	116.0	114.0	80.0	120.0	2.51	0.87	20
Selenium	1.000	ND	1.000	1.020	ND	ND	NA	10.000	10.100	9.810	102.0	80.0	120.0	#VALUE!	#VALUE!	80.0	120.0	NA	2.91	20
Silver	0.100	ND	0.200	0.190	ND	ND	ND	2.000	1.760	1.870	95.0	80.0	120.0	87.5	93.5	80.0	120.0	NA	6.63	20
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON EN[illegible]IENTAL SERVICES
OHIO VALLEY [illegible]RATORY
QUALITY CONTR[illegible] SUMMARY

WORKGROUP: WG45244
METHOD: 7470
MATRIX: Water
UNITS: mg/l
INSTRUMENT: Leeman PS 200

RUN DATE: 8/28/98
PREP DATE: 8/27/98
ANALYST: ALC

ANALYTE	RDL	Blank	CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.0002	ND	0.0010	0.00097	ND	ND	ND	0.0010	NA	NA	96.6	80.0	120.0	NA	NA	75.0	125.0	NA	NA	20

NOTES & DEFINITIONS :
RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

Work Order L9808466 **Client** ITCORP **#of Samples** 01 **Due Date** 8/28 **Page** 1

Sample #	Analyses	Reason	Removed By ADT	Removed From	MovedTo	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
01	TCLP	EXT	RWC 08-26-98 @ ~~1340~~ 1540	Log-IN	TCLP	Big	RWC 8-26-98 @1555	Archive	Big	Archive

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792

Attention: Al Meyers

PO Number:
Account Number: ITCORPPA-520

Login #: L9808481
Report Date: 08/28/98
Work ID: 776182/VILLAGE FARM LANDFILL
Date Received: 08/27/98

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L9808481-01	VFE10	L9808481-02	VFS20
L9808481-03	VFS10	L9808481-04	VFB10
L9808481-05	VFC-10A	L9808481-06	VFC-11A
L9808481-07	VFC-12A	L9808481-08	VFC-13A
L9808481-09	VFC-14A		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
Maren M. Beery

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9808481-01
ient Sample ID: VFE10
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1600

% Solid: 85
COC Info: N/A

alyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
rcent Solids.....	% wt.	85		1.0	1	N/A	DIH	08/27/98	13:45	D2216-90
lver, Total.....	mg/kg		ND	2.4	1	N/A	JYH	08/28/98	10:42	6010B\3050A
senic, Total.....	mg/kg	18		5.9	1	N/A	JYH	08/28/98	10:42	6010B\3050A
rium, Total.....	mg/kg	100		0.59	1	N/A	JYH	08/28/98	10:42	6010B\3050A
dmium, Total.....	mg/kg	1.1		0.59	1	N/A	JYH	08/28/98	10:42	6010B\3050A
romium, Total.....	mg/kg	22		1.2	1	N/A	JYH	08/28/98	10:42	6010B\3050A
rcury, Total.....	mg/kg		ND	0.29	1	N/A	ALC	08/28/98	11:28	7471A\7471A
ad, Total.....	mg/kg	210		5.9	1	N/A	JYH	08/28/98	10:42	6010B\3050A
lenium, Total.....	mg/kg		ND	0.24	1	N/A	RSS	08/28/98	10:27	7740

Lab Sample ID: L9808481-02
ient Sample ID: VFS20
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1605

% Solid: 82
COC Info: N/A

alyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
rcent Solids.....	% wt.	82		1.0	1	N/A	DIH	08/27/98	13:45	D2216-90
lver, Total.....	mg/kg		ND	2.4	1	N/A	JYH	08/28/98	10:46	6010B\3050A
senic, Total.....	mg/kg	13		6.1	1	N/A	JYH	08/28/98	10:46	6010B\3050A
rium, Total.....	mg/kg	110		0.61	1	N/A	JYH	08/28/98	10:46	6010B\3050A
dmium, Total.....	mg/kg	1.5		0.61	1	N/A	JYH	08/28/98	10:46	6010B\3050A
romium, Total.....	mg/kg	23		1.2	1	N/A	JYH	08/28/98	10:46	6010B\3050A
rcury, Total.....	mg/kg	1.5		0.30	1	N/A	ALC	08/28/98	11:28	7471A\7471A
ad, Total.....	mg/kg	230		6.1	1	N/A	JYH	08/28/98	10:46	6010B\3050A
lenium, Total.....	mg/kg		ND	0.24	1	N/A	RSS	08/28/98	10:27	7740

= Reporting Limit

Lab Sample ID: L9808481-03
ient Sample ID: VFS10
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1600

% Solid: 82
COC Info: N/A

alyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
rcent Solids.....	% wt.	82		1.0	1	N/A	DIH	08/27/98	13:45	D2216-90
lver, Total.....	mg/kg		ND	2.4	1	N/A	JYH	08/28/98	10:50	6010B\3050A
senic, Total.....	mg/kg	22		6.1	1	N/A	JYH	08/28/98	10:50	6010B\3050A
rium, Total.....	mg/kg	120		0.61	1	N/A	JYH	08/28/98	10:50	6010B\3050A
dmium, Total.....	mg/kg	2.0		0.61	1	N/A	JYH	08/28/98	10:50	6010B\3050A
romium, Total.....	mg/kg	27		1.2	1	N/A	JYH	08/28/98	10:50	6010B\3050A
rcury, Total.....	mg/kg		ND	0.30	1	N/A	ALC	08/28/98	11:28	7471A\7471A
ad, Total.....	mg/kg	270		6.1	1	N/A	JYH	08/28/98	10:50	6010B\3050A
lenium, Total.....	mg/kg		ND	0.24	1	N/A	RSS	08/28/98	10:27	7740

Lab Sample ID: L9808481-04
ient Sample ID: VFB10
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1545

% Solid: 82
COC Info: N/A

alyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
rcent Solids.....	% wt.	82		1.0	1	N/A	DIH	08/27/98	13:45	D2216-90
lver, Total.....	mg/kg		ND	2.4	1	N/A	JYH	08/28/98	11:31	6010B\3050A
senic, Total.....	mg/kg	19		6.1	1	N/A	JYH	08/28/98	11:31	6010B\3050A
rium, Total.....	mg/kg	110		0.61	1	N/A	JYH	08/28/98	11:31	6010B\3050A
dmium, Total.....	mg/kg	0.93		0.61	1	N/A	JYH	08/28/98	11:31	6010B\3050A
romium, Total.....	mg/kg	26		1.2	1	N/A	JYH	08/28/98	11:31	6010B\3050A
rcury, Total.....	mg/kg		ND	0.30	1	N/A	ALC	08/28/98	11:28	7471A\7471A
ad, Total.....	mg/kg	230		6.1	1	N/A	JYH	08/28/98	11:31	6010B\3050A
lenium, Total.....	mg/kg		ND	0.24	1	N/A	RSS	08/28/98	10:27	7740

- Reporting Limit

Lab Sample ID: L9808481-05
ient Sample ID: VFC-10A
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1500

% Solid: 82
COC Info: N/A

alyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
rcent Solids.....	% wt.	82		1.0	1	N/A	DIH	08/27/98	13:45	D2216-90
lver, Total.....	mg/kg		ND	2.4	1	N/A	JYH	08/28/98	11:35	6010B\3050A
senic, Total.....	mg/kg	12		6.1	1	N/A	JYH	08/28/98	11:35	6010B\3050A
rium, Total.....	mg/kg	97		0.61	1	N/A	JYH	08/28/98	11:35	6010B\3050A
dmium, Total.....	mg/kg	0.92		0.61	1	N/A	JYH	08/28/98	11:35	6010B\3050A
romium, Total.....	mg/kg	21		1.2	1	N/A	JYH	08/28/98	11:35	6010B\3050A
rcury, Total.....	mg/kg		ND	0.30	1	N/A	ALC	08/28/98	11:28	7471A\7471A
ad, Total.....	mg/kg	230		6.1	1	N/A	JYH	08/28/98	11:35	6010B\3050A
lenium, Total.....	mg/kg	0.29		0.24	1	N/A	RSS	08/28/98	10:27	7740

Lab Sample ID: L9808481-06
ient Sample ID: VFC-11A
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1505

% Solid: 77
COC Info: N/A

alyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
rcent Solids.....	% wt.	77		1.0	1	N/A	DIH	08/27/98	13:45	D2216-90
lver, Total.....	mg/kg		ND	2.6	1	N/A	JYH	08/28/98	11:39	6010B\3050A
senic, Total.....	mg/kg	17		6.5	1	N/A	JYH	08/28/98	11:39	6010B\3050A
rium, Total.....	mg/kg	110		0.65	1	N/A	JYH	08/28/98	11:39	6010B\3050A
dmium, Total.....	mg/kg	1.4		0.65	1	N/A	JYH	08/28/98	11:39	6010B\3050A
romium, Total.....	mg/kg	22		1.3	1	N/A	JYH	08/28/98	11:39	6010B\3050A
rcury, Total.....	mg/kg		ND	0.32	1	N/A	ALC	08/28/98	11:28	7471A\7471A
ad, Total.....	mg/kg	280		6.5	1	N/A	JYH	08/28/98	11:39	6010B\3050A
lenium, Total.....	mg/kg		ND	0.26	1	N/A	RSS	08/28/98	10:27	7740

= Reporting Limit

Lab Sample ID: L9808481-07
ient Sample ID: VFC-12A
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1510

% Solid: 83
COC Info: N/A

alyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
rcent Solids.....	% wt.	83		1.0	1	N/A	DIH	08/27/98	13:45	D2216-90
lver, Total.....	mg/kg		ND	2.4	1	N/A	JYH	08/28/98	11:43	6010B\3050A
senic, Total.....	mg/kg	15		6.0	1	N/A	JYH	08/28/98	11:43	6010B\3050A
rium, Total.....	mg/kg	88		0.60	1	N/A	JYH	08/28/98	11:43	6010B\3050A
dmium, Total.....	mg/kg	1.3		0.60	1	N/A	JYH	08/28/98	11:43	6010B\3050A
romium, Total.....	mg/kg	19		1.2	1	N/A	JYH	08/28/98	11:43	6010B\3050A
rcury, Total.....	mg/kg		ND	0.30	1	N/A	ALC	08/28/98	11:28	7471A\7471A
ad, Total.....	mg/kg	210		6.0	1	N/A	JYH	08/28/98	11:43	6010B\3050A
lenium, Total.....	mg/kg		ND	0.24	1	N/A	RSS	08/28/98	10:27	7740

Lab Sample ID: L9808481-08
ient Sample ID: VFC-13A
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1515

% Solid: 83
COC Info: N/A

alyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
rcent Solids.....	% wt.	83		1.0	1	N/A	DIH	08/27/98	13:45	D2216-90
lver, Total.....	mg/kg		ND	2.4	1	N/A	JYH	08/28/98	11:47	6010B\3050A
senic, Total.....	mg/kg	16		6.0	1	N/A	JYH	08/28/98	11:47	6010B\3050A
rium, Total.....	mg/kg	94		0.60	1	N/A	JYH	08/28/98	11:47	6010B\3050A
dmium, Total.....	mg/kg	0.67		0.60	1	N/A	JYH	08/28/98	11:47	6010B\3050A
romium, Total.....	mg/kg	23		1.2	1	N/A	JYH	08/28/98	11:47	6010B\3050A
rcury, Total.....	mg/kg	1.4		0.30	1	N/A	ALC	08/28/98	11:28	7471A\7471A
ad, Total.....	mg/kg	200		6.0	1	N/A	JYH	08/28/98	11:47	6010B\3050A
lenium, Total.....	mg/kg		ND	0.24	1	N/A	RSS	08/28/98	10:27	7740

Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9808481-09
ient Sample ID: VFC-14A
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1520

% Solid: 84
COC Info: N/A

alyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
rcent Solids.....	% wt.	84		1.0	1	N/A	DIH	08/27/98	13:45	D2216-90
lver, Total.....	mg/kg		ND	2.4	1	N/A	JYH	08/28/98	11:51	6010B\3050A
senic, Total.....	mg/kg	19		6.0	1	N/A	JYH	08/28/98	11:51	6010B\3050A
rium, Total.....	mg/kg	100		0.60	1	N/A	JYH	08/28/98	11:51	6010B\3050A
dmium, Total.....	mg/kg	1.5		0.60	1	N/A	JYH	08/28/98	11:51	6010B\3050A
romium, Total.....	mg/kg	21		1.2	1	N/A	JYH	08/28/98	11:51	6010B\3050A
rcury, Total.....	mg/kg		ND	0.30	1	N/A	ALC	08/28/98	11:28	7471A\7471A
ad, Total.....	mg/kg	210		6.0	1	N/A	JYH	08/28/98	11:51	6010B\3050A
lenium, Total.....	mg/kg		ND	0.24	1	N/A	RSS	08/28/98	10:27	7740

= Reporting Limit

Order #: 98-08-481
August 28, 1998 04:35 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
G45192	R51456	L9808481-01		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Digestion
G45192	R51456	L9808481-02		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Digestion
G45192	R51456	L9808481-03		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Digestion
G45192	R51456	L9808481-04		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Digestion
G45192	R51456	L9808481-05		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Digestion
G45192	R51456	L9808481-06		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Digestion
G45192	R51456	L9808481-07		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Digestion
G45192	R51456	L9808481-08		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Digestion
G45192	R51456	L9808481-09		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Digestion
G45193	R51454	L9808481-01		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Digestion
G45193	R51454	L9808481-02		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Digestion
G45193	R51454	L9808481-03		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Digestion
G45193	R51454	L9808481-04		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Digestion
G45193	R51454	L9808481-05		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Digestion
G45193	R51454	L9808481-06		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Digestion
G45193	R51454	L9808481-07		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Digestion
G45193	R51454	L9808481-08		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Digestion
G45193	R51454	L9808481-09		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Digestion
G45194	R51462	L9808481-01		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Digestion
G45194	R51462	L9808481-01		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Digestion
G45194	R51462	L9808481-01		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Digestion
G45194	R51462	L9808481-01		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Digestion
G45194	R51462	L9808481-01		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Digestion
G45194	R51462	L9808481-01		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Digestion
G45194	R51462	L9808481-02		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Digestion
G45194	R51462	L9808481-02		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Digestion
G45194	R51462	L9808481-02		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Digestion
G45194	R51462	L9808481-02		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Digestion
G45194	R51462	L9808481-02		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Digestion
G45194	R51462	L9808481-02		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Digestion
G45194	R51462	L9808481-03		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Digestion
G45194	R51462	L9808481-03		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Digestion
G45194	R51462	L9808481-03		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Digestion
G45194	R51462	L9808481-03		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Digestion
G45194	R51462	L9808481-03		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Digestion
G45194	R51462	L9808481-03		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Digestion
G45194	R51462	L9808481-04		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Digestion
G45194	R51462	L9808481-04		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Digestion
G45194	R51462	L9808481-04		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Digestion
G45194	R51462	L9808481-04		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Digestion
G45194	R51462	L9808481-04		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Digestion
G45194	R51462	L9808481-04		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Digestion
G45194	R51462	L9808481-05		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Digestion

Order #: 98-08-481
August 28, 1998 04:35 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG45194	R51462	L9808481-05		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Digestion
WG45194	R51462	L9808481-05		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Digestion
WG45194	R51462	L9808481-05		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Digestion
WG45194	R51462	L9808481-05		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Digestion
WG45194	R51462	L9808481-05		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Digestion
WG45194	R51462	L9808481-06		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Digestion
WG45194	R51462	L9808481-06		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Digestion
WG45194	R51462	L9808481-06		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Digestion
WG45194	R51462	L9808481-06		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Digestion
WG45194	R51462	L9808481-06		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Digestion
WG45194	R51462	L9808481-06		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Digestion
WG45194	R51462	L9808481-07		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Digestion
WG45194	R51462	L9808481-07		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Digestion
WG45194	R51462	L9808481-07		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Digestion
WG45194	R51462	L9808481-07		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Digestion
WG45194	R51462	L9808481-07		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Digestion
WG45194	R51462	L9808481-07		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Digestion
WG45194	R51462	L9808481-08		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Digestion
WG45194	R51462	L9808481-08		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Digestion
WG45194	R51462	L9808481-08		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Digestion
WG45194	R51462	L9808481-08		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Digestion
WG45194	R51462	L9808481-08		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Digestion
WG45194	R51462	L9808481-08		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Digestion
WG45194	R51462	L9808481-09		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Digestion
WG45194	R51462	L9808481-09		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Digestion
WG45194	R51462	L9808481-09		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Digestion
WG45194	R51462	L9808481-09		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Digestion
WG45194	R51462	L9808481-09		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Digestion
WG45194	R51462	L9808481-09		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Digestion
WG45234	R51375	L9808481-01		Soil	Percent Solids	D2216-90	DIH	26-AUG-1998	27-AUG-1998	13:45	Conventionals
WG45234	R51375	L9808481-02		Soil	Percent Solids	D2216-90	DIH	26-AUG-1998	27-AUG-1998	13:45	Conventionals
WG45234	R51375	L9808481-03		Soil	Percent Solids	D2216-90	DIH	26-AUG-1998	27-AUG-1998	13:45	Conventionals
WG45234	R51375	L9808481-04		Soil	Percent Solids	D2216-90	DIH	26-AUG-1998	27-AUG-1998	13:45	Conventionals
WG45234	R51375	L9808481-05		Soil	Percent Solids	D2216-90	DIH	26-AUG-1998	27-AUG-1998	13:45	Conventionals
WG45234	R51375	L9808481-06		Soil	Percent Solids	D2216-90	DIH	26-AUG-1998	27-AUG-1998	13:45	Conventionals
WG45234	R51375	L9808481-07		Soil	Percent Solids	D2216-90	DIH	26-AUG-1998	27-AUG-1998	13:45	Conventionals
WG45234	R51375	L9808481-08		Soil	Percent Solids	D2216-90	DIH	26-AUG-1998	27-AUG-1998	13:45	Conventionals
WG45234	R51375	L9808481-09		Soil	Percent Solids	D2216-90	DIH	26-AUG-1998	27-AUG-1998	13:45	Conventionals
WG45239	R51462	L9808481-01		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Metals - ICP
WG45239	R51462	L9808481-01		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Metals - ICP
WG45239	R51462	L9808481-01		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Metals - ICP
WG45239	R51462	L9808481-01		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Metals - ICP
WG45239	R51462	L9808481-01		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Metals - ICP

Order #: 98-08-481
August 28, 1998 04:35 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
G45239	R51462	L9808481-01		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:42	Metals - ICP
G45239	R51462	L9808481-02		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Metals - ICP
G45239	R51462	L9808481-02		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Metals - ICP
G45239	R51462	L9808481-02		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Metals - ICP
G45239	R51462	L9808481-02		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Metals - ICP
G45239	R51462	L9808481-02		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Metals - ICP
G45239	R51462	L9808481-02		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:46	Metals - ICP
G45239	R51462	L9808481-03		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Metals - ICP
G45239	R51462	L9808481-03		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Metals - ICP
G45239	R51462	L9808481-03		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Metals - ICP
G45239	R51462	L9808481-03		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Metals - ICP
G45239	R51462	L9808481-03		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Metals - ICP
G45239	R51462	L9808481-03		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	10:50	Metals - ICP
G45239	R51462	L9808481-04		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Metals - ICP
G45239	R51462	L9808481-04		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Metals - ICP
G45239	R51462	L9808481-04		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Metals - ICP
G45239	R51462	L9808481-04		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Metals - ICP
G45239	R51462	L9808481-04		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Metals - ICP
G45239	R51462	L9808481-04		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:31	Metals - ICP
G45239	R51462	L9808481-05		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Metals - ICP
G45239	R51462	L9808481-05		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Metals - ICP
G45239	R51462	L9808481-05		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Metals - ICP
G45239	R51462	L9808481-05		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Metals - ICP
G45239	R51462	L9808481-05		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Metals - ICP
G45239	R51462	L9808481-05		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:35	Metals - ICP
G45239	R51462	L9808481-06		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Metals - ICP
G45239	R51462	L9808481-06		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Metals - ICP
G45239	R51462	L9808481-06		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Metals - ICP
G45239	R51462	L9808481-06		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Metals - ICP
G45239	R51462	L9808481-06		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Metals - ICP
G45239	R51462	L9808481-06		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:39	Metals - ICP
G45239	R51462	L9808481-07		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Metals - ICP
G45239	R51462	L9808481-07		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Metals - ICP
G45239	R51462	L9808481-07		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Metals - ICP
G45239	R51462	L9808481-07		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Metals - ICP
G45239	R51462	L9808481-07		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Metals - ICP
G45239	R51462	L9808481-07		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:43	Metals - ICP
G45239	R51462	L9808481-08		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Metals - ICP
G45239	R51462	L9808481-08		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Metals - ICP
G45239	R51462	L9808481-08		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Metals - ICP
G45239	R51462	L9808481-08		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Metals - ICP
G45239	R51462	L9808481-08		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Metals - ICP
G45239	R51462	L9808481-08		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:47	Metals - ICP
G45239	R51462	L9808481-09		Soil	Arsenic, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Metals - ICP
G45239	R51462	L9808481-09		Soil	Barium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Metals - ICP

Order #: 98-08-481
August 28, 1998 04:35 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
G45239	R51462	L9808481-09		Soil	Cadmium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Metals - ICP
G45239	R51462	L9808481-09		Soil	Chromium, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Metals - ICP
G45239	R51462	L9808481-09		Soil	Lead, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Metals - ICP
G45239	R51462	L9808481-09		Soil	Silver, Total	6010B\3050A	JYH	26-AUG-1998	28-AUG-1998	11:51	Metals - ICP
G45247	R51456	L9808481-01		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Metals - AA
G45247	R51456	L9808481-02		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Metals - AA
G45247	R51456	L9808481-03		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Metals - AA
G45247	R51456	L9808481-04		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Metals - AA
G45247	R51456	L9808481-05		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Metals - AA
G45247	R51456	L9808481-06		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Metals - AA
G45247	R51456	L9808481-07		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Metals - AA
G45247	R51456	L9808481-08		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Metals - AA
G45247	R51456	L9808481-09		Soil	Mercury, Total	7471A\7471A	ALC	26-AUG-1998	28-AUG-1998	11:28	Metals - AA
G45251	R51454	L9808481-01		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Metals - AA
G45251	R51454	L9808481-02		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Metals - AA
G45251	R51454	L9808481-03		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Metals - AA
G45251	R51454	L9808481-04		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Metals - AA
G45251	R51454	L9808481-05		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Metals - AA
G45251	R51454	L9808481-06		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Metals - AA
G45251	R51454	L9808481-07		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Metals - AA
G45251	R51454	L9808481-08		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Metals - AA
G45251	R51454	L9808481-09		Soil	Selenium, Total	7740	RSS	26-AUG-1998	28-AUG-1998	10:27	Metals - AA

KEMRON ANALYST LIST

Ohio Valley Laboratory

07/06/98

ALC -- Ann L. Clark
BAD -- Becky A. Diehl
BWH -- Ben W. Haynes
CEB -- Chad E. Barnes
CDB -- Christy D. Burton
CLH -- Chris L. Hurst
CMS -- Crystal M. Stevens
CRC -- Carla R. Cochran
DIH -- Deanna I. Hesson
DKM -- Dewey K. Miller
DLN -- Deanna L. Norton
DLP -- Dorothy L. Payne
ECL -- Eric C. Lawson
FEH -- Fay E. Harmon
HV -- Hema Vilasagar
JLH -- Janice L. Holland
JMM -- Jim M. Monk
JWR -- John W. Richards
JYH -- Ji Y. Hu
KHA -- Kim H. Archer
KMM -- Kevin M. McDonald
KMS -- Kevin M. Stutler
KRA -- Kathy R. Albertson

MDA -- Mike D. Albertson
MDC -- Michael D. Cochran
MES -- Mary E. Schilling
MLS -- Michael L. Schimmel
MMB -- Maren M. Beery
RDC -- Rebecca D. Cutlip
RDS -- Rebecca D. Sutton
REF -- Ron E. Fertile
REK -- Robert E. Kyer
RSS -- Regina S. Simmons
RWC -- Rodney W. Campbell
SJK -- Sindy J. Kinney
SJM -- Shawn J. Marshall
SKH -- Shellie K. Hamrick
SLJ -- Susan L. Johnson
SLP -- Sheri L. Pfalzgraf
SLT -- Stephanie L. Tepe
SMW -- Shauna M. Welch
SPL -- Steve P. Learn
TJW -- Thomas J. Ware
TRS -- Todd R. Stack
VC -- Vicki Collier
VMN -- Vincent M. Nedeff

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS (qual)
March 9, 1998

Qualifier	Description
(A)	See the report narrative
(B)	See the report narrative
(C)	See the report narrative
+	Correlation coefficient for the MSA is less than 0.995
<	Less than
>	Greater than
B	Present in the method blank
C	Confirmed by GC/MS
*	Surrogate or spike compound out of range
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
F	Present below nominal reporting limit (AFCEE only)
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met

Qualifier	Description
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration > 25% difference between the two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out of control limits
X	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

INORGANIC QA/QC

Kemron
ENVIRONMENTAL SERVICES

QUALITY CON[illegible] SUMMARY

WOR[illegible]: WG45239
METH[illegible]: 6010A
MATRIX: soil
UNITS: mg/kg
INSTRUMENT: Thermo Jarrell Ash

RUN DATE: 8/28/98
PREP DATE: 8/27/98
ANALYST: JYH

			CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Silver	2.000	ND	10.000	9.440	ND	ND	ND	10.000	9.440	9.630	94.4	80.0	120.0	94.4	96.3	80.0	120.0	NA	0.96	20
Arsenic	5.000	ND	50.000	48.300	10.300	17.100	8.700	50.000	58.700	56.000	96.6	80.0	120.0	100.0	92.6	80.0	120.0	4.79	6.61	20
Barium	0.500	ND	500.000	490.000	174.000	166.000	24.700	500.000	507.000	508.000	98.0	80.0	120.0	96.6	96.7	80.0	120.0	4.71	0.20	20
Beryllium	0.500	ND	50.010	49.600	4.250	4.100	ND	50.000	48.100	49.000	99.2	80.0	120.0	96.2	98.0	80.0	120.0	3.59	1.85	20
Cadmium	0.500	ND	50.000	46.900	0.623	ND	ND	50.000	46.500	47.100	93.8	80.0	120.0	93.0	94.2	80.0	120.0	NA	1.28	20
Chromium	1.000	ND	50.000	48.500	43.000	41.900	7.480	50.000	52.800	52.600	97.0	80.0	120.0	90.3	90.3	80.0	120.0	2.59	0.00	20
Potassium	50.000	ND	2500.000	2320.000	3120.000	2960.000	691.000	2500.000	3750.000	3490.000	92.8	80.0	120.0	122.4	112.0	80.0	120.0	5.26	7.18	20
Sodium	25.000	ND	2500.000	2370.000	1900.000	1850.000	150.000	2500.000	2630.000	2560.000	94.8	80.0	120.0	99.2	96.4	80.0	120.0	2.67	2.70	20
Nickel	2.000	ND	50.000	47.900	42.900	41.600	14.300	50.000	57.300	57.900	95.8	80.0	120.0	86.0	87.2	80.0	120.0	3.08	1.04	20
Lead	5.000	ND	50.320	47.500	36.600	36.800	5.560	50.000	51.000	49.700	94.4	80.0	120.0	90.9	88.3	80.0	120.0	0.54	2.58	20
Selenium	5.000	ND	50.000	47.100	ND	ND	ND	50.000	50.300	47.400	94.2	80.0	120.0	100.6	94.8	80.0	120.0	NA	5.94	20
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON EN. NTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: wg45251
METHOD: 7060
MATRIX: Soil
UNITS: mg/kg
INSTRUMENT: Perkin Elmer

RUN DATE: 8/28/98
PREP DATE: 8/27/98
Analyst: RSS

ANALYTE	RDL	Blank	CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Selenium	0.2000	ND	1.2500	1.2500	0.719	0.656	ND	1.2500	0.4010	0.5950	100.0	60.0	120.0	32.1	47.6	75.0	125.0	9.16	38.96	20

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

COOLER RECEIPT FORM

Contractor Cooler _____
MRD Cooler # _____
Number of Coolers 2

PROJECT: 77682/Village Farm Landfill LIMS# L9808481 L9808482

USE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONERNING CHECK-IN PROBLEMS

A. PRELIMINARY EXAMINATION PHASE: Date cooler opened: 8/27/98 C-of-C Number: 97054/68052
by (print) Brenda Gregory (sign) Brenda Gregory

1. Did cooler come with a shipping slip (air bill, etc.)? ..... YES NO
   If YES, enter carrier name & air bill number here: Fed Ex - 804084370370 & 396195864
2. Were custody seals on outside of cooler? ..... 1 Cooler Duct Tape (+) YES NO
   How many & where? 1-front, seal date: 8/25/98 seal name: Kemron
3. Were custody seals unbroken and intact at the data and time of arrival? ..... YES NO
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES NO
5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES NO
6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
7. Did you sign custody papers in the appropriate place? ..... YES
8. Was project identifiable from custody papers? If yes, enter project name at the top of this form ..... YES
9. If required, was enough ice used? ..... Type of ice: Wet Temp 0.0/2.0 ..... YES NO
10. Have designated person initial here to acknowledge receipt of cooler BG (date) 8/27/98

B. LOG-IN PHASE: Date samples were logged-in: 8/27/98
by (print) Brenda Gregory (sign) Brenda Gregory

11. Describe type of packing in cooler: wet ice, baggies
12. Were all bottles sealed in separate plastic bags? ..... YES NO
13. Did all bottles arrive unbroken & were labels in good condition? ..... YES NO
14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO
15. Did all bottle labels agree with custody papers? ..... YES NO
16. Were correct containers used for the tests indicated? ..... YES NO
17. Were correct preservatives added to samples? ..... YES NO
18. Was a sufficient amount of sample sent for tests indicated? ..... YES NO
19. Were bubbles absent in volatile samples? If NO, list by Sample # _____ YES NO
20. Was the project manager called and status discussed? If YES, give details on the back of this form ..... YES NO
21. Who was called? _____ By whom? _____ (date) _____

kemron
VIRONMENTAL SERVICES

S.554

HAIN-OF-CUSTODY RECORD

oject Contact: Pete Coutts (716) 271-6430 Ext 205

rn Around Requirements: TCLP - 72 hrs Totals - 24 hrs.

oject No.:	Project Name:
76182	Village Farm landfill

mpler (print):	Signature:
Thomas Hayden	Thomas W. Hayden

Sample I.D. No.	Comp*	Grab	Date	Time	Protocol CWA	Protocol SW846	NUMBER OF SAMPLES	Hold	ADDITIONAL REQUIREMENTS
FC-5	✓		8-25-98	1100 hrs			1		~~Total Metals~~ TWH
FC-6	✓		8-25-98	1100 hrs			1		Total Metals
FC-7	✓		8-25-98	1105 hrs			1		Total Metals
FC-8	✓		8-25-98	1105 hrs			1		Total Metals
FC-9	✓		8-25-98	1110 hrs			1		Total Metals
FC-5 TCLP	✓		8-25-98	1100 hrs			1		TCLP Metals
FC-6 TCLP	✓		8-25-98	1100 hrs			1		TCLP Metals
FC-7 TCLP	✓		8-25-98	1105 hrs.			1		TCLP Metals
FC-8 TCLP	✓		8-25-98	1105 hrs			1		TCLP Metals
FC-9 TCLP	✓		8-25-98	1110 hrs.			1		TCLP Metals
F-EW1		✓	8-25-98	1200 hrs			1		Total Metals
F-SW1		✓	8-25-98	1200 hrs			1		Total Metals
F-SW2		✓	8-25-98	1200 hrs			1		Total Metals
F-B2		✓	8-25-98	1500 hrs			1		Total Metals

Cancel per client 8/27/98

inquished by: gnature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Thomas W. Hayden	8/25/98	1700					

inquished by: gnature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:

genize all composite samples prior to analysis

White – Lab Yellow – Office Pink – Field

Work Order L9808481 Client IT Corp #of Samples 9 Due Date 8/28 Page 1

Sample #	Analyses	Reason	Removed By ADT	Removed From	MovedTo	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
01-09	MET	DIG	CEB 08/27/98 @1315	login	MET	BLG	CEB 08/27/98 @1335	login	BLG	Storage
1-9	PCTS	Cont	[illegible] 8/27/1335	login	wet	BLG	[illegible] 8/27/1400	archive	BLG	archive
07	MET	DIG	8.27.98 @ 1830	ARCHIVE	MET	BLG	[illegible] 082898 @1600	Archive	BLG	Archive

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792

Attention: Al Meyers

PO Number:
Account Number: ITCORPPA-520

Login #: L9808482
Report Date: 08/31/98
Work ID: 776182/VILLAGE FARM LANDFILL
Date Received: 08/27/98

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L9808482-01	VFC-10B	L9808482-02	VFC-11B
L9808482-03	VFC-12B	L9808482-04	VFC-13B
L9808482-05	VFC-14B		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Maren M Beery

Certified By
Maren M. Beery

KEMRON
ENVIRONMENTAL SERVICES

CLP METALS

Lab Sample ID: L9808482-01
lient Sample ID: VFC-10B
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1500
Units: mg/L

COC Info: N/A
TCLP Ext. Date: 08/27/98

nalyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
ilver.....		ND	0.10	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
rsenic.....		ND	1.0	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
arium.....	0.59		0.10	100	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
admium.....		ND	0.10	1	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
hromium.....		ND	0.20	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
ercury.....		ND	0.005	0.2	7470\7470\1311	08/28/98	08/30/98	15:35	N/A
ead.....		ND	1.0	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
elenium.....		ND	1.0	1	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A

CLP METALS

Lab Sample ID: L9808482-02
lient Sample ID: VFC-11B
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1505
Units: mg/L

COC Info: N/A
TCLP Ext. Date: 08/27/98

nalyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
ilver.....		ND	0.10	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
rsenic.....		ND	1.0	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
arium.....	0.62		0.10	100	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
admium.....		ND	0.10	1	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
hromium.....		ND	0.20	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
ercury.....		ND	0.005	0.2	7470\7470\1311	08/28/98	08/30/98	15:35	N/A
ead.....		ND	1.0	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
elenium.....		ND	1.0	1	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A

= Reporting Limit

CLP METALS

Lab Sample ID: L9808482-03
lient Sample ID: VFC-12B
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1510
Units: mg/L

COC Info: N/A
TCLP Ext. Date: 08/27/98

nalyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
ilver.....		ND	0.10	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
rsenic.....		ND	1.0	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
arium.....	0.62		0.10	100	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
admium.....		ND	0.10	1	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
hromium.....		ND	0.20	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
ercury.....		ND	0.005	0.2	7470\7470\1311	08/28/98	08/30/98	15:35	N/A
ead.....		ND	1.0	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
elenium.....		ND	1.0	1	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A

CLP METALS

Lab Sample ID: L9808482-04
lient Sample ID: VFC-13B
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1515
Units: mg/L

COC Info: N/A
TCLP Ext. Date: 08/27/98

nalyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
ilver.....		ND	0.10	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
rsenic.....		ND	1.0	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
arium.....	0.60		0.10	100	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
admium.....		ND	0.10	1	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
hromium.....		ND	0.20	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
ercury.....		ND	0.005	0.2	7470\7470\1311	08/28/98	08/30/98	15:35	N/A
ead.....		ND	1.0	5	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A
elenium.....		ND	1.0	1	6010B\3015\1311	08/28/98	08/30/98	13:32	N/A

= Reporting Limit

TCLP METALS

Lab Sample ID: L9808482-05
Client Sample ID: VFC-14B
Site/Work ID: 776182/VILLAGE FARM LANDFILL

Matrix: Soil
Collected: 08/26/98 1520
Units: mg/L

COC Info: N/A
TCLP Ext. Date: 08/27/98

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Silver.....		ND	0.10	5	6010B\3015\1311	08/28/98	08/30/98		N/A
Arsenic.....		ND	1.0	5	6010B\3015\1311	08/28/98	08/30/98		N/A
Barium.....	0.60		0.10	100	6010B\3015\1311	08/28/98	08/30/98		N/A
Cadmium.....		ND	0.10	1	6010B\3015\1311	08/28/98	08/30/98		N/A
Chromium.....		ND	0.20	5	6010B\3015\1311	08/28/98	08/30/98		N/A
Mercury.....		ND	0.005	0.2	7470\7470\1311	08/28/98	08/30/98	15:35	N/A
Lead.....		ND	1.0	5	6010B\3015\1311	08/28/98	08/30/98		N/A
Selenium.....		ND	1.0	1	6010B\3015\1311	08/28/98	08/30/98		N/A

= Reporting Limit

Order #: 98-08-482
August 31, 1998 10:14 am

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG45198	R51499	L9808482-01		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	TCLP Prep.
WG45198	R51499	L9808482-02		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	TCLP Prep.
WG45198	R51499	L9808482-03		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	TCLP Prep.
WG45198	R51499	L9808482-04		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	TCLP Prep.
WG45198	R51499	L9808482-05		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	TCLP Prep.
WG45270	R51492	L9808482-01		Soil	Arsenic, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-01		Soil	Barium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-01		Soil	Cadmium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-01		Soil	Chromium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-01		Soil	Lead, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-01		Soil	Selenium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-01		Soil	Silver, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-02		Soil	Arsenic, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-02		Soil	Barium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-02		Soil	Cadmium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-02		Soil	Chromium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-02		Soil	Lead, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-02		Soil	Selenium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-02		Soil	Silver, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-03		Soil	Arsenic, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-03		Soil	Barium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-03		Soil	Cadmium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-03		Soil	Chromium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-03		Soil	Lead, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-03		Soil	Selenium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-03		Soil	Silver, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-04		Soil	Arsenic, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-04		Soil	Barium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-04		Soil	Cadmium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-04		Soil	Chromium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-04		Soil	Lead, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-04		Soil	Selenium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-04		Soil	Silver, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-05		Soil	Arsenic, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Digestion
WG45270	R51492	L9808482-05		Soil	Barium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Digestion
WG45270	R51492	L9808482-05		Soil	Cadmium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Digestion
WG45270	R51492	L9808482-05		Soil	Chromium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Digestion
WG45270	R51492	L9808482-05		Soil	Lead, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Digestion
WG45270	R51492	L9808482-05		Soil	Selenium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Digestion
WG45270	R51492	L9808482-05		Soil	Silver, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Digestion
WG45271	R51499	L9808482-01		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	Digestion
WG45271	R51499	L9808482-02		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	Digestion
WG45271	R51499	L9808482-03		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	Digestion

Order #: 98-08-482
August 31, 1998 10:14 am

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG45271	R51499	L9808482-04		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	Digestion
WG45271	R51499	L9808482-05		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	Digestion
WG45290	R51499	L9808482-01		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	Metals - AA
WG45290	R51499	L9808482-02		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	Metals - AA
WG45290	R51499	L9808482-03		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	Metals - AA
WG45290	R51499	L9808482-04		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	Metals - AA
WG45290	R51499	L9808482-05		Soil	Mercury, TCLP	7470\7470\1311	ALC	26-AUG-1998	30-AUG-1998	15:35	Metals - AA
WG45292	R51492	L9808482-01		Soil	Arsenic, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-01		Soil	Barium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-01		Soil	Cadmium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-01		Soil	Chromium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-01		Soil	Lead, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-01		Soil	Selenium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-01		Soil	Silver, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-02		Soil	Arsenic, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-02		Soil	Barium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-02		Soil	Cadmium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-02		Soil	Chromium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-02		Soil	Lead, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-02		Soil	Selenium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-02		Soil	Silver, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-03		Soil	Arsenic, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-03		Soil	Barium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-03		Soil	Cadmium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-03		Soil	Chromium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-03		Soil	Lead, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-03		Soil	Selenium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-03		Soil	Silver, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-04		Soil	Arsenic, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-04		Soil	Barium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-04		Soil	Cadmium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-04		Soil	Chromium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-04		Soil	Lead, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-04		Soil	Selenium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-04		Soil	Silver, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-05		Soil	Arsenic, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998	13:32	Metals - ICP
WG45292	R51492	L9808482-05		Soil	Barium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Metals - ICP
WG45292	R51492	L9808482-05		Soil	Cadmium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Metals - ICP
WG45292	R51492	L9808482-05		Soil	Chromium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Metals - ICP
WG45292	R51492	L9808482-05		Soil	Lead, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Metals - ICP
WG45292	R51492	L9808482-05		Soil	Selenium, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Metals - ICP
WG45292	R51492	L9808482-05		Soil	Silver, TCLP	6010B\3015\1311	MMB	26-AUG-1998	30-AUG-1998		Metals - ICP

KEMRON ANALYST LIST

Ohio Valley Laboratory

07/06/98

ALC -- Ann L. Clark
BAD -- Becky A. Diehl
BWH -- Ben W. Haynes
CEB -- Chad E. Barnes
CDB -- Christy D. Burton
CLH -- Chris L. Hurst
CMS -- Crystal M. Stevens
CRC -- Carla R. Cochran
DIH -- Deanna I. Hesson
DKM -- Dewey K. Miller
DLN -- Deanna L. Norton
DLP -- Dorothy L. Payne
ECL -- Eric C. Lawson
FEH -- Fay E. Harmon
HV -- Hema Vilasagar
JLH -- Janice L. Holland
JMM -- Jim M. Monk
JWR -- John W. Richards
JYH -- Ji Y. Hu
KHA -- Kim H. Archer
KMM -- Kevin M. McDonald
KMS -- Kevin M. Stutler
KRA -- Kathy R. Albertson

MDA -- Mike D. Albertson
MDC -- Michael D. Cochran
MES -- Mary E. Schilling
MLS -- Michael L. Schimmel
MMB -- Maren M. Beery
RDC -- Rebecca D. Cutlip
RDS -- Rebecca D. Sutton
REF -- Ron E. Fertile
REK -- Robert E. Kyer
RSS -- Regina S. Simmons
RWC -- Rodney W. Campbell
SJK -- Sindy J. Kinney
SJM -- Shawn J. Marshall
SKH -- Shellie K. Hamrick
SLJ -- Susan L. Johnson
SLP -- Sheri L. Pfalzgraf
SLT -- Stephanie L. Tepe
SMW -- Shauna M. Welch
SPL -- Steve P. Learn
TJW -- Thomas J. Ware
TRS -- Todd R. Stack
VC -- Vicki Collier
VMN -- Vincent M. Nedeff

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS (qual)
March 9, 1998

Qualifier	Description
(A)	See the report narrative
(B)	See the report narrative
(C)	See the report narrative
+	Correlation coefficient for the MSA is less than 0.995
<	Less than
>	Greater than
B	Present in the method blank
C	Confirmed by GC/MS
*	Surrogate or spike compound out of range
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
F	Present below nominal reporting limit (AFCEE only)
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met

Qualifier	Description
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration > 25% difference between the two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out of control limits
X	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

INORGANIC QA/QC

Kemron
ENVIRONMENTAL SERVICES

QUALITY CONTROL SUMMARY

GROUP: WG45290
METHOD: 7470
MATRIX: Water
UNITS: mg/l
INSTRUMENT: Leeman PS 200

RUN DATE: 8/31/98
PREP DATE: 8/26/98
ANALYST: KRA

ANALYTE	RDL	Blank	CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.0002	ND	0.0010	0.00098	ND	ND	ND	0.0100	0.00980	0.00977	98.1	80.0	120.0	98.0	97.7	75.0	125.0	NA	1.8	20

NOTES & DEFINITIONS :
RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRC [illegible]RONMENTAL SERVICES
OHIO VAL[illegible]LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG45292
METHOD: 6010A
MATRIX: TCLP
UNITS: mg/l
INSTRUMENT: Leeman

RUN DATE: 8/30/98
PREP DATE: 8/28/98
ANALYST: MMB

ANALYTE	RDL	Blank	CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Antimony	2.000	ND	1.000	0.931	ND	ND	ND	10.000	9.440	9.700	93.1	80.0	120.0	94.4	97.0	80.0	120.0	NA	2.72	20
Arsenic	1.000	ND	1.000	0.926	ND	ND	ND	10.000	9.410	9.410	92.6	80.0	120.0	94.1	94.1	80.0	120.0	NA	0.00	20
Barium	0.100	ND	10.000	9.440	0.481	0.474	0.585	100.000	93.200	95.000	94.4	80.0	120.0	92.6	94.4	80.0	120.0	1.47	1.91	20
Cadmium	0.100	ND	1.000	0.940	ND	ND	ND	10.000	9.540	9.440	94.0	80.0	120.0	95.4	94.4	80.0	120.0	NA	1.05	20
Chromium	0.200	ND	1.000	0.930	ND	ND	ND	10.000	9.300	9.310	93.0	80.0	120.0	93.0	93.1	80.0	120.0	NA	0.11	20
Lead	1.000	ND	1.000	0.951	ND	ND	ND	10.000	10.100	10.000	95.1	80.0	120.0	101.0	100.0	80.0	120.0	NA	1.00	20
Nickel	0.400	ND	1.000	0.904	ND	ND	ND	10.000	9.230	9.080	90.4	80.0	120.0	92.3	90.8	80.0	120.0	NA	1.64	20
Selenium	1.000	ND	1.000	0.935	ND	ND	ND	10.000	9.060	9.490	93.5	80.0	120.0	90.6	94.9	80.0	120.0	NA	4.64	20
Silver	0.100	ND	0.200	0.187	ND	ND	ND	2.000	1.830	1.840	93.5	80.0	120.0	91.5	92.0	80.0	120.0	NA	0.54	20
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

Work Order C9808482 Client ITCorp #of Samples 5 Due Date 8/31 Page 1

Sample #	Analyses	Reason	Removed By ADT	Removed From	MovedTo	Reliq. By	Ret'd by ADT	Ret'd To	Rec'd By	Reason
01-05	TCLP	EXT	RWC 08-27-98 @1320	Login	TCLP	BIG	RWC 08-27-98 @1600	Archive	BIG	Archive

COOLER RECEIPT FORM

Contractor Cooler _____
MRD Cooler # _____
Number of Coolers 2

PROJECT: 77682/Village Farm Landfill LIMS# L98084481
L98084482

USE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONERNING CHECK-IN PROBLEMS

A. **PRELIMINARY EXAMINATION PHASE:** Date cooler opened: 8/27/98 C-of-C Number: 97054/18052
by (print) Brenda Gregory (sign) Brenda Gregory

1. Did cooler come with a shipping slip (air bill, etc.)? ..... YES NO
   If YES, enter carrier name & air bill number here: Fed Ex - 804084370370 & 396195864 1
2. Were custody seals on outside of cooler? ..... 1 Cooler Duct Tape (+) YES NO
   How many & where? 1-front, seal date: 8/25/98 seal name: Kemron
3. Were custody seals unbroken and intact at the data and time of arrival? ..... YES NO
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES NO
5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES NO
6. Were custody papers filled out properly (ink, signed. etc.)? ..... YES NO
7. Did you sign custody papers in the appropriate place? ..... YES NO
8. Was project identifiable from custody papers? If yes, enter project name at the top of this form ..... YES NO
9. If required, was enough ice used? ..... Type of ice: Wet Temp 0.0/2.0 ..... YES NO
10. Have designated person initial here to acknowledge receipt of cooler: BG (date) 8/27/98

B. **LOG-IN PHASE:** Date samples were logged-in: 8/27/98
by (print) Brenda Gregory (sign) Brenda Gregory

11. Describe type of packing in cooler: wet ice, baggies
12. Were all bottles sealed in separate plastic bags? ..... YES NO
13. Did all bottles arrive unbroken & were labels in good condition? ..... YES NO
14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO
15. Did all bottle labels agree with custody papers? ..... YES NO
16. Were correct containers used for the tests indicated? ..... YES NO
17. Were correct preservatives added to samples? ..... YES NO
18. Was a sufficient amount of sample sent for tests indicated? ..... YES NO
19. Were bubbles absent in volatile samples? If NO, list by Sample # _____ YES NO
20. Was the project manager called and status discussed? If YES, give details on the back of this form ..... YES NO
21. Who was called? _____ By whom? _____ (date) _____

Kemron ENVIRONMENTAL SERVICES

CHAIN-OF-CUSTODY RECORD

№ 68052

Page 1 of 1

Project Contact: Pete Coats (716) 271-6430 Ext 205

Turn Around Requirements: TCLP 72 Hrs Total - 24 Hour

Project No.: 77618L

Project Name: Village farm landfill

Sampler (print): Thom W. Hoyer

Signature: [signature]

USSEE 9880

Sample I.D. No.	Comp.*	Grab	Date	Time	Protocol CWA	Protocol SW846	NUMBER OF SAMPLES	Hold	ADDITIONAL REQUIREMENTS
VFE10			8-26-98	1600			1		Total Metals
VF S20			8-26-98	1605			1		Total Metals
VF S10			8-26-98	1600			1		Total Metals
VF B10			8-26-98	1545			1		Total Metals
VFC-10A	✓		8-26-98	1500			1		Total Metals
VFC-10B	✓		8-26-98	1500			1		TCLP Metals
VFC-11A	✓		8-26-98	1505			1		Total Metals
VFC-11B	✓		8-26-98	1505			1		TCLP Metals
VFC-12A	✓		8-26-98	1510			1		Total Metals
VFC-12B	✓		8-26-98	1510			1		TCLP Metals
VFC-13A	✓		8-26-98	1515			1		TOTAL Metals
VFC-13B	✓		8-26-98	1515			1		TCLP Metals
VFC-14A	✓		8-26-98	1520			1		TOTAL Metals
VFC-14B	✓		8-26-98	1520			1		TCLP Metals

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Thom W. Hoyer	8/26/98	1750					

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:
			[signature]	8/27/98	0930	9 ?? Sealed, 5X5 intact / Cooler Temp 2.0 [initials]

*Homogenize all composite samples prior to analysis

White – Lab Yellow – Office Pink – Field

INTERNATIONAL TECHNOLOGY CORPORATION

Memorandum

Date: December 15, 1998

To: Pete Coutts

From: Jim Imbornoni

Subject: Cylinder Disposal

On Friday, October 30, 1998, I received a telephone call from Steve Kritak, an IT project coordinator. He was working on a project in West Point, NY and requested information concerning how to dispose of two large, compressed gas cylinders. The cylinders were empty and their valves had been removed. I was told that project personnel were disposing of cylinders similar to these by taking them to a local waste transfer station which would then send the cylinders to a metal recycler. However, these two cylinders were suspected of being lined with asbestos and could not be taken to a recycler for disposal. Mr. Kritak asked me if I could obtain competitive pricing for the transportation and disposal (T & D) of these two cylinders. I then attempted to obtain the necessary T & D pricing. Subsequently to this, I spoke to Mr. Kritak and advised him that, since the cylinders were empty and the asbestos was non-friable, they were therefore non-hazardous and could be sent for disposal to a local landfill. Mr. Kritak then told me that he would advise the site supervisor to dispose of the cylinders by taking them to the local waste transfer station for ultimate disposal in a local landfill. Since the cylinder were going to be disposed of in this manner, I did not obtain final pricing T & D pricing for the cylinders.

cc: Project File
Steve Kritak

New York State Department of Environmental Conservation
Division of Solid and Hazardous Materials, Region 3
21 South Putt Corners Road, New Paltz, NY 12561-1696
(914) 256-3131 FAX (914) 255-3414

John Cahill
Commissioner

November 14, 1997

Mr. Eugene E. Rood
Chief, Environmental Management Division
Department of the Army
United States Military Academy
West Point, New York 10996-1592

Re: Cragston Landfill Closure
United States Military Academy correspondence dated May 31, 1997

Dear Mr. Rood:

This letter is provided in response to the United States Military Academy (USMA) correspondence dated May 31, 1997 requesting approval to utilize material from the Village Farm Landfill as an alternative grading material (AGM) for the Closure of the Cragston Landfill. At the verbal request of the Department, West Point has supplied supporting cross sections and fill calculations indicating fill volume needed to achieve minimal grading requirements. The Department accepts use of this material as an AGM with the following understanding.

1. A "Project Scope of Work" and "Health and Safety Plan" as described by USMA May 31, 1997 correspondence will be submitted to the Department prior to initiating material placement at the Cragston Landfill.

2. The volume of material accepted for use as AGM shall not exceed 2,000 cubic yards.

3. The material is a non-hazardous waste as represented by USMA May 31, 1997 correspondence.

4. A 6 inch layer of cover material or equivalent must be applied to in-place or stockpiled material at the close of each operating day. An intermediate cover of at least 12 inches must be applied within 30 calender days of completing material placement.

5. The USMA should be aware that the Environmental Protection Agency has not made a determination about beneficial re-use of waste material, and their decision, if different, could alter and impact the placement of waste material and may subject the landfill to be closed under more stringent requirement of the 1995 regulations.

bud_1.let

If you have any questions or comments, feel free to contact me.

Sincerely,

Thomas M. Miller, P. E.
Environmental Engineer