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Rocky Mountain Remediation Services, L.L.C.

779 Closure Project

BUILDING 779 CLUSTER CLOSURE PROJECT

**Non-Radiological
Closeout Report**

for

BUILDINGS 727, 782, 783

Revision 0
February 1, 2000

**Rocky Mountain
Remediation Services, L.L.C.**

REVIEWED FOR CLASSIFICATION
By [Signature]
Date 2/3/00



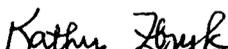
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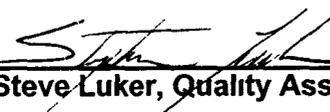
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NON-RADIOLOGICAL CLOSEOUT REPORT
for BUILDINGS 727, 782, 783
Revision 0
February 2000

This Non-Radiological Closeout Report has been reviewed and approved
by



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1.0 INTRODUCTION

1.1 Purpose

The purpose of this Report is to provide the information required by the 779 Cluster Closure Project Non-Radiological Closeout Plan for Buildings 727, 782 and 783. Additionally, this document provides characterization information that supports the RFETS' decision to demolish Buildings 727, 782 and 783.

1.2 Scope

The scope of this document is to provide information appropriate to Buildings 727, 782 and 783. The scope includes a summary of the applicable information and survey data that has been conducted since the Reconnaissance Level Characterization Report was issued. This information demonstrates that all contaminants of concern (COCs) within Buildings 727, 782 and 783 have been identified, removed, or remediated to a level below regulated levels.

Radiological closeout activities are not addressed in this plan. Refer to RF/RMRS-97-123 UN "Closeout Radiological Survey Plan for Building 779 Cluster", Rev 2, June 1999 for information concerning radiological surveys.

2.0 Removal of Contaminants of Concern (COCs)

The following sections discuss the current status of COCs for Buildings 727, 782 and 783. Each section also discusses what actions were taken to remove/abate the COCs.

2.1 Asbestos

The following paragraphs identify the amount of asbestos initially identified in Buildings 727, 782 and 783, and the actions taken to abate the identified asbestos. Each area designated in **Table 2.1, Asbestos Data, Buildings 727, 782, and 783**, was visually inspected and aggressively cleared as an abatement area according to requirements in CCR #8, Part B, Asbestos. An independent laboratory performed analysis of air samples by Phase Contrast Microscopy (PCM). In the event that PCM analysis exceeded 0.1 f/cc (fibers per cubic centimeter) on any sample, additional analysis would be performed by Transmission Electron Microscope (TEM) on all samples in the batch. There were no exceedences of 0.1 f/cc for PCM data obtained in Buildings 727, 782, and 783; therefore, no TEM analysis was required to confirm asbestos content.

Building 727

Pipe insulation and exhaust flue insulation were identified as suspect asbestos containing materials in Building 727 and were subsequently sampled. No detectable levels of asbestos were identified in the suspect insulation as the result of the sampling and analysis, therefore no abatement was performed.

Building 782

Building 782 had approximately 551 linear feet of pipe insulation in the main building and tunnel to Building 779. Abatement was accomplished in a negative pressure secondary containment connected to a HEPA-filtered ventilation system. The insulation was abated using glove bags and/or wrap/cut operations. The work was started on August 23, 1999 and completed on August 30, 1999. A visual inspection was performed and 5 PCM clearance air samples were acquired on August 30, 1999. Based on the visual and air sample results, the building was released for normal occupancy. The air clearance samples for all rooms where asbestos was abated are summarized below (Table 2.1) and the results are documented in Appendix B.

Building 783

No suspect asbestos containing materials were identified in Building 783 therefore no sampling or abatement was performed.

TABLE 2.1
Building 727, 782, and 783

BUILDING	ROOM NUMBER(S)	PCM SAMPLES	TEM SAMPLES	DATE CLEARED
727	N/A	N/A	N/A	N/A
782	Tunnel	5	0	8/30/99
783	N/A	N/A	N/A	N/A

2.2 Beryllium

The beryllium analytical method and control limit changed during FY99. At the beginning of FY99, beryllium was controlled to a housekeeping limit of 25 µg/ft². Beryllium smears were being analyzed at RFETS on the Beryllium Activation Swipe Tester (BEAST). The Site beryllium equipment-release limit was established at 0.2 µg/100 cm² on September 30, 1998. After this date, smear samples were sent to an off-site laboratory that could analyze to the lower level. The RFETS analytical method is incapable of analyzing to the lower 0.2 µg/100 cm² limit.

During completion of the stripout activities in the Buildings 727, 782 and 783, the 779 Closure Project Beryllium Assessment Plans were used to identify the personnel monitoring and beryllium exposure controls that were used. No Beryllium parts were stored or processed in Buildings 727, 782 and 783. Therefore, a significant number of beryllium swipes were not taken in these areas. The equipment and components identified as beryllium-contaminated (above the DOE free-release criteria of 0.2 µg/100 cm²) were removed from the facility and packaged as low-level waste. Building surfaces identified as being

beryllium-contaminated were decontaminated and re-sampled to verify that the surface was less than $0.2 \mu\text{g}/100 \text{ cm}^2$. Results of the Buildings 727, 782 and 783 beryllium analyses are included as Appendix C. Beryllium samples were managed using the chain-of-custody process.

2.3 Polychlorinated Biphenyl (PCBs)

No areas within Buildings 727, 782 and 783 required sampling for PCBs per the 779 Cluster Reconnaissance Level Characterization Report. Light ballasts in Buildings 727, 782 and 783 were inspected prior to removal and handled as either TSCA, non-hazardous or low level (TSCA or non-hazardous) waste based on results of this inspection.

2.4 Solid Material Containing Regulated Levels of RCRA Metals

An analysis of materials that fall within this category were evaluated as part of a Site-wide lead-based paint evaluation and included Building 779 Cluster. The analysis is discussed below. The result of this evaluation was used to make decisions about Buildings 727, 782 and 783.

Painted surfaces are the only material of potential concern in this category. Characterization of lead-based paints is required for worker protection under OSHA's Lead Abatement Program and for hazardous waste characterization in

accordance with 6 CCR 1007-3, Part 261.64. Consequently, both Inductively Coupled Plasma (ICP) and Toxicity Characteristic Leaching Procedure (TCLP) analyses were performed on paint within the 779 Cluster. Based on ICP data, painted surfaces within the 779 Cluster were treated as containing lead for the purposes of personnel protection. For the purpose of this report, only TCLP data is considered (Appendix D) because the hazardous waste determination for Buildings 727, 782 and 783 are derived from TCLP data even though an ICP summary is included.

RFETS personnel have evaluated different types of surfaces painted with lead-based paints and other paint containing heavy metals (cadmium, chromium). The RFETS evaluation concluded that, in general, the painted surfaces at RFETS are non-hazardous waste forms. This determination was based upon hundreds of samples taken throughout RFETS. As part of a continuing characterization, 52 samples (including duplicates, see Appendix D) from the 779 Cluster were analyzed for heavy metals using the TCLP. Each paint sample was of a unique paint color and/or combination of paint colors. These samples consisted of paint chips rather than the total media (cinder block, concrete, and paint) so that a conservative characterization would result. The sample result ranges for the RCRA metals of concern are as follows:

- ◆ Cd (06-0 1857 mg/l,)
- ◆ Cr (15 – 2 2 mg/l) (Excluding one sample from a painted metal door in Room 218)
- ◆ Pb (24 - 3 6 mg/l, Excluding Room 160 which is discussed below)

The characterization results demonstrate that the building debris is non-hazardous with respect to painted surfaces, based on TCLP analysis. Even though there are two TCLP analysis results that indicated some leachability, the non-hazardous determination is based on an interpretation from EPA guidance and the RFETS' Environmental Leadership Team.

The two results above regulatory threshold values for TCLP analysis were:

1. Paint on one metal door (chromium level of 19.7 mg/l, sample identification number 779-980416-MS-023)
2. Paint sampled from Room 160 in Building 779 (lead levels of 11.9 mg/l, sample identification number 779-0980416-MS-039). Painted surfaces in Room 160 have been scarified (all paint has been removed) and the entire waste matrix (paint and substrate) has been physically removed from the facility.

2.5 RCRA Regulated Waste Chemicals

Chemicals were stored in flame-proof cabinets in Buildings 782 and 783 throughout the use of the facilities. All of the chemicals, oils, and solvents have been removed from Building 782 and 783. Appendix E identifies the results of sampling that was performed on chemicals in Building 727, 782 and 783. Currently no hazardous waste chemicals are located in Buildings 727, 782 and 783.

2 6 RCRA Units and Above Ground Storage Tanks (ASTs)

There were no permitted RCRA units in Buildings 727, 782 and 783

One satellite accumulation area, Unit 782-947, existed in Building 782. The unit was activated on January 1, 1990 and inactivated on February 12, 1993.

An AST was located on the west-side of Building 727. Closure of Tank 18 was initiated on October 10 – 12, 1999, in accordance with 7CCR 1101-14, Storage Tank Regulations, Colorado Department of Labor and Employment, Oil Inspection Section. The diesel tank was drained of fuel, the inlets to the tank were secured and the secondary containment was visually inspected for leakage. No leakage was observed. The tank was removed on October 12, 1999 and shipped to the Site garage, Building 331, for future re-use.

2 7 Staining Inspection

A visual inspection of Buildings 727, 782 and 783 is provided under Section 5. No unusual staining or odors were identified in these buildings.

2 8 Quality Assurance

The sampling, analysis, and data for this report was obtained in accordance with the Quality Assurance Program used by RFETS Analytical Services. Consequently, Quality Assurance requirements described in Section 5 of the Building 779 Non-Radiological Closeout Plan were met.

3.0 CONCLUSION

In conclusion, waste chemicals, and hazardous and toxic contaminants, introduced into Buildings 727, 782, and 783 have been removed or reduced to levels that are no longer hazardous or toxic. The release criteria identified in Section 2.0 of this report were accomplished through the building stripout process. Physical evaluation of the building and sampling were performed to confirm that Buildings 727, 782 and 783 met the release criteria in support of facility demolition.

4 0 REFERENCES

- 4 1 *Rocky Flats Cleanup Agreement (RFCA)*
- 4 2 *Decommissioning Operations Plan for the 779 Cluster Interim Measure/Interim Remedial Action, Rev 0, February 1998*
- 4 3 *Reconnaissance Level Characterization Plan for the 779 Cluster, Rev 0, December 17, 1997*
- 4 4 *Reconnaissance Level Characterization Report for the 779 Cluster, Rev 0, December 17, 1997*
- 4 5 *Asbestos Characterization Report for the 779 Cluster Project, Rev 0, October 1997*
- 4 6 *Lead/Metals in Paint Characterization For Building 779 Cluster, Rev 0, August 6, 1998*
- 4 7 *Radiological Closeout Survey Plan for the Building 779 Cluster, Rev 2, June 1999*
- 4 8 *Procedure DA-GR01-v1-1, Analytical Services General Guidelines for Data Verification and Validation*
- 4 9 *29 CFR 1926 1101, Colorado Regulation 8, Asbestos*
- 4 10 *PCBs - 40 CFR 761, EPA 560/5/86-017, SW-846 Method 4020 Screening for PCBs by Immunoassay, Method 8082, PCBs by Gas Chromatography, disposal requirements - 40CF Part 761 62*
- 4 11 *6 CCR 1007-3, Part 262 11, Hazardous Waste Determination, and 40 CFR 268 SW-846*
- 4 12 *Toxicity Characteristic Leaching Procedure, EPA SW 846 Method 1311*
- 4 13 *MAN-071-IWCP, Integrated Work Control Program Manual*

5 0 Visual Inspection Check Sheet

779 CLUSTER CLOSURE PROJECT NON-RADIOLOGICAL CLOSEOUT VISUAL INSPECTION CHECK SHEET			
AREA/ROOMS INSPECTED the following rooms were inspected 100, 101, 101A, 103, 103A, 103B, 104, 116, 118, 119, 120, 121, 121A, 121B, 122, 123, 124, 125, 126, 127, 128, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 140A, 141, 141A, 141B, 141C, 142, 170, 171, 172 and the southern portion of the east loading dock			
Note All walls within the main part of the building have been removed and inspected, therefore, not all rooms identified in Section 2 are called out on this inspection check sheet			
INSPECTION CATEGORY	YES	NO	COMMENTS
STAINING OBSERVED	X		Several locations showed signs of roof leakage There were no indications of unusual color There were no floor stains
UNUSUAL ODOR PRESENT		X	No unusual odors were identified
SPECIFIED COMPONENTS REMOVED	X		
ACTIONS REQUIRED None			
PERFORMED BY <u>nathy Byrk</u> DATE <u>2-3-00</u>			

VISUAL INSPECTION RESULTS

Staining Observed

The visual inspection completed for the B-Annex, Main and Utility Areas in Building 779 is identified the following

- 1 The dock area has minor rust staining from roof-water leakage No further action is required based on this observation
- 2 Localized minor staining was observed on the ceiling of several rooms at the roof seams The stains are attributed to leakage of rainwater and snowmelt No further action is required based on this observation

Specified Components Removed

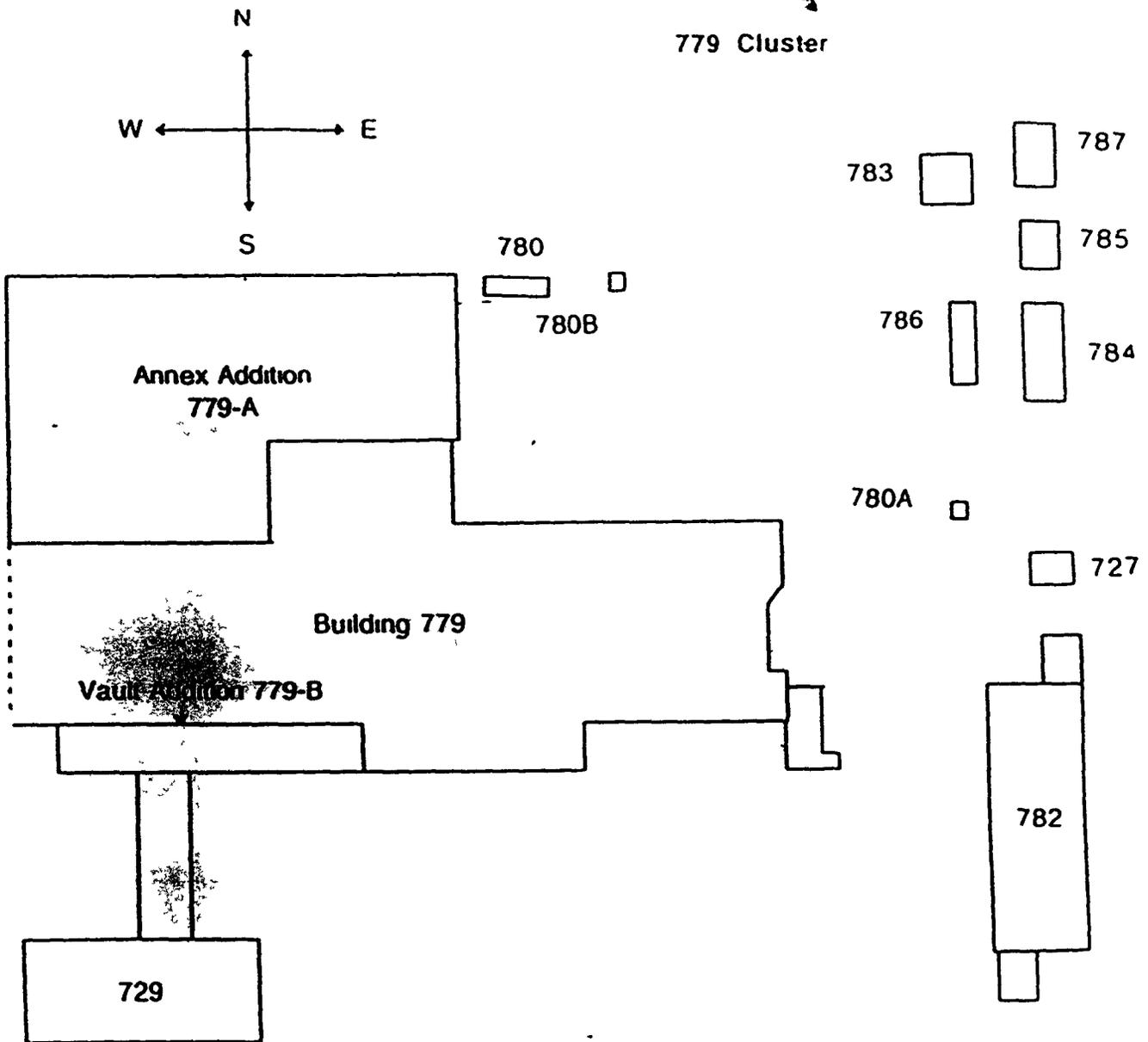
The facility has been stripped out of all equipment and components have been removed on accordance with the Non-Radiological Closeout Plan and in support of the radiological closeout survey Some conduit and piping remains and will be removed from the building rubble during demolition

The structure's non-loads bearing interior walls have been removed Therefore, although the inspection sheet identifies individual room numbers the inspection covered all the remaining areas Painted surfaces, primarily black water sealant, remain in the remaining structure The sealant has been sampled and contains no hazardous constituents The exterior painted surfaces have been sampled and although the paint does contain lead, the lead is not in a leachable matrix as discussed in the text of this document

All hazardous chemicals have been removed from the facility

Appendix A
Maps Depicting the Buildings 727, 782, 783

3



- | | |
|------|---|
| 727 | Emergency diesel generator facility serving Building 779 |
| 729 | Facility containing filter plenums and emergency diesel generator |
| 779 | Research and Development Center |
| 780 | Paint/Storage Facility |
| 780A | Metal Storage Facility. |
| 780B | Gas Bottle Storage Facility |
| 782 | Filter Plenum Exhaust Enclosure For Building 779 Exhaust |
| 783 | Building 779 Cooling Tower Pump House |
| 784 | Building 779 Cooling Tower Support Facility (A B C D) |
| 785 | Building 779 Cooling Tower Support Facility |
| 786 | Building 779 Cooling Tower West Chiller |
| 787 | Building 779 Cooling Tower East Chiller (A B C D) |

779 Cluster Layout

Appendix A
 Map Depicting the
 Building 727,782,783
 Page A1 of A1

Appendix B
Asbestos Results

3

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
AIHA Certificate of Accreditation #480, Lab ID 10768

TABLE I. NIOSH 7400 FIBER COUNT ANALYSIS

RES Job Number: RES 62670-1
 Client: Kaiser-Hill Analytical Services Division
 Client Project: 9820180, 7798782
 Date Samples Received: August 30, 1999
 Analysis Type: PCM 7400 A, Issues 2, Air
 Turnaround: 2 Hour

Client ID Number	Lab ID Number	Air Volume Sampled (L)	Fields Analyzed	Fiber Count	Fiber Density (F/mm ³)	Limit of Detection (F/cc)	Fiber Concentration (F/cc)
779-890830-MS-001	EM 430626	1310	100	3.5	BDL	0.002	BDL
779-890830-MS-002	EM 430627	1299	100	2.5	BDL	0.002	BDL
779-890830-MS-003	EM 430628	1321	100	2.5	BDL	0.002	BDL
779-890830-MS-004	EM 430629	1304	100	3.0	BDL	0.002	BDL
779-890830-MS-005	EM 430630	1302	100	3.5	BDL	0.002	BDL
779-890830-MS-006	EM 430631	0	100	ND	BDL	---	---
779-890830-MS-007	EM 430632	0	100	ND	BDL	---	---

Field Area = 0.00786 sq mm Fiber area = 385 sq mm
 Note: Estimated Limit of Detection for 7400 Method is 7 F/cc mm
 NA = Not Analyzed
 Referenced Interlaboratory Sr, s = 0.45

BDL = Below Detection Limit
 ND = Cannot Be Read, see Table II

MT
Data QA

Appendix C

Beryllium Results

3

A	B	C	D	E	F	G
Room Number	Date	Sample Number	Reporting Limit micro grams/100cm2	Location/Description	Smear Results micro grams/100ft ² (unless otherwise indicated)	Sample Method or RIN#
1						
680	3/26/98	782-F-009	NA	Floor east middle	0 04	98D1539
681	3/26/98	782-F-010	NA	Floor southeast	0 04	98D1539
682	3/26/98	782-F-011	NA	Floor South Doorway	0 04	98D1539
683	3/26/98	782-F-012	NA	Floor west wall	0 04	98D1539
684	3/26/98	782-F-013	NA	Floor south of Plenum FP-401	0 04	98D1539
685	3/26/98	782-F-014	NA	Floor west doorway	0 04	98D1539
686	3/26/98	782-F-015	NA	Floor northwest corner	0 04	98D1539
687	3/26/98	782-F-016	NA	Floor northeast corner	0 04	98D1539
688	3/26/98	782-F-017	NA	Floor southeast corner	0 04	98D1539
689	3/26/98	782-F-018	NA	Tunnel Entrance	0 04	98D1539
690	3/26/98	782-F-019	NA	Tunnel	0 04	98D1539
691	7/2/99	99Z8281-001	0 2	Beryllium Filter	0 05	99Z8281
692	7/2/99	99Z8281-001R	0 2	Beryllium Filter	0 05	99Z8281
693	7/2/99	99Z8281-002	0 2	Beryllium Filter	0 08	99Z8281
694	7/2/99	99Z8281-003	0 2	Beryllium Filter	0 05	99Z8281
695	7/2/99	99Z8281-004	0 2	Beryllium Filter	0 05	99Z8281
696	7/2/99	99Z8281-005	0 2	Beryllium Filter	0 05	99Z8281
697	7/2/99	99Z8281-006	0 2	Beryllium Filter	0 05	99Z8281
698	7/2/99	99Z8281-007	0 2	Beryllium Filter	0 05	99Z8281
699	7/2/99	99Z8281-008	0 2	Beryllium Filter	0 05	99Z8281
700	7/2/99	99Z8281-009	0 2	Beryllium Filter	0 05	99Z8281
701	7/2/99	99Z8281-010	0 2	Beryllium Filter	0 05	99Z8281
702	7/2/99	99Z8281-011	0 2	Beryllium Filter	0 05	99Z8281
703	7/2/99	99Z8281-012	0 2	Beryllium Filter	0 09	99Z8281
704	7/2/99	99Z8281-013	0 2	Beryllium Filter	0 05	99Z8281
705	7/2/99	99Z8281-014	0 2	Beryllium Filter	0 05	99Z8281
706	7/2/99	99Z8281-015	0 2	Beryllium Filter	0 05	99Z8281
707	7/21/99	779-07211999-13-501	0 2	Motor	<0 1 q/100cm2	*
708	7/21/99	779-07211999-13-502	0 2	Motor	<0 1 q/100cm2	*
709	7/21/99	779-07211999-13-503	0 2	Motor	<0 1 q/100cm2	*

* Analysis for Be using NIOSH method 7300 elements by IGP

	A	B	C	D	E	F	G
	Room Number	Date	Sample Number	Reporting Limit micro grams/100cm ²	Location/Description	Smear Results micro grams/100ft ² (unless otherwise indicated)	Sample Method or RIN#
1							
710	782	7/21/99	779-07211999-13-504	0.2	Motor	<0.1 q/100cm ²	*
711	782	7/21/99	779-07211999-13-505	0.2	Motor	<0.1 q/100cm ²	*
712	782	7/21/99	779-07211999-13-506	0.2	Motor	<0.1 q/100cm ²	*
713	782	7/21/99	779-07211999-13-507	0.2	Motor	<0.1 q/100cm ²	*
714	782*	7/21/99	779-07211999-13-508	0.2	Motor	<0.1 q/100cm ²	*
715	782	7/21/99	779-07211999-13-509	0.2	Motor	<0.1 q/100cm ²	*
716	782	7/21/99	779-07211999-13-510	0.2	Motor	<0.1 q/100cm ²	*
717	782	7/21/99	779-07211999-13-511	0.2	Motor	<0.1 q/100cm ²	*
718	782	7/21/99	779-07211999-13-512	0.2	Motor	<0.1 q/100cm ²	*
719	782	7/21/99	779-07211999-13-513	0.2	Motor	<0.1 q/100cm ²	*
720	782	7/21/99	779-07211999-13-514	0.2	Motor	<0.1 q/100cm ²	*
721	782	7/21/99	779-07211999-13-515	0.2	Motor	<0.1 q/100cm ²	*
722	782	7/21/99	779-07211999-13-516	0.2	Motor	<0.1 q/100cm ²	*
723	782	7/21/99	779-07211999-13-517	0.2	Motor	<0.1 q/100cm ²	*
724	782	7/21/99	779-07211999-13-518	0.2	Motor	<0.1 q/100cm ²	*
725	782	7/21/99	779-07211999-13-519	0.2	Control Panel Top	<0.1 q/100cm ²	*
726	782	7/21/99	779-07211999-13-520	0.2	Control Panel Top	<0.1 q/100cm ²	*
727	782	7/21/99	779-07211999-13-521	0.2	Control Panel Front	<0.1 q/100cm ²	*
728	782	7/21/99	779-07211999-13-522	0.2	Control Panel Top	<0.1 q/100cm ²	*
729	782	7/21/99	779-07211999-13-523	0.2	Control Panel Top	<0.1 q/100cm ²	*
730	782	7/21/99	779-07211999-13-524	0.2	Control Panel Top	<0.1 q/100cm ²	*
731	782	7/21/99	779-07211999-13-525	0.2	Control Panel Top	<0.1 q/100cm ²	*
732	782	7/21/99	779-07211999-13-526	0.2	Control Panel Top	<0.1 q/100cm ²	*
733	782	10/2/99	779-09141999-14-501	0.2	Top of HEPA Filter Box	<0.0	99Z0304
734	782	10/2/99	779-09141999-14-502	0.2	Top of HEPA Filter	<0.0	99Z0304
735	782	10/2/99	779-09141999-14-503	0.2	Top of HEPA Filter Also Brace	<0.0	99Z0304
736	782	10/2/99	779-09141999-14-504	0.2	Top of HEPA Filter Also Brace	<0.0	99Z0304
737	782	10/2/99	779-09141999-14-505	0.2	Top of HEPA Filter	<0.0	99Z0304
738	782	10/2/99	779-09141999-14-506	0.2	Top of HEPA Filter	<0.0	99Z0304
739	782	10/2/99	779-09141999-14-508	0.2	Floor	0.15	99Z0304

* Analysis for Be using NIOSH method 7300 elements by IGP

	A	B	C	D	E	F	G
	Room Number	Date	Sample Number	Reporting Limit micro grams/100cm ²	Location/Description	Smear Results micro grams/100ft ² (unless otherwise indicated)	Sample Method or RIN#
1							
740	782	10/2/99	779-09141999-14-509	0.2	Floor in Airlock by Door	<0.0	99Z0304
741	782	10/2/99	779-09141999-14-510	0.2	Top of HEPA Filter	<0.0	99Z0304
742	782	10/2/99	779-09141999-14-513	0.2	Top of HEPA Filter	<0.0	99Z0304
743	782	10/2/99	779-09141999-14-514	0.2	Brace and Top of HEPA Filter	<0.0	99Z0304
744	782*	10/2/99	779-09141999-14-515	0.2	Top of HEPA Filter	<0.0	99Z0304
745	782	10/2/99	779-09141999-14-516	0.2	Floor	<0.0	99Z0304
746	782	10/2/99	779-09141999-14-517	0.2	Floor	<0.0	99Z0304
747	782	10/2/99	779-09141999-14-518	0.2	Airlock Floor near door	<0.0	99Z0304
748	782	10/2/99	779-09141999-14-519	0.2	Top of HEPA Filter	<0.0	99Z0304
749	782	10/2/99	779-09141999-14-520	0.2	Top of HEPA Filter and Brace	0.17	99Z0304
750	782	10/2/99	779-09141999-14-521	0.2	Brace and Top of HEPA Filter	<0.0	99Z0304
751	782	10/2/99	779-09141999-14-524	0.2	Brace and Top of HEPA Filter	0.29	99Z0304
752	782	10/2/99	779-09141999-14-525	0.2	Floor	0.28	99Z0304
753	782	10/2/99	779-09141999-14-526	0.2	Floor	5.80	99Z0304
754	782	10/2/99	779-09141999-14-527	0.2	Center of Airlock Floor	<0.0	99Z0304
755	782	10/2/99	779-09141999-14-528	0.2	Top of HEPA Filter	<0.0	99Z0304
756	782	10/2/99	779-09141999-14-529	0.2	Brace and Top of HEPA Filter	<0.0	99Z0304
757	782	10/2/99	779-09141999-14-530	0.2	Brace and Top of HEPA Filter	<0.0	99Z0304
758	782	10/2/99	779-09141999-14-531	0.2	Brace and Top of HEPA Filter	<0.0	99Z0304
759	782	10/2/99	779-09141999-14-532	0.2	Brace and Top of HEPA Filter	<0.0	99Z0304
760	782	10/2/99	779-09141999-14-535	0.2	Brace and Top of HEPA Filter	<0.0	99Z0304
761	782	10/2/99	779-09141999-14-536	0.2	Floor	<0.0	99Z0304
762	782	12/22/99	00Z1045-001	0.2	Center of Airlock Floor	<0.0	99Z0304
763	782	12/22/99	00Z1045-001R	0.2	Filter Plenum	0.02	00Z1045
764	782	12/22/99	00Z1045-002	0.2	Filter Plenum	0.02	00Z1045
765	782	12/22/99	00Z1045-003	0.2	Filter Plenum	0.05	00Z1045
766	782	12/22/99	00Z1045-004	0.2	Filter Plenum	0.02	00Z1045
767	782	12/22/99	00Z1045-005	0.2	Filter Plenum	0.02	00Z1045
768	782	12/22/99	00Z1045-006	0.2	Filter Plenum	0.02	00Z1045
769	782	12/22/99	00Z1045-007	0.2	Filter Plenum	0.02	00Z1045

* Analysis for Be using NIOSH method 7300 elements by IGP

A	B	C	D	E	F	G
Room Number	Date	Sample Number	Reporting Limit micro grams/100cm ²	Location/Description	Smear Results micro grams/100ft ² (unless otherwise indicated)	Sample Method or RIN#
1						
770	12/22/99	00Z1045-008	0.2	Filter Plenum	0.02	00Z1045
771	12/22/99	00Z1045-009	0.2	Filter Plenum	0.02	00Z1045
772	12/22/99	00Z1045-010	0.2	Filter Plenum	0.02	00Z1045
773	12/22/99	00Z1045-011	0.2	Filter Plenum	0.02	00Z1045
774	12/22/99	00Z1045-012	0.2	Filter Plenum	0.02	00Z1045
775	12/22/99	00Z1045-013	0.2	Filter Plenum	0.02	00Z1045
776	12/22/99	00Z1045-014	0.2	Filter Plenum	0.02	00Z1045
777	12/22/99	00Z1045-015	0.2	Filter Plenum	0.02	00Z1045
778	12/22/99	00Z1045-016	0.2	Filter Plenum	0.02	00Z1045

* Analysis for Be using NIOSH method 7300 elements by IGP

Recra LabNet - Lincolnville

INORGANICS DATA SUMMARY REPORT 04/07/98

FAXED

CLIENT: K-N RIN#98D1539

RECRA LOT # 9803E162

WORK ORDER: 11820-001-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNIT	REPORTING LIMIT	DILUTION FACTOR
-001	F-001	Beryllium, Total	0.04	u UG	0.04	1.0
-002	F-002	Beryllium, Total	0.04	u UG	0.04	1.0
-003	F-003	Beryllium, Total	0.04	u UG	0.04	1.0
-004	OH-004	Beryllium, Total	0.04	u UG	0.04	1.0
-005	F-005	Beryllium, Total	0.04	u UG	0.04	1.0
-006	F-006	Beryllium, Total	0.04	u UG	0.04	1.0
-007	F-007	Beryllium, Total	0.04	u UG	0.04	1.0
-008	B-008	Beryllium, Total	0.04	u UG	0.04	1.0
-009	F-009	Beryllium, Total	0.04	u UG	0.04	1.0
-010	F-010	Beryllium, Total	0.04	u UG	0.04	1.0
-011	F-011	Beryllium, Total	0.04	u UG	0.04	1.0
-012	F-012	Beryllium, Total	0.04	u UG	0.04	1.0
-013	F-013	Beryllium, Total	0.04	u UG	0.04	1.0
-014	F-014	Beryllium, Total	0.04	u UG	0.04	1.0
-015	F-015	Beryllium, Total	0.04	u UG	0.04	1.0
-016	F-016	Beryllium, Total	0.04	u UG	0.04	1.0
-017	F-017	Beryllium, Total	0.04	u UG	0.04	1.0
-018	F-018	Beryllium, Total	0.04	u UG	0.04	1.0
-019	F-019	Beryllium, Total	0.04	u UG	0.04	1.0
-020	F-020	Beryllium, Total	0.04	u UG	0.04	1.0

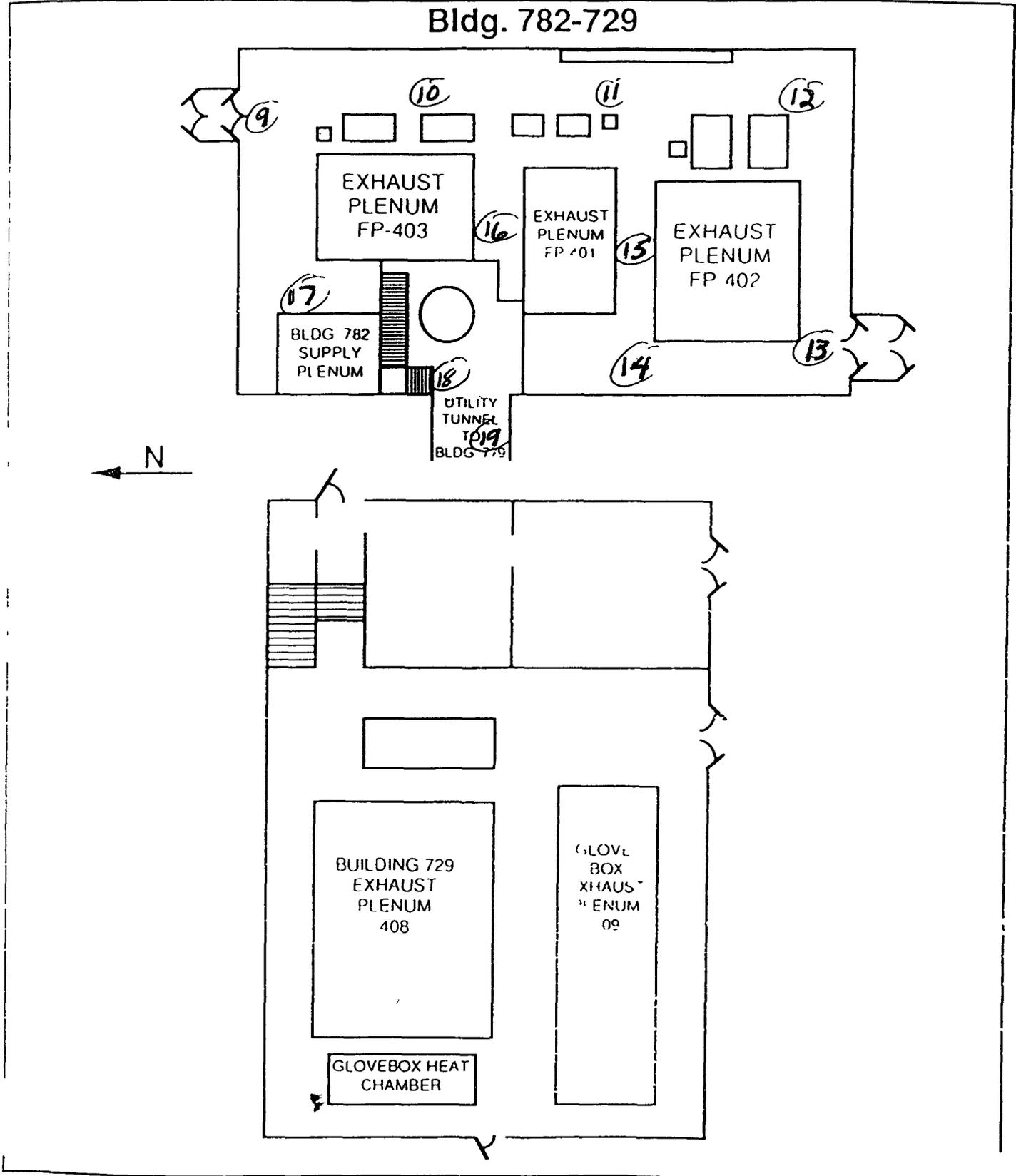
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

FC-2-01-27-08

PAGE 3 OF 6

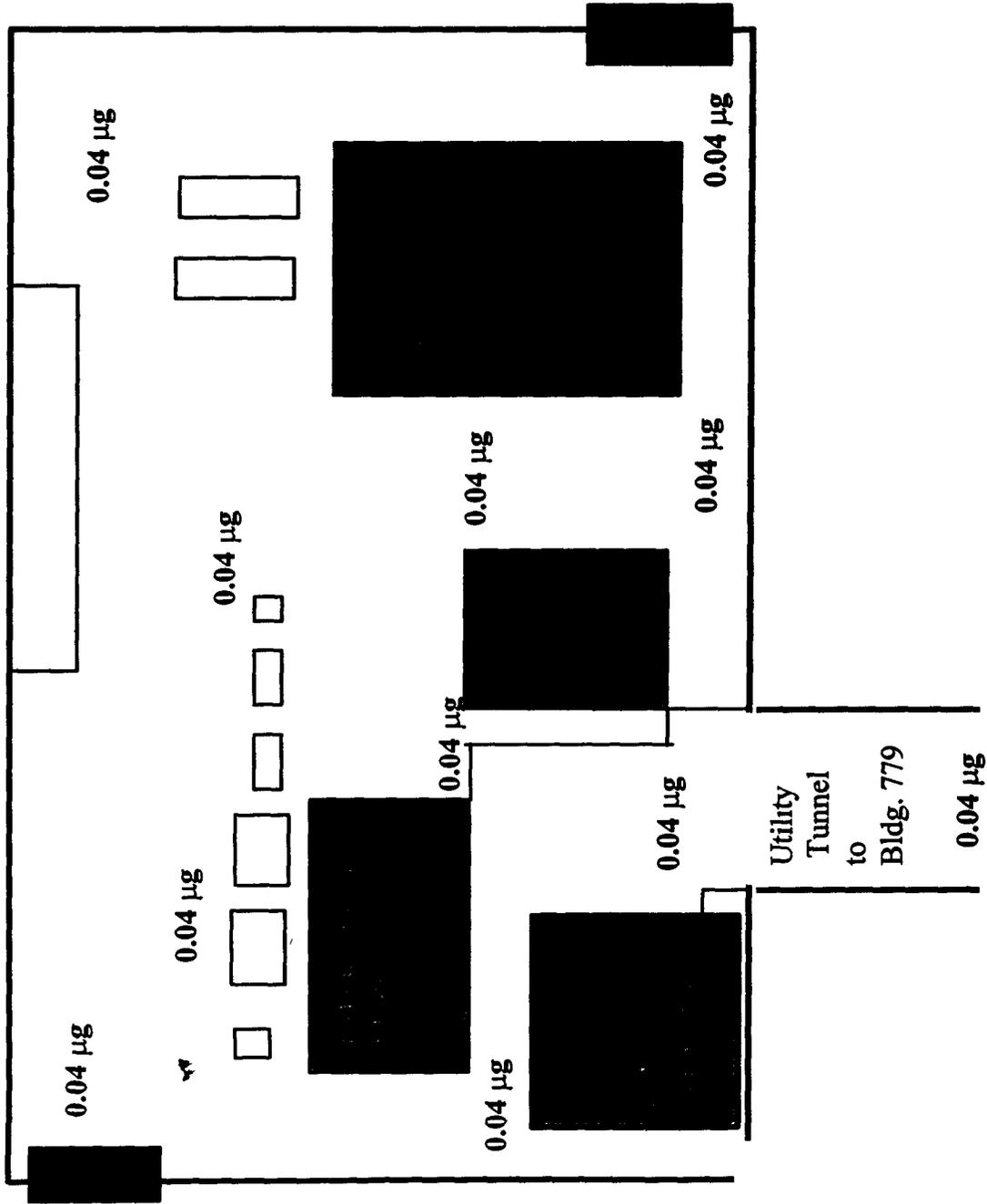
Radiological Operations
Drawing Showing Survey Points

Bldg. 782-729



Building 782 Beryllium Surface Control Levels

May 5, 1998



•All Locations taken on the floor
 •All results below surface control levels
 •Reported in Micrograms per square foot



FORM 1A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories
 Section: ICPAES SDG No. : JUL02
 Matrix: Filter X QC Report No.: SD070299.RBE

Concentration Units: ug Be/Filter

Elements Identified and Measured

Lab Sample ID:	Analyte	Concentration	C	Sampled Date	Receipt Date	M
99Z8281-001	Beryllium	0.0500	U	6/10/99	7/2/99	P
99Z8281-001R	Beryllium	0.0500	U	6/16/99	7/2/99	P
* 99Z8281-002	Beryllium	0.0820	U	6/11/99	7/2/99	P
99Z8281-003	Beryllium	0.0500	U	6/11/99	7/2/99	P
99Z8281-004	Beryllium	0.0500	U	6/11/99	7/2/99	P
99Z8281-005	Beryllium	0.0500	U	6/14/99	7/2/99	P
99Z8281-006	Beryllium	0.0500	U	6/16/99	7/2/99	P
99Z8281-007	Beryllium	0.0500	U	6/16/99	7/2/99	P
99Z8281-008	Beryllium	0.0500	U	6/10/99	7/2/99	P
99Z8281-009	Beryllium	0.0500	U	6/16/99	7/2/99	P
99Z8281-010	Beryllium	0.0500	U	6/10/99	7/2/99	P
99Z8281-011	Beryllium	0.0500	U	6/16/99	7/2/99	P
* 99Z8281-012	Beryllium	0.0920	U	6/10/99	7/2/99	P
99Z8281-013	Beryllium	0.0500	U	6/14/99	7/2/99	P
99Z8281-014	Beryllium	0.0500	U	6/16/99	7/2/99	P
99Z8281-015	Beryllium	0.0500	U	6/16/99	7/2/99	P
R BLANK #1	Beryllium	0.0050	U	7/6/99	7/6/99	P
Blank Filter	Beryllium	0.0250	U	7/6/99	7/6/99	P
Spiked Filter	Beryllium	6.0105	U	7/6/99	7/6/99	P

Indicate Analytical Method Used, P - ICP,

Comments

EG&G Rocky Flats ADDITIONAL ANALYTE REQUEST FORM

WS#: _____ Report ID: _____ Title: _____

Matrix Type: cellulose filter

99Z8281

Clarification: There are 13 surface swipe samples consisting of 13 cellulose filters for this project (i.e., samples -001 through -013). These filters require dissolution and subsequent alpha/beta radiochemistry analysis and beryllium determination by ICPE. The 13 filters are individual samples and not two sets of 13 filters as may be implied from the erroneous listing of two bottle numbers on the chain-of-custody form. The two field blanks (samples -014 and -015) require no radiochemistry and are submitted for Be only

Because the original chain-of-custody form has already been accepted and signed for by the SSOC Building 559 Radiological Laboratory, it will not be amended on AST and reissued. This AAR Form will serve as documentation that only 13 filters (+ two field blanks) were submitted for processing.

Additions Authorized by: Roger S. Cichon Date: 7/6/99
Container Code(s): _____ Glass: _____ P - Plastic: _____ High Density Polyethylene, (WMI) - Wide Mouth Container with Teflon Liner
Copies of analyte additions and deletions must be sent to both SMO and WIC offices.

FORM 1A

FAXED
7-12-99

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 558 PA Inorganic Laboratories
 Section: ICPAES SDG No. JUL02
 Matrix: Filter X QC Report No. SD070299_RBE
 Concentration Units: ug Be/Filter

COVER PAGE

INORGANIC ANALYSIS DATA PACKAGE

Lab Name: Building 558 PA Inorganic Laboratories SDG No. 783
 Section: ICPAES
 QC Report Number: SD070299_RBE SDG No. JUL02

Lab Sample ID's beginning with 'X' are TCLP Extracts.

Sample No.	APO Sample I.D.	Lab Sample ID
1	SD070299-001	Beryllium Filter 783-02-08-18-13-03HE
2	SD070299-002R	Beryllium Filter, Residuals 783-02-08-18-13-03HE
3	SD070299-003	Beryllium Filter 783-02-08-18-13-03HE
4	SD070299-004	Beryllium Filter 783-02-08-18-13-03HE
5	SD070299-005	Beryllium Filter 783-02-08-18-13-03HE
6	SD070299-006	Beryllium Filter 783-02-08-18-13-03HE
7	SD070299-007	Beryllium Filter 783-02-08-18-13-03HE
8	SD070299-008	Beryllium Filter 783-02-08-18-13-03HE
9	SD070299-009	Beryllium Filter 783-02-08-18-13-03HE
10	SD070299-010	Beryllium Filter 783-02-08-18-13-03HE
11	SD070299-011	Beryllium Filter 783-02-08-18-13-03HE
12	SD070299-012	Beryllium Filter 783-02-08-18-13-03HE
13	SD070299-013	Beryllium Filter 783-02-08-18-13-03HE
14	SD070299-014	Beryllium Filter 783-02-08-18-13-03HE
15	SD070299-015	Beryllium Filter 783-02-08-18-13-03HE
16	SD070299-016	Beryllium Filter 783-02-08-18-13-03HE
17	BLANK #1	Controlled Waste (Residuals) #
18	Blank Filter	Blank Filter
19	Spiked Filter	Spiked Beryllium Filter

Were ICP Inter-element Corrections applied? Yes/No Y

Were ICP Background Corrections applied? Yes/No Y

I have reviewed the following data for the Sample No.'s listed above.

Signature: *Yvonne B. Manna*
 Date: *July 7, 1999* Title: Analyst/Chemist
 Signature: _____ Title: Reviewer
 Date: _____

FAXED
JUL - 7 1999

20 p

FAX NO. 303 966 2558

JUL-7-99 MED 14141 RAD LABS

Best Available Copy

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Kaiser-Hill

Collector: RUSSELL WADE
 Telephone No. MSN
 Project Title: 99Z8281
 Building 559 Laboratory
 To (Lab): Building 559 Laboratory
 Protocol:

Contract/Requester: RUSSELL WADE
 Sampling Origin: 782
 Logbook No.
 Method of Shipment

Purchase Order/Charge Code
 Ice Chest No.
 Bill of Lading/Air Bill No.
 Outside Property No.

Total Activity Exemption: Yes No

SPECIAL INSTRUCTIONS Hold Time
 ME - hood exhaust, BE - building exhaust

Bole No.	Customer Number	Matrix	Date	Time	Location	No/Type Container	Sample Analysis	Preservative, Package
99Z8281-001.001	782-89-06-18-13-03HE	SOLID			782	125-G G	PA04A014 (Alpha/Beta Radscreen) [Rush]	-1
99Z8281-001.002	782-89-06-16-13-03HE	SOLID			782	1-FILTER N/A	NR01A001 (Beryllium Filter Analysis) [Rush]	N/A None
99Z8281-002.001	782-89-06-11-13-03HE	SOLID			782	125-G G	PA04A014 (Alpha/Beta Radscreen) [Rush]	-1
99Z8281-002.002	782-89-06-11-13-03HE	SOLID			782	1-FILTER N/A	NR01A001 (Beryllium Filter Analysis) [Rush]	N/A None
99Z8281-003.001	782-89-06-11-13-01HE	SOLID			782	125-G G	PA04A014 (Alpha/Beta Radscreen) [Rush]	-1
99Z8281-003.002	782-89-06-11-13-01HE	SOLID			782	1-FILTER N/A	NR01A001 (Beryllium Filter Analysis) [Rush]	N/A None
99Z8281-004.001	782-89-06-11-13-03HE	SOLID			782	125-G G	PA04A014 (Alpha/Beta Radscreen) [Rush]	-1

Inquired By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time

Final Sample Disposition: Disposed Method (e.g., Return to customer, per lab procedure, used in process) Disposed By: _____ Date/Time: _____

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Kaiser-EHI

Telephone No. MSUN FAX

RUN		Customer/Requestor		Telephone No.		Sample Analysis		Preservative / Packing	
Sample No	Matrix	Date	Time	Location	No/Type Container	NR01A001 (Beryllium Filter Analysis) [Rush]	PA04A014 (Alpha/Beta Radscreen) [Rush]	N/A	None
99Z8281-004.002	SOLID			782	1-FILTER N/A				
99Z8281-005.001	SOLID			782	125-G G			-1	-1
99Z8281-005.002	SOLID			782	1-FILTER N/A			N/A	None
99Z8281-006.001	SOLID			782	125-G G			-1	-1
99Z8281-006.002	SOLID			782	1-FILTER N/A			N/A	None
99Z8281-007.001	SOLID			782	125-G G			-1	-1
99Z8281-007.002	SOLID			782	1-FILTER N/A			N/A	None
99Z8281-008.001	SOLID			782	125-G G			-1	-1
99Z8281-008.002	SOLID			782	1-FILTER N/A			N/A	None
99Z8281-009.001	SOLID			782	125-G G			-1	-1
99Z8281-1.002	SOLID			782	1-FILTER N/A			N/A	None

Acquired By	Date/Time	Received By	Date/Time	Repackaged By	Date/Time	Repackaged By	Date/Time	Received By	Date/Time

Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By

DATE/TIME

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Kaiser-Hill

Telephone No. MSIN FAX

Contract/Requestor
RUSSELL WADE

Bole No.	Customer Number	Matrix	Date	Time	Location	No./Type Container	Sample Analysis	Prescriptive : Packag
99Z8281-010 001	782-99-06-10-13-04BE	FILTER			782	125-G G	PA04A014 (Alpha/Beta Radscreen) [Rush]	-1
99Z8281-010.002	782-99-06-10-13-04BE	FILTER			782	1-FILTER N/A	NR01A001 (Beryllium Filter Analysis) [Rush]	N/A None
99Z8281-011 001	782-99-06-16-13-09BE	FILTER			782	125-G G	PA04A014 (Alpha/Beta Radscreen) [Rush]	-1
99Z8281-011 002	782-99-06-16-13-08BE	FILTER			782	1-FILTER N/A	NR01A001 (Beryllium Filter Analysis) [Rush]	N/A None
99Z8281-012 001	782-99-08-10-13-05BE	FILTER			782	125-G G	PA04A014 (Alpha/Beta Radscreen) [Rush]	-1
99Z8281-012 002	782-99-08-10-13-05BE	FILTER			782	1-FILTER N/A	NR01A001 (Beryllium Filter Analysis) [Rush]	N/A None
99Z8281-013 001	782-99-08-14-13-01BE	FILTER			782	125-G G	PA04A014 (Alpha/Beta Radscreen) [Rush]	-1
99Z8281-013 002	782-99-08-14-13-01BE	FILTER			782	1-FILTER N/A	NR01A001 (Beryllium Filter Analysis) [Rush]	N/A None
99Z8281-014 001	782-99-08-16-13-01K1	FILTER			field blank	1-FILTER N/A	NR01A001 (Beryllium Filter Analysis) [Rush]	N/A None
99Z8281-015 001	782-99-06-16-13-01K2	FILTER			field blank	1-FILTER N/A	NR01A001 (Beryllium Filter Analysis) [Rush]	N/A None

Acquired By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time

Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

BUILDING 782

BERYLLIUM SMEAR RESULTS

MAIN ROOM

August 6, 1999

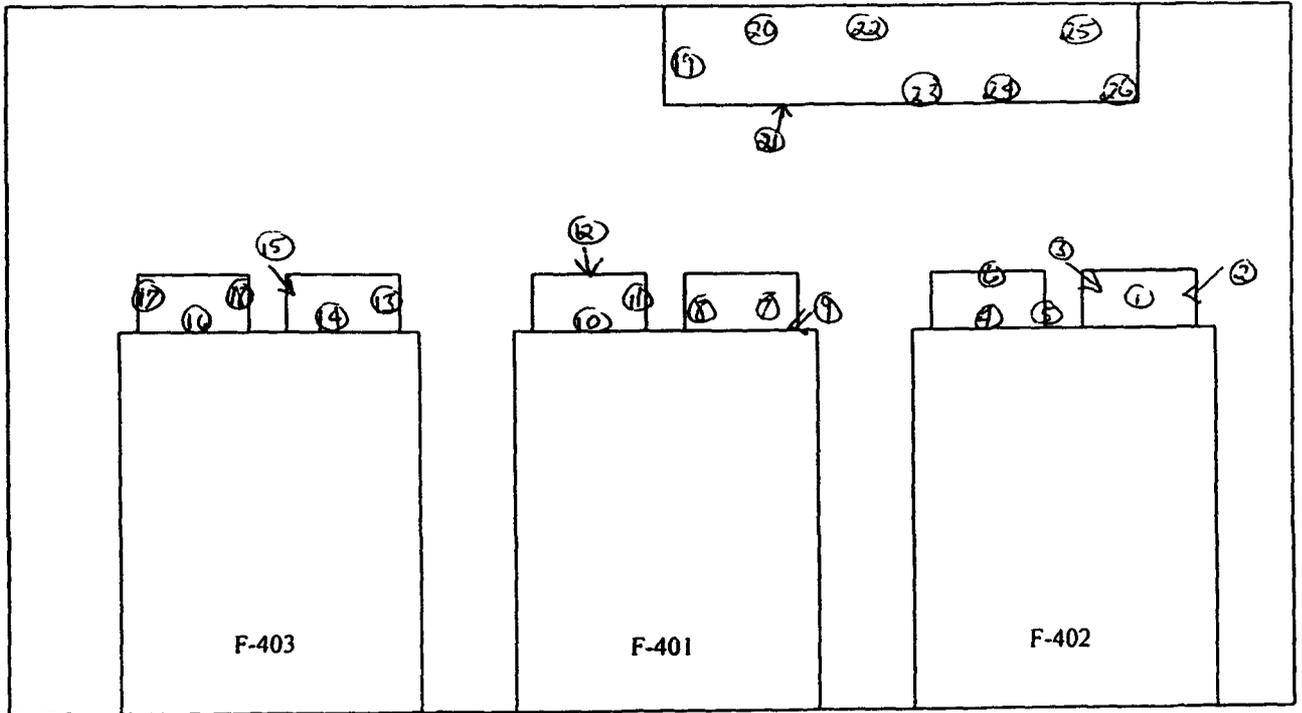
Sample Number	Reporting Limit in dpm/gms	Location Details in dpm/gms/100cm ²
779-07211999-13-501	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-502	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-503	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-504	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-505	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-506	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-507	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-508	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-509	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-510	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-511	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-512	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-513	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-514	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-515	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-516	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-517	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-518	0 l _{ug}	Motor <0 l _{ug} /100cm ²
779-07211999-13-519	0 l _{ug}	Control Panel Top <0 l _{ug} /100cm ²
779-07211999-13-520	0 l _{ug}	Control Panel Top <0 l _{ug} /100cm ²
779-07211999-13-521	0 l _{ug}	Control Panel Front <0 l _{ug} /100cm ²
779-07211999-13-522	0 l _{ug}	Control Panel Top <0 l _{ug} /100cm ²
779-07211999-13-523	0 l _{ug}	Control Panel Top <0 l _{ug} /100cm ²
779-07211999-13-524	0 l _{ug}	Control Panel Top <0 l _{ug} /100cm ²
779-07211999-13-525	0 l _{ug}	Control Panel Top <0 l _{ug} /100cm ²
779-07211999-13-526	0 l _{ug}	Control Panel Top <0 l _{ug} /100cm ²

¹ See attached map of Bldg 782 main room for approximate smear locations. Smears taken on equipment to be released to PU&D
 All smears taken on exterior surfaces per the equipment release guide
² Equipment is electrical control panel and (6) plenum motors from F-401 F-402 and F-403 identification numbers are N/A

Building 782

Beryllium Smear Locations

Main Room

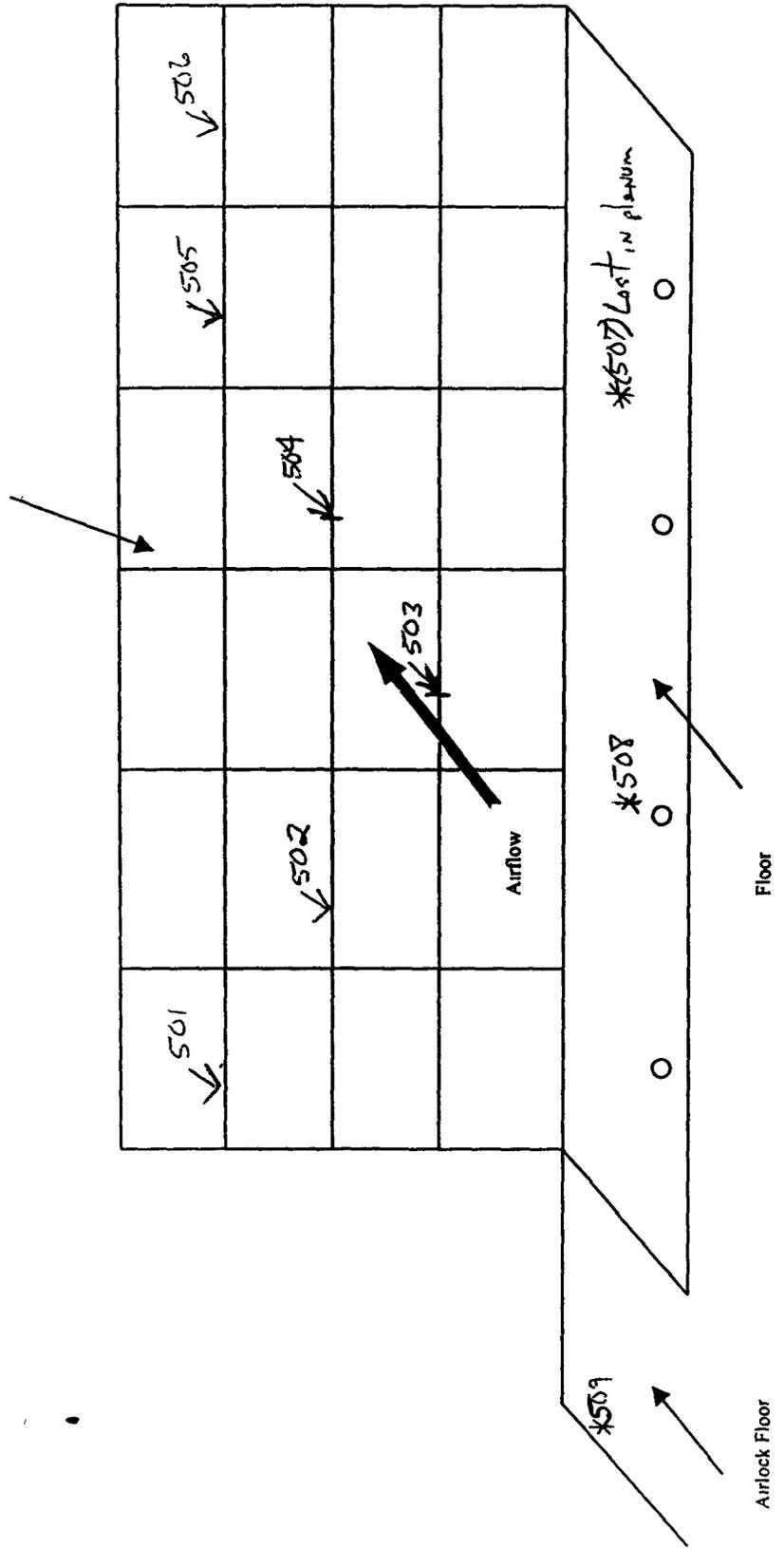


Building 782

Beryllium Smear Locations

Plenums FP403

HEPA Filter
Wall 1st Stage

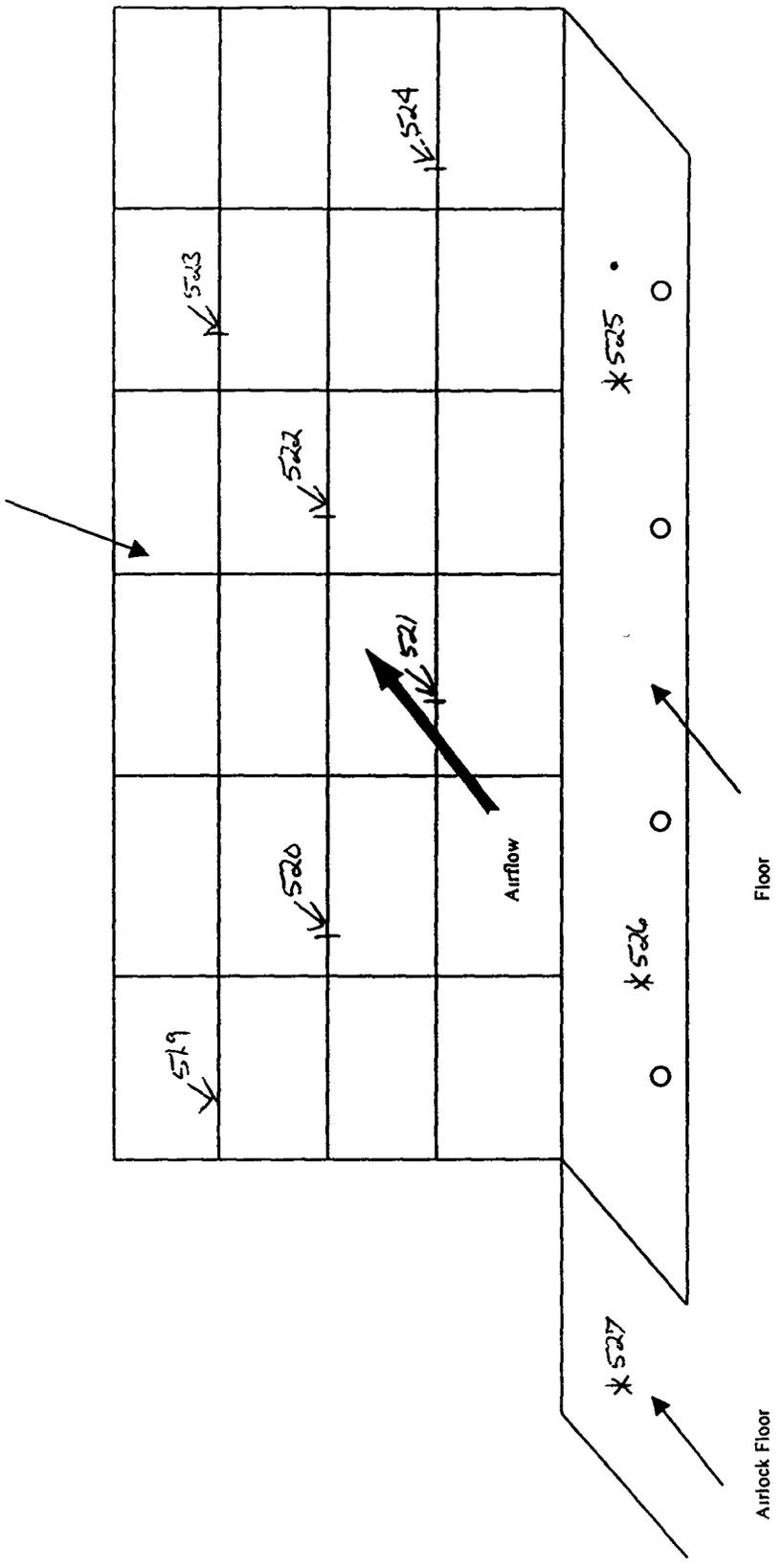


Building 782

Beryllium Smear Locations

Plenums FP402

HEPA Filter
Wall 1st Stage

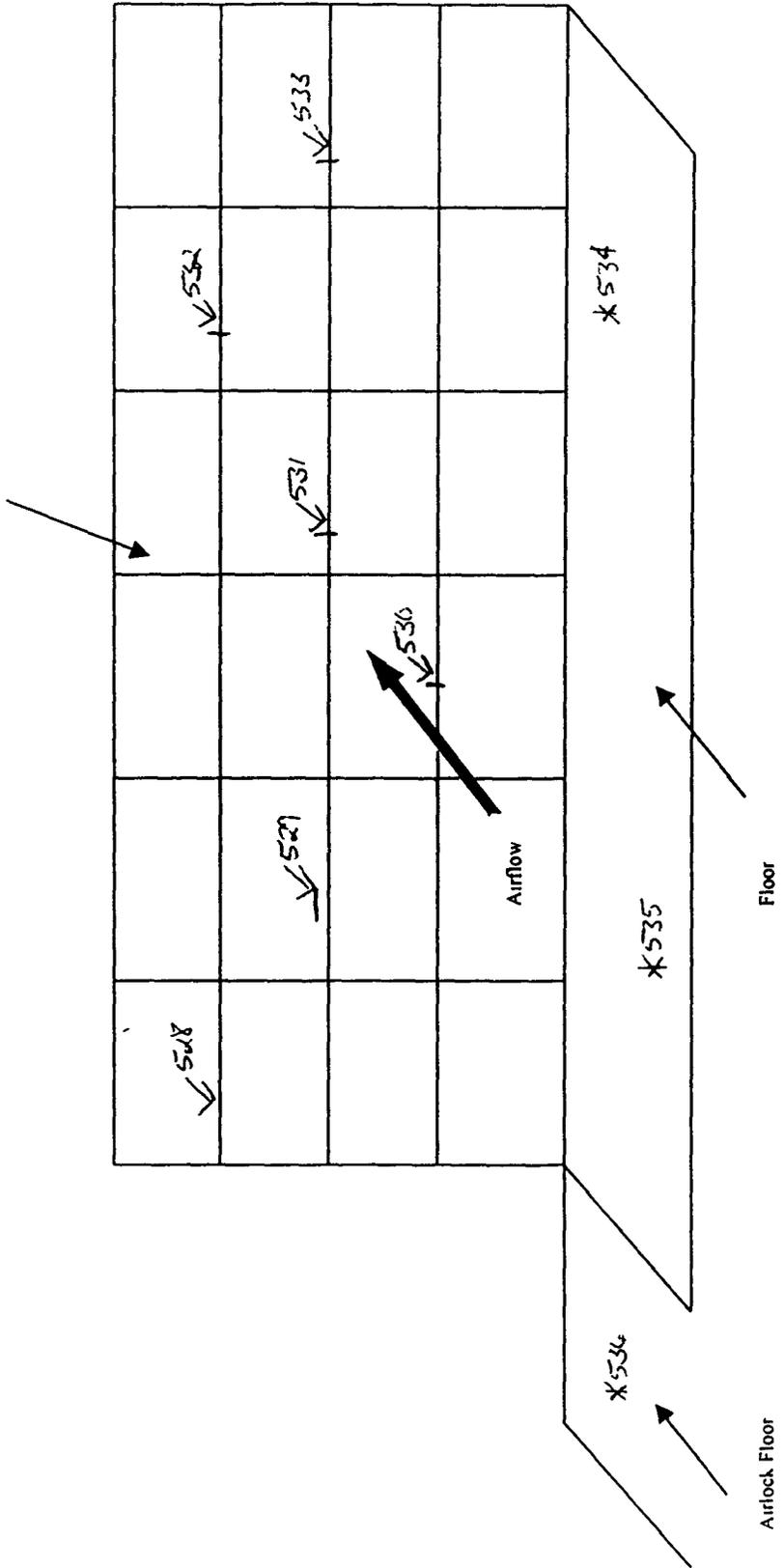


Building 782

Beryllium Smear Locations

Plenums FP402

HEPA Filter
Wall 2nd Stage



Industrial Hygiene Information System Surface Sample Report

IHSR_SURFACE_SAMPLE

Date 10/02/1999

RIN 99Z0304

Sample Number/Type	779-09141999-15-501	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER BOX			
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG/100CM2			
Sample Number/Type	779-09141999 15-502	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER			
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG/100CM2			
Sample Number/Type	779-09141999-15-503	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER ALSO BRACE			
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG/100CM2			
Sample Number/Type	779-09141999-15-504	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER ALSO BRACE			
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG/100CM2			
Sample Number/Type	779-09141999-15-505	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER			
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG/100CM2			
Sample Number/Type	779-09141999-15-506	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER			
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG/100CM2			
Sample Number/Type	779-09141999-15-508	WIPE	Hygienist	WADE RUSSELL
Location Info	FLOOR			
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG/100CM2			
Sample Number/Type	779-09141999-15-509	WIPE	Hygienist	WADE RUSSELL
Location Info	FLOOR IN AIR LOCK BY DOOR			
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	0 1520 UG/100CM2			
Sample Number/Type	779-09141999-15-510	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER			
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG/100CM2			

Industrial Hygiene Information System Surface Sample Report

IHSR_SURFACE_SAMPLE

Date 10/02/1999

RIN 9920304

Sample Number/Type	779-09141999-15-513	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-514	WIPE	Hygienist	WADE RUSSELL
Location Info	BRACE AND TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-515	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-516	WIPE	Hygienist	WADE RUSSELL
Location Info	FLOOR	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-517	WIPE	Hygienist	WADE RUSSELL
Location Info	FLOOR	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-518	WIPE	Hygienist	WADE RUSSELL
Location Info	AIR LOCK FLOOR NEAR DOOR	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-519	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-520	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER AND BRACE	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	0.1725 UG/100CM2	
Sample Number/Type	779-09141999-15-521	WIPE	Hygienist	WADE RUSSELL
Location Info	BRACE AND TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	

Industrial Hygiene Information System Surface Sample Report

IHISR_SURFACE_SAMPLE

Date 10/02/1999

RIN 99Z0304

Sample Number/Type	779-09141999-15-524	WIPE	Hygienist	WADE RUSSELL
Location Info	BRACE AND TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	0.2885 UG/100CM2	
Sample Number/Type	779-09141999-15-525	WIPE	Hygienist	WADE RUSSELL
Location Info	FLOOR	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	5.2810 UG/100CM2	
Sample Number/Type	779-09141999-15-526	WIPE	Hygienist	WADE RUSSELL
Location Info	FLOOR	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	5.7890 UG/100CM2	
Sample Number/Type	779-09141999-15-527	WIPE	Hygienist	WADE RUSSELL
Location Info	CENTER OF AIR LOCK FLOOR	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-528	WIPE	Hygienist	WADE RUSSELL
Location Info	TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-529	WIPE	Hygienist	WADE RUSSELL
Location Info	BRACE AND TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-530	WIPE	Hygienist	WADE RUSSELL
Location Info	BRACE AND TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-531	WIPE	Hygienist	WADE RUSSELL
Location Info	BRACE AND TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-532	WIPE	Hygienist	WADE RUSSELL
Location Info	BRACE AND TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	
Sample Number/Type	779-09141999-15-532	WIPE	Hygienist	WADE RUSSELL
Location Info	BRACE AND TOP OF HEPA FILTER	Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)	
Room No		Concentration	< 0.0000 UG/100CM2	

Industrial Hygiene Information System Surface Sample Report

IHSR_SURFACE_SAMPLE

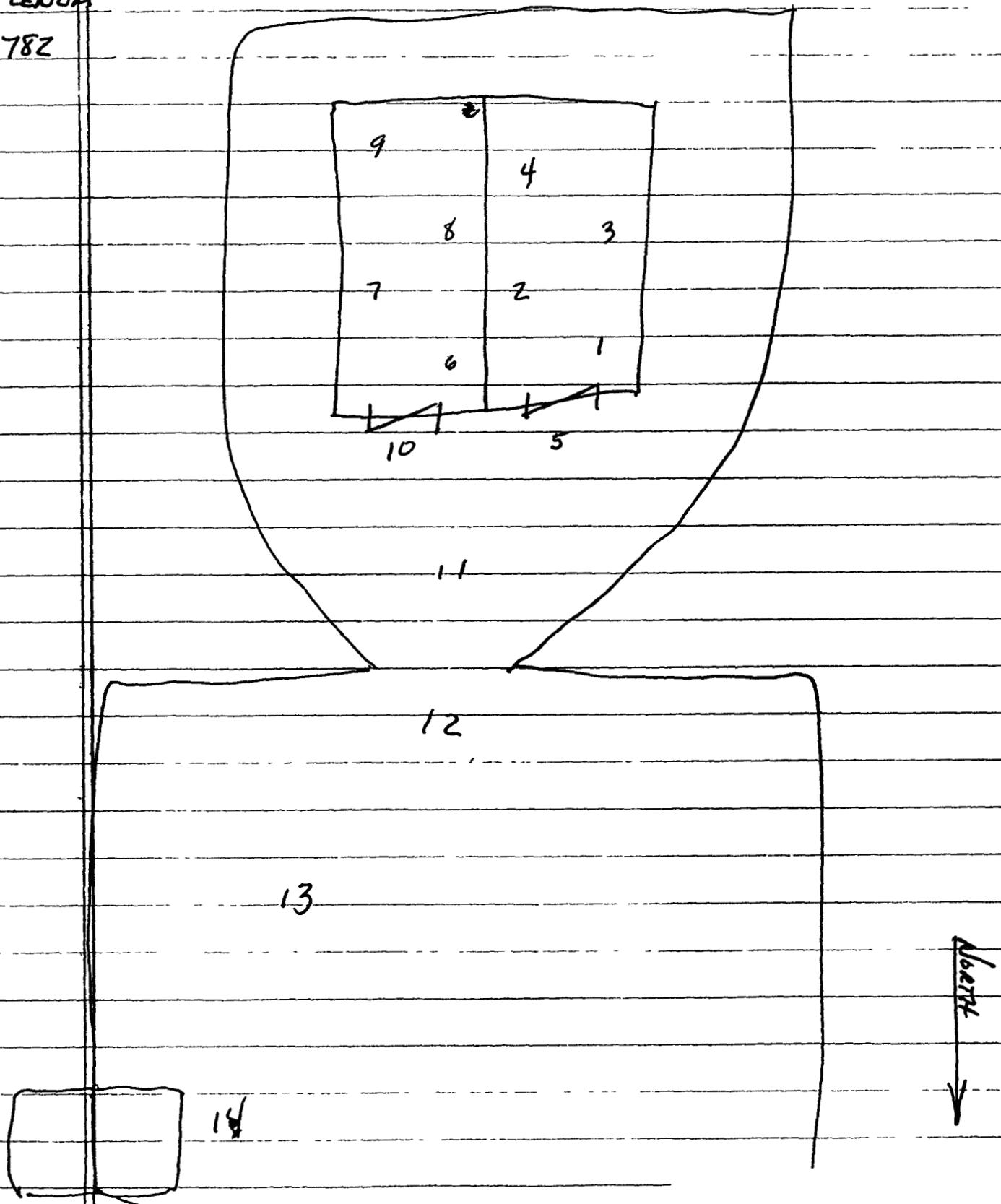
Date 10/02/1999

RIN 99Z0304

Page 4 of 4

Sample Number/Type	779-09141999-15-535	WIPE	Hygienist	WADE RUSSELL
Location Info	FLOOR			
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG/100CM2			
Sample Number/Type	779-09141999-15-536	WIPE	Hygienist	WADE RUSSELL
Location Info	CENTER OF AIR LOCK FLOOR			
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG/100CM2			
Sample Number/Type	779-09141999-15-537	BLANK	Hygienist	WADE RUSSELL
Location Info				
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG			
Sample Number/Type	779-09141999-15-538	BLANK	Hygienist	WADE RUSSELL
Location Info				
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG			
Sample Number/Type	779-09141999-15-539	BLANK	Hygienist	WADE RUSSELL
Location Info				
Room No				
Analyte	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration	< 0 0000 UG			

FILTER PLENUM
BLDG. 782



FORM 1A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 589 PA Inorganic Laboratories

Section: ICPAES SDG No. DEC28

Matrix: Filter X QC Report No.: SD122899 RBE

Concentration Units: ug Be/Filter

Elements Identified and Measured

Lab Sample ID:	Analyte	Beryllium Filters		Sampled Date	Receipt Date	M
		Concentration	C			
00Z1045-001	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-001R	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-002	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-003	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-004	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-005	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-006	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-007	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-008	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-009	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-010	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-011	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-012	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-013	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-014	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-015	Beryllium	0.0250	U	12/22/99	12/22/99	P
00Z1045-016	Beryllium	0.0250	U	12/22/99	12/22/99	P
R BLANK #1	Beryllium	0.0250	U	12/28/99	12/28/99	P
Blank Filter	Beryllium	0.0250	U	12/28/99	12/28/99	P
Spiked Filter	Beryllium	5.6505		12/28/99	12/28/99	P

Indicate Analytical Method Used P - ICP,

Comments:

Kaiser-Hill		C.O.C.#		00Z1045#001	
RFETS		Page 1 of 2		FAX	
Collector	Worley, Ken	Telephone No.	301-966-2155	MISIN	
Run	00Z1045	Purchase Order/Charge Code	KI03PAMG		
Project Title	INDUSTRIAL HYGIENE	Ice Chest No.	N/A	Temp.	
To (Lab)	Building 559 Laboratory	Bill of Lading/Air Bill No.			
Protocol		FREE			
SPECIAL INSTRUCTIONS		Hold Time		Total Activity Exemption	Yes No
POSSIBLE SAMPLE HAZARDS/REMARKS					
Rad samples -- see accompanying paperwork for rad survey results ** **					

Bole No.	Customer Number	Matrix	Date	Time	Location	No/Type Container	Sample Analysis	Preservative Packaging
00Z1045-001 001	782-19891221-15-301	FILTER			782	1-FILTER NA	NF01A001 (Beryllium Filter Analysis) [Routine]	N/A
00Z1045-002 001	782-19891221-15-302	FILTER			782	1-FILTER NA	NF01A001 (Beryllium Filter Analysis) [Routine]	None
00Z1045-003 001	782-19891221-15-303	FILTER			782	1-FILTER NA	NF01A001 (Beryllium Filter Analysis) [Routine]	N/A
00Z1045-004 001	782-19891221-15-304	FILTER			782	1-FILTER NA	NF01A001 (Beryllium Filter Analysis) [Routine]	None
00Z1045-005 001	782-19891221-15-305	FILTER			782	1-FILTER NA	NF01A001 (Beryllium Filter Analysis) [Routine]	N/A
00Z1045-006 001	782-19891221-15-306	FILTER			782	1-FILTER NA	NF01A001 (Beryllium Filter Analysis) [Routine]	None
00Z1045-007 001	782-19891221-15-307	FILTER			782	1-FILTER NA	NF01A001 (Beryllium Filter Analysis) [Routine]	N/A
Relinquished By:	Received By:	Date/Time	Date/Time	Relinquished By:	Received By:	Date/Time	Date/Time	
<i>Ken Worley 12/22/85</i>	<i>Ken Worley 12/22/85</i>							
Relinquished By:	Received By:	Date/Time	Date/Time	Relinquished By:	Received By:	Date/Time	Date/Time	
Relinquished By:	Received By:	Date/Time	Date/Time	Relinquished By:	Received By:	Date/Time	Date/Time	
Relinquished By:	Received By:	Date/Time	Date/Time	Relinquished By:	Received By:	Date/Time	Date/Time	

FINAL SAMPLE DISPOSITION	Disposed By	Date/Time

Best Available Copy

COVER PAGE

INORGANIC ANALYSES DATA PACKAGE



Lab Name: Building 564 PA Inorganic Laboratories

SOV No.: 7/93

Section: ICPAES

QC Report Number: SD122809 RBE

SOQ No.: DEC28

Lab Sample IDs beginning with 'X' are TCLP Extracts.

Sample No.	APC Sample I.D.	Lab Sample ID
1	0021045-001	Beryllium Filters 782-19991221-15-301
2	0021045-001R	Beryllium Filters, Replicate 782-19991221-15-301
3	0021045-002	Beryllium Filters 782-19991221-15-302
4	0021045-003	Beryllium Filters 782-19991221-15-303
5	0021045-004	Beryllium Filters 782-19991221-15-304
6	0021045-005	Beryllium Filters 782-19991221-15-305
7	0021045-006	Beryllium Filters 782-19991221-15-306
8	0021045-007	Beryllium Filters 782-19991221-15-307
9	0021045-008	Beryllium Filters 782-19991221-15-308
10	0021045-009	Beryllium Filters 782-19991221-15-309
11	0021045-010	Beryllium Filters 782-19991221-15-310
12	0021045-011	Beryllium Filters 782-19991221-15-311
13	0021045-012	Beryllium Filters 782-19991221-15-312
14	0021045-013	Beryllium Filters 782-19991221-15-313
15	0021045-014	Beryllium Filters 782-19991221-15-314
16	0021045-015	Beryllium Filters 782-19991221-15-315
17	0021045-016	Beryllium Filters 782-19991221-15-316
18	R BLANK #1	Colonized Water Preparation Blank
19	Blank Filter	Blank Filter
20	Spiked Filter	Spiked Beryllium Filter

Were ICP Inter-element Corrections applied? Yes/No Y

Were ICP Background Corrections applied? Yes/No Y

I have reviewed the following data for the Sample No.'s listed above.

Signature: *Yvonne M. Nappa*
Date: 12/30/99 Title: Analytical Chemist

Signature: *RC. Kelly*
Date: 12/30/99 Title: Reviewer

Comments:
F

A	B	C	D	E	F	G
Room Number	Date	Sample Number	Reporting Limit micro grams/100cm ²	Location/Description	Smear Results micro grams/100cm ²	Sample Method or RIN#
1						
748	3/26/98	783-F-020	0.04	Floor east doorway	0.04	98D1539
749	3/26/98	783-F-021	0.04	Floor center	0.04	98D1539
750	3/26/98	783-F-022	0.04	Floor northeast corner	0.04	98D1539
751	3/26/98	783-F-023	0.04	Floor southeast corner	0.04	98D1539
752	3/26/98	783-F-024	0.04	Floor northwest corner	0.04	98D1539

Analysis for Be using NIOSH method 7300 elements by IGP

SAMPLERS (Signature) Tonya SARGENT, NE / T-779 X-5392 / PRACT-3052

REPORT IDENTIFICATION NUMBER (RIN) 4801539 LAB/LOCATION RECR

RFETS CONTRACTOR BRBS

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE CHAIN OF CUSTODY NUMBER

DATE	TIME	EVENT	BOTTLE	USER ID	LOCATION	CONTAINER	MATRIX
3/26	1230	N/A	N/A	F-013	782	782	WHAT HI FILTER Filter
				F-014			
				F-015			
				F-016			
				F-017			
				F-018			
				F-019			
3/26	1400	N/A	N/A	F-020	783	783	
				F-021			
				F-022			
				F-023			
				F-024			

Acquired By	Date	Time	Received By/Organization	Date	Time	LABORATORY USE ONLY
K. Benedit	3-26-98	14:50	J. Longe Sergeant	3-25-98	14:50	PCKG REC/CUSTODY SEALS INTACT
J. Sencalco	3-30-98	10:15	D. Berger	3-30-98	10:15	SAMPLE LABELS/COCs AGREE
Karen Olson	3/29/98	1500	J. Miller / ACT	3/30/98	1500	TEMPERATURE AT TIME OF RECEIPT ___ °C

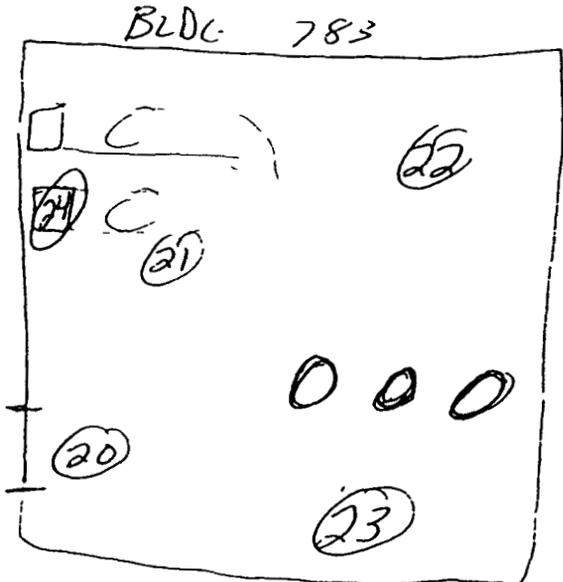
MARKS Charge # KTO30X00 Project

Shipping Requirements Overnight Delivery 2 Day Delivery Air Bill No

RADIOLOGICAL OPERATIONS

CBR 3 of 4
PC-58TG

Drawing Showing
Survey Points



Appendix C
Beryllium Results
Page C33 of C36

#24 - TOTAL SURVEY POINTS

Recra LabNet - Lionville

INORGANICS DATA SUMMARY REPORT 04/07/98

FAXED

CLIENT: K-H RINGROADS39

RECRA LOT # 9803L162

WORK ORDER: 11820-001-001-9999-00

SAMPLE	SITE ID	ANALYTR	RESULT	UNIT	REPORTING LIMIT	DILUTION FACTOR
-001	F-001	Beryllium, Total	0.04	u UG	0.04	1.0
-002	F-002	Beryllium, Total	0.04	u UG	0.04	1.0
-003	F-003	Beryllium, Total	0.04	u UG	0.04	1.0
-004	OH-004	Beryllium, Total	0.04	u UG	0.04	1.0
-005	F-005	Beryllium, Total	0.04	u UG	0.04	1.0
-006	F-006	Beryllium, Total	0.04	u UG	0.04	1.0
-007	F-007	Beryllium, Total	0.04	u UG	0.04	1.0
-008	B-008	Beryllium, Total	0.04	u UG	0.04	1.0
-009	F-009	Beryllium, Total	0.04	u UG	0.04	1.0
-010	F-010	Beryllium, Total	0.04	u UG	0.04	1.0
-011	F-011	Beryllium, Total	0.04	u UG	0.04	1.0
-012	F-012	Beryllium, Total	0.04	u UG	0.04	1.0
-013	F-013	Beryllium, Total	0.04	u UG	0.04	1.0
-014	F-014	Beryllium, Total	0.04	u UG	0.04	1.0
-015	F-015	Beryllium, Total	0.04	u UG	0.04	1.0
-016	F-016	Beryllium, Total	0.04	u UG	0.04	1.0
-017	F-017	Beryllium, Total	0.04	u UG	0.04	1.0
-018	F-018	Beryllium, Total	0.04	u UG	0.04	1.0
-019	F-019	Beryllium, Total	0.04	u UG	0.04	1.0
-020	F-020	Beryllium, Total	0.04	u UG	0.04	1.0

Recca LabNet - Knoxville

INORGANICS DATA SUMMARY REPORT 04/07/98

RECCA LOT #: 98031162

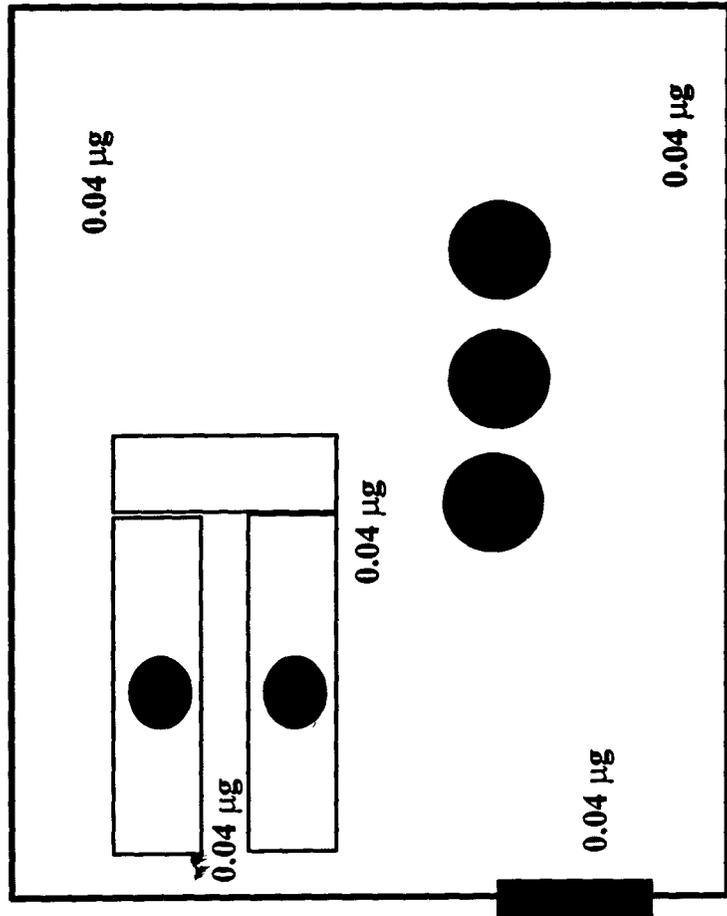
CLIENT: X-H KIM#9AD1539

WORK ORDER: 11830-001-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-021	F-021	Beryllium, Total	0.04	u Dg	0.04	1.0
-022	F-022	Beryllium, Total	0.04	u Dg	0.04	1.0
-023	F-023	Beryllium, Total	0.04	u Dg	0.04	1.0
-024	F-024	Beryllium, Total	0.04	u Dg	0.04	1.0

Building 783 Beryllium Surface Control Levels

May 5, 1998



• All Locations taken on the floor
• All results below surface control levels
• Reported in Micrograms per square foot

Appendix D
RCRA Hazardous Substances
Results (Solids)

3

LEAD/METALS IN PAINT
 CHARACTERIZATION REPORT
 FOR BUILDING 779 CLUSTER

PAINT CHIP BULK SAMPLE DATA TABLE 2-1

Sample Number	Sample Description and Location	Lab Result TCLP * / (ICP)
779-980416-MS-001	Green/white on drywall; from room 150, N wall, 1' W of N exit, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-002	Brown/green/red primer on metal; from room 150 door jamb, N side, 2' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-003	Beige/green on cinderblock; from room 156 N wall, 8' W of NE corner, 6' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-004	Magenta on cinderblock; from room 157 S wall, 3' E of SW corner, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-005	Orange/lt green on cinderblock; from room 157, W wall, 9' N of S wall, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-006	White on concrete; from room 150 ceiling, 10' N of S entry, 28' W of E wall.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-007	Yellow on cinderblock; from room 157, N wall, center.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-008	Blue on cinderblock; from room 157, E wall center, N end.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-009	Off-white on cinderblock; from room 159, W wall, 11' N of SW corner, 5' from the floor	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)

*Note TCLP column denotes in excess of max concentration. Otherwise ND, which means None Detected. ICP column denotes metals detected. Please refer to Lab Data S'

LEAD/METALS IN PAINT
 CHARACTERIZATION REPORT
 FOR BUILDING 779 CLUSTER

Sample Number	Sample Description and Location	Lab Result TCLP * / (ICP)
779-980416-MS-010	Beige/lime green/ on cinderblock; from 237 hall, W wall, 11' S of stairs, 3' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-011	Light blue on plaster; from 777 bridge, N wall, 12' W of E entry, 3' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-012	Black on drywall; from room 234B, E wall, 2' S of E entry, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-013	Lime green/pink on cinderblock; from room 234, E-wall, 3' N of 228 entry, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-014	Red-orange/tan on plaster; from room 234, N wall, 3' E of NW corner, 6' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-015	Lime yellow/tan on plaster; from room 234, W wall, 2' N of SW corner, 3' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-016	Forest-lime green on cinderblock; from room 228 W wall, 10' S of W entry, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-017	Pea green/tan on plaster; from room 228 far S wall, 6' E of SW corner, 3' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-018	Light yellow/tan on cinderblock; from room 228 N wall, 5' E of NW corner, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-019	Aqua/tan on cinderblock and metal, from room 228 S wall and 222 entry door jamb, 3' from the floor	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)

*Note TCLP column denotes in excess of max concentration Otherwise ND, which means None Detected ICP column denotes metals detected Please refer to Lab Data

LEAD/METALS IN PAINT
 CHARACTERIZATION REPORT
 FOR BUILDING 779 CLUSTER

Sample Number	Sample Description and Location	Lab Result TCLP * / (ICP)
779-980416-MS-020	Light pink/beige on cinderblock; from room 222 E wall, 8' N of SE corner, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-021	Pink/beige on concrete; from room 222 W wall, 12' S of NW corner, 3' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-022	Lt. green/lt. blue/tan on concrete and cinderblock; from room 220 W wall, 10' N of 222 entry, 3' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-023	Lt. blue/off-white on metal door; from room 220/218 door, lower left.	chromium / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-024	Lt. pea green on drywall; from room 277 N wall, 2' W of entry, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-025	Lt. green/magenta on drywall; from room 274 N wall, 4' W of entry, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-026	Yellow on cinderblock; from room 221C E wall, 3' S of NE corner, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-027	Lt. pink/beige on drywall; from room 275H N wall, 3' W of 275 entry, 5' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-028	Lime green on drywall; from room 272 E wall, 4' S of entry, 3' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-029	V. Lt. Yellow on cinderblock; from room 229 N wall, 1' E of NW corner, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)

*Note: TCLP column denotes in excess of max concentration. Otherwise ND, which means None Detected ICP column denotes metals detected Please refer to Lab Data

LEAD/METALS IN PAINT
CHARACTERIZATION REPORT
FOR BUILDING 779 CLUSTER

Sample Number	Sample Description and Location	Lab Result TCLP * / (ICP)
779-980416-MS-030	Blue on plaster; from room 231 S wall, 3' E of SW corner, 3' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-031	Tan/beige/red/maroon on metal; from room 231/216 Hall, center of door, E jamb.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-032	Textured beige/tan on concrete and cinderblock; from 779B exterior S wall, 10' W of door 20, 2' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-033	Textured beige/tan on cinderblock; from 779A exterior N wall, 12' W of door 6, 3' from the ground.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-034	Textured beige/tan on cinderblock; from 779 exterior N wall, 30' W of door 16, 5' from the ground.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-035	Textured beige/tan on cinderblock; from 729 exterior W wall, 7' N of W entry, 1' from the ground.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-036 (QA)	Textured beige/tan on cinderblock; from 729 exterior W wall, 7' N of W entry, 1' from the ground.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-037	White gloss on cinderblock; from 729, room 105 S wall, 10' E of SW corner, 5' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-038	White gloss/grey gloss on concrete; from 782 E wall, 25' S of NE corner, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-039	White/beige/lt. green on cinderblock; from room 160, W entry wall, NW corner, 4' from the floor	lead / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)

*Note TCLP column denotes in excess of max concentration Otherwise ND, which means None Detected ICP column denotes metals detected Please refer to Lab Dat

LEAD/METALS IN PAINT
 CHARACTERIZATION REPORT
 FOR BUILDING 779 CLUSTER

Sample Number	Sample Description and Location	Lab Result TCLP * / (ICP)
779-980416-MS-040	Lt. blue/white on cinderblock; from room 154 E wall, 15' S of NE corner, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-041	Tan/green ceramic tile; from room 167 restroom area N wall, 4' E of NE corner, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-042 (QA)	Tan/green ceramic tile; from room 167 restroom area N wall, 4' E of NE corner, 4' from the floor.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-043	Light brown 6" ceramic tile; from room 167 at N dividing wall to restroom vestibule area, E end.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980416-MS-044	Battleship grey on concrete; from 121A floor, 11' N of S entry, 3' E of W wall.	ND / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980721-MS-001	Charcoal grey sheet metal flashing; from 779 roof duct plenum far west N-S extension, 7' N of SE angle, west side.	NA / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)
779-980721-MS-002	Lt. brown/white back corrugated sheet metal; 779 from roof duct plenum far west N-S extension wall, 7' N of SE angle.	NA / (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, others)

*Note TCLP column denotes in excess of max concentration. Otherwise ND, which means None Detected ICP column denotes metals detected. Please refer to Lab Data Sh

SAMPLERS (Signature) M Schluterbusch of X4215 P 5244 F 6530

REPORT IDENTIFICATION NUMBER (RIN) 98A 2065

LAB LOCATION: 559

RFETS CONTRACTOR SEG/RMRS

**ROCKY FLATS
ENVIRONMENTAL TECHNOLOGY SITE
CHAIN OF CUSTODY NUMBER MS-001**

DATE	TIME	EVENT	BOTTLE	USER ID	LOCATION	CONTAINER	MATRIX
4/20	1530	001	001	179-98041	MS-001		
					-002		
					-003		
					-004		
					-005		
					-006		
					-007		
					-008		
					-009		
					-010		
					-011		
					-012	-016	-021

Non-Radiological Closeout Report
for Building 779
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Relinquished By <u>M Schluterbusch</u>	Date <u>4/28/98</u>	Time <u>1530</u>	Recovery Organization <u>779 Rocky Flats Lock Box</u>	Date	Time
PCKG REDUCICUSTODY SEALS INTACT SAMPLE LABELS/COCs AGREE TEMPERATURE AT TIME OF RECEIPT ___ °C					
REMARKS					
Charge #					
Project					
Shipping Rt. <input type="checkbox"/> nls <input type="checkbox"/> Overnight Delivery <input type="checkbox"/> 2-Day Delivery <input type="checkbox"/> Air L <input type="checkbox"/>					

PLERS (Signature) M Schlutebusch / Phone 4215 Pgs 5244

PORT IDENTIFICATION NUMBER (RIN) 98A2065 LAB/LOCATION: 559

TS CONTRACTOR R.M.RS/SEG

**SKY FLATS
ENVIRONMENTAL TECHNOLOGY SITE
MAIN OF CUSTODY NUMBER SEG 006**

TIME	EVENT	BOTTLE	USER ID	LOCATION	CONTAINER	MATRIX	DATE	TIME	TIME	TIME
1	001	001	779-980416	MS-001						
		002	779-980416	MS-002						
		003		-003						
		004		-004						
		005		-005						
		006		-006						
		007		-007						
		008		-008						
		009		-009						
		010		-010						
		011		-011						
		012		-012						

Non-Radiological Closeout Report
for Building 779
Page D7 of D83

Released By: [Signature] Date: 5/13/98 Time: 1410 Received By: [Signature] Date: 5/13/98 Time: 1410

PKRG REGO/CUSTODY SEALS INTACT: N/A

SAMPLE LABELS/COCs AGREE: [initials]

TEMPERATURE AT TIME OF RECEIPT: °C

Charge #: _____ Project: _____

1g Require: Overnight Delivery 2 Day Delivery Air Bill No. _____ A .OC 6/5/97

SAMPLERS (Signature) Schlottsbusch 11/1/04 of 4
 REPORT IDENTIFICATION NUMBER (RIN) 98A2065 / Phone 4215 pgs 5244

NETS CONTRACTOR RMS/SEG LAB LOCATION SS9

DOCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
CHAIN OF CUSTODY NUMBER SEG-006

DATE	TIME	EVENT	BOTTLE	USER ID	LOCATION	CONTAINER	MATRIX
5/18	-	001	025	729-980416	MS-025		
			026		-026		
			027		-027		
			028		-028		
			029		-029		
			030		-030		
			031		-031		
			032		-032		
			033		-033		
			034		-034		
			035		-035		
			036		-036		

Non-Radiological Closeout Report
 for Building 779
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INQUIRING BY <u>Michael J. Johnson</u>	TIME <u>1410</u>	RECEIVED BY/Organization <u>John Johnson</u>	DATE <u>5/13/19</u>	TIME <u>1410</u>	LABORATORY USE ONLY
					PKG RECD/CUSTODY SEALS INTACT <u>N/A</u>
					SAMPLE LABELS/COCs AGREE
					TEMPERATURE AT TIME OF RECEIPT <u>°C</u>

MARKS PRIORITY 2

Shipping Required Overnight Delivery 2 Day Delivery

APO 6/5/07

ROCKY FLATS
 ENVIRONMENTAL TECHNOLOGY SITE
 CHAIN OF CUSTODY NUMBER: 98A5204#001

SAMPLERS (Signature) *M. S. Johnson*
 REPORT IDENTIFICATION NUMBER (RIN): 98A5204
 LABORATORY Building 559 Laboratory
 AGGREGATE AREA 779
 RFPTS CONTRACTOR: RMRS

Bottle Num.	User Samp. Num.	Date	Time	Location	Quantity	Container	Material	Preparation
98A5204-001.001	779-98028-MS 001	7/21/98			1000 ML	PP	Sheet metal	
98A5204-002.001	779-98028-MS 002	7/21/98			1000 ML	PP	Sheet metal	
98A5204-003.001								
98A5204-004.001								
98A5204-005.001								

Non-Radiological Closeout Report
 for Building 779
 Page D11 of D83



POSESSION

Signature: *M. S. Johnson* Date: 7/21/98
 Signature: *M. S. Johnson* Date: 7/21/98
 Signature: *M. S. Johnson* Date: 7/21/98

Charge # KT03CX00
 Project WASTE PROJECTS

Page 1 of 1
 FAXED 7/21/98 APO

REMARKS LAB REQUESTS SHEET METAL SAMPLES TO BE 1 INCH SQUARES OR LESS
 Sheet metal samples - burrs & sharp edges

ROCKY FLATS
 ENVIRONMENTAL TECHNOLOGY SITE
 CHAIN OF CUSTODY NUMBER: 98A5204#001

SAMPLERS (Signature) *M. Schlotterbeck*
 REPORT IDENTIFICATION NUMBER (RIN) 98A5204

LABORATORY Building 559 Laboratory
 AGGREGATE AREA 779
 REFETS CONTRACTOR RMRS

Matrix	Preservation	Container	Location	Time	Date	User Samp Num.	Time	Location	Container
RS08A007 (TCLP Inorganics w/o Hg)	None	100G PIG				779-98021-M5	001		100G PIG
PA03A032 (TCLP Mercury - 559)	None	100G PIG				779-98022-M3	002		100G PIG
	None	100G PIG							100G PIG
	None	100G PIG							100G PIG
	None	100G PIG							100G PIG

OF POSSESSION

Signature: *M. Schlotterbeck* Date/Time: 7/21/98
 Received By: *[Signature]* Date/Time: 7/21/98
 Received By: *[Signature]* Date/Time: 7/21/98
 Received By: *[Signature]* Date/Time: 7/21/98

Charge # KT03CX00
 Project WASTE PROJECTS

Shipping R. ments
 Air Bill No.:
 REMARKS LAB REQUIRES SHEET METAL SAMPLES TO BE 1 INCH SQUARES OR LESS
 Sheet metal samples - burrs & sharp edges

6.6

Turnaround Times for 98A5204

7/17/98 9 31 52 AM

COC Num	Bottle Num.	Line Item Code	Processing
98A5204#001	LAB Building 559 Laboratory		
	98A5204-001 001	PA03A032	Pnorty
		RS08A007	Pnorty
	98A5204-002 001	PA03A032	Pnorty
		RS08A007	Pnorty
	98A5204-003 001	PA03A032	Pnorty
		RS08A007	Pnorty
	98A5204-004.001	PA03A032	Priority
		RS08A007	Priority
	98A5204-005.001	PA03A032	Priority
RS08A007		Priority	

Non-Radiological Closeout Report
for Building 779
Page D13 of D83

AMF - E SUMMARY FOR RIN: 98A5204

RIN Title _____ Sampling Team: _____
 Project Name WASTE PROJECTS Sampling Mgr/Coordinator: _____
 Task Name BLDG 779 Samplers: _____
 Regulate Area: _____ Field Logbook ID: _____
 Matrix Class: _____

Sample summary is supplied to waste generators as notification of sample collection. Inquires into the status of this sampling effort may be directed to the Analytical Services Division (ASD)

Order Number	Customer Bottle Number	Location	LIC (See Attached)	Laboratory	Date Collected	Date Shipped	Date Returned	Comments
A5204-001 001			1,2	Building 559 Laboratory				
A5204-002 001			1,2	Building 559 Laboratory				
A5204-003 001			1,2	Building 559 Laboratory				
A5204-004 001			1,2	Building 559 Laboratory				
A5204-005 001			1,2	Building 559 Laboratory				

Returning Excess Sample Material

rimodified sample material remaining after analysis is generally returned to the generator. The generator must be prepared to receive and dispose of excess sample material for applicable state and federal regulations. Regulatory exclusions for returning excess sample material are specified in the Code of Colorado Regulation (CCR) 1007-3, Part 261 4(d) 'Samples'. If problems with the disposal of excess sample material are encountered, the Environmental Coordinator for the generation area should be contacted for resolution of the issues. Only sample material which has not been modified using analysis will be returned. Material which has been acidified for preservation purposes will not be returned.

Customer Acknowledgement _____ (Sign and Print Name)

Comments: _____
 Form Code's
 PA03A032 (TCLP Mercury - 559)
 RSMA007 (TCLP Inorganics w/o Hg)

Non-Radiological Closeout Report
 for Building 779
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Date 7/17/98 9 30 56 AM

**ANALYTICAL SERVICES DIVISION
SAMPLING AND ANALYSIS REQUEST FORM**

ASD USE ONLY			
RIN	<u>98A5204</u>	Pronty	<u>Priority</u>
ASD Project Lead	<u>STONER, NORM</u>	Phone	<u>4289</u> Pager _____

CUSTOMER INFORMATION

Date 7/17/98 9:03 38

Project Charge No _____

Requestor SCHLUTERBUSCH MIKE Phone 7215 Pager _____
 Bldg _____ Fax: _____

Secondary Contact _____ Phone _____ Pager _____
 Bldg _____ Fax: _____

Fax Data Results To: SAME Phone 6538 Fax: _____

SAMPLE INFORMATION

Sample Location: BLDG 779

Sample Description and Sample Identifiers: SHEET METAL SAMPLES - Roof

Sample Matrix: Aqueous Org. Liquid Solid Sludge Multi Phase

When will sample be available for sampling? 7/17/98

When is data required by requestor? _____

Estimated quantity Available for Sampling: _____

Waste Stream ID No. (if known): _____ Waste Stream Name (if known): _____

EPA CODES: _____ MSDS: Yes No ATTACHED: Yes No

COMPATIBILITY CODE _____ WFC/IDC: _____

90 Day Area? Yes No Start Date: _____ End Date: _____

ANALYSES REQUESTED

<input type="checkbox"/> Alpha/Beta Screen	<input type="checkbox"/> Total VOA	<input type="checkbox"/> TCLP VOA	<input type="checkbox"/> pH	Other _____
<input type="checkbox"/> Gross Alpha/Beta	<input type="checkbox"/> Total SVOAS	<input type="checkbox"/> TCLP SVOAS	<input type="checkbox"/> Fingerprint	<u>TCLP HG</u>
<input type="checkbox"/> Isotopics	<input type="checkbox"/> Total Metals (ICP)	<input checked="" type="checkbox"/> TCLP Metals	<input type="checkbox"/> IR	
<input type="checkbox"/> g/l Isotopics	<input type="checkbox"/> Total PCBs	<input type="checkbox"/> TCLP PCBs	Analyses Criticality Sensitive? <input type="radio"/> Yes <input checked="" type="radio"/> No	
<input type="checkbox"/> Gamma Spec	<input type="checkbox"/> Total Herbicides	<input type="checkbox"/> TCLP Herbicides	If Yes: <input type="radio"/> Single Analyses: _____ <input type="radio"/> Double _____	

RADIOLOGICAL ENTRY REQUIREMENTS

IS THIS A RADIOACTIVE WASTE STREAM? Suspected to be radioactive? Yes No

Pu Am U Other _____

Located In RBA RMA RMMA CA HCA RA HRA Other Area _____

RCT Support: Yes No Comments: _____

RWP Required: Yes No

PWRE Required: Yes No

GENERAL ENTRY REQUIREMENTS/SAFETY CONCERNS

<input type="checkbox"/> Plan of the Day	<input type="checkbox"/> Industrial Hygiene Assistance	<input type="checkbox"/> Electrical
<input type="checkbox"/> Maintenance Assistance	<input type="checkbox"/> Carcinogen Control Area	<input type="checkbox"/> IWCP
<input type="checkbox"/> Operator's Assistance	<input type="checkbox"/> Lock-out/Tag-out	<input type="checkbox"/> Confined Space
<input type="checkbox"/> Mechanical	<input type="checkbox"/> Waste Contains Fluorides	Other _____

Special Instructions _____

Non-Radiological Closeout Report
for Building 779
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Requestor Signature: _____

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

COC.# **99A55211001**
 Page 1 of 1

RMRS

Telephone No. **415** FAX
 Contract/Exposure MEIN
 After Background Purchase Order/Charge Code
 Sampling Origin **KY51A00**
 Bldg # **779** Temp.
 Logbook No. Bill of Lading/Air Bill No.
 Method of Shipment Omaha Property No. Yes No
 Project Title **Building 559 Laboratory** Total Activity Exemption. Yes No
 To (Lab) **Building 559 Laboratory** Hold Time

ESPECIAL INSTRUCTIONS

POSSIBLE SAMPLE HAZARD/REMARKS

Bech No.	Customer Number	Matrix	Date	Time	Location	Xo Type Container	Sample Analysis	Remediation / Public																				
99A5527-001.001		SOLID	1/25/99	0900	Bldg 779	EG PIG	RS05A048 (Mils SW848) (Rush) PRIORITY 11/2/99	None																				
99A5527-002.001		SOLID	1/25/99	0130		EG PIG	RS05A048 (Mils SW848) (Rush) PRIORITY 11/2/99	None																				
<i>Handwritten signature and date: 1/25/99</i>																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Date/Time</td> </tr> <tr> <td>1/25/99 0130</td> <td>1/25/99 0130</td> <td>1/25/99 1350</td> <td></td> <td></td> </tr> <tr> <td>Received By:</td> <td>Received By:</td> <td>Received By:</td> <td>Received By:</td> <td>Received By:</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>									Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	1/25/99 0130	1/25/99 0130	1/25/99 1350			Received By:									
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Date/Time	Date/Time	Date/Time	Date/Time	Date/Time																								
Received By:	Received By:	Received By:	Received By:	Received By:																								

Disposed Method (e.g., Return to contractor, per job procedures, used in process) _____
 Disposed By: _____
FINAL SAMPLE DISPOSITION
 Disposed By: _____

Paint from 779 B Small Cages

MRS

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

99A4089#001

Contact/Requester: M Schlutschew
 SCHLUTSCHESCHMIDT
 Sampling Origin: B 752
 Logbook No.:
 Method of Shipment: Hand carried
 Temp.:
 Bill of Lading/Air Bill No.:
 Contact Property No.:

Page # of #

PAX 4308

HAZARDS/REMARKS

SPECIAL INSTRUCTIONS: Hand Carried
 ANALYZE TOTAL METALS FIRST TO DETERMINE IF TCLP METALS ADD REQUIRED. Yes No

Sample No.	Customer Number	Matrix	Date	Time	Location	No./Type Container	Sample Analysis	Preservative / Packaging
9A4089-01.001	782-97610 08-m5-01	Solid	2/18/98	11:00	B 752 Box 140	5-G G	PA03A016 (Mercury) [Priority]; RS05A022 (Mits Unfilt SW846 w/o Hg) [Priority]	None 4 degrees C
9A4089-01.002	11	11	11	11	11	25-G G	PA03A016 (Mercury) [Priority]; RS08A006 (TCLP Metals) [Priority]	None 4 degrees C

Received By	Date/Time	Received By	Date/Time
<u>Lab</u>	<u>12/14/98 14:55</u>	<u>Lab</u>	<u>12/14/98 14:55</u>
<u>Lab</u>	<u>12/14/98 14:55</u>	<u>Lab</u>	<u>12/14/98 14:55</u>
<u>Lab</u>	<u>12/14/98 14:55</u>	<u>Lab</u>	<u>12/14/98 14:55</u>

Non-Radiological Closeout Report
 for Building 779
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FINAL SAMPLE DISPOSITION: Disposed By
 Disposal Method (e.g. Return to customer, per lab procedure, used in process)

SIN # MTL501-A2 REPORT

COVER PAGE

INORGANIC ANALYSES DATA PACKAGE

Lab Name: Building 650 PA Inorganic Laboratories SOW No.. 7/93
 Section: ICPAES
 QC Report Number: SD052398.RPT SDG No.. MAY23

Lab Sample ID's beginning with 'X' are TCLP Extracts.

*Revised
TCLP Metals*

Sample No.	APO Sample I. D.	Lab Sample ID
1	X-98A2065-001	Bldg 779 Solid Phase Sample
2	X-98A2065-001D	Bldg 779 Solid Phase Sample Lab Duplicate
3	X-98A2065-002	Bldg 779 Solid Phase Sample
4	X-98A2065-003	Bldg 779 Solid Phase Sample
5	X-98A2065-004	Bldg 779 Solid Phase Sample
6	X-98A2065-005	Bldg 779 Solid Phase Sample
7	X-98A2065-006	Bldg 779 Solid Phase Sample
8	X-98A2065-006	Bldg 779 Solid Phase Sample
9	X-98A2065-009	Bldg 779 Solid Phase Sample
10	X-98A2065-010	Bldg 779 Solid Phase Sample
11	X-98A2065-011	Bldg 779 Solid Phase Sample
12	X-98A2065-012	Bldg 779 Solid Phase Sample
13	X-98A2065-014	Bldg 779 Solid Phase Sample
14	X-98A2065-015	Bldg 779 Solid Phase Sample
15	X-TCLP EX-01	TCLP Extracts Solid Phase Blank
16	EPA QC #21 STD	EPA QC #21 STD Laboratory Control Standard
17	EPA QC #7A STD	EPA QC #7A STD Laboratory Control Standard

Were ICP Inter-element Corrections applied? Yes/No Y

Were ICP Background Corrections applied? No Y

I have reviewed the following data for the Sample No.'s listed above

Signature: R. Kelly
 Date: 6/5/98 Title: Analytical Chemist

Signature: Yvonne B. Mazza
 Date: June 16, 1998 Title: Reviewer

Comments

FAXED
1-1-98 APO

FAXED

SIN # MTL501-A2 REPORT

COVER PAGE

INORGANIC ANALYSES DATA PACKAGE

Lab Name: Building 559 PA Inorganic Laboratories

SOW No. 7/93

Section: ICPAES

QC Report Number: SD062698.RPT

SDG No.: MAY25



Lab Sample ID's beginning with 'X' are TCLP Extracts.

TCLP Metals

Sample No.	APD Sample I. D.	Lab Sample ID.
1	X-98A2089-007	Bldg 779 Solid Paint Sample
2	X-98A2089-017	Bldg 779 Solid Paint Sample
3	X-98A2089-017-D	Bldg 779 Solid Paint Sample Lab Duplicate
4	X-98A2089-029	Bldg 779 Solid Paint Sample
5	X-98A2089-051	Bldg 779 Solid Paint Sample
6	X-98A2089-002	Bldg 779 Solid Paint Sample
7	X-98A2089-033	Bldg 779 Solid Paint Sample
8	X-98A2089-034	Bldg 779 Solid Paint Sample
9	X-98A2089-036	Bldg 779 Solid Paint Sample
10	X-98A2089-039	Bldg 779 Solid Paint Sample
11	X-98A2089-040	Bldg 779 Solid Paint Sample
12	X-98A2089-042	Bldg 779 Solid Paint Sample
13	X-98A2089-043	Bldg 779 Solid Paint Sample
14	X-98A2089-044	Bldg 779 Solid Paint Sample
15	X-TCLP EXTRACT	Blank
16	EPA0087A STD	EPA0087A National Laboratory Control Standard
17	EPA0087A STD	EPA0087A National Laboratory Control Standard

Were ICP Inter-element Corrections applied?

Yes/No Y

Were ICP Background Corrections applied?

Yes/No Y

I have reviewed the following data for the Sample No.'s listed above.

Signature:

RC. Kelly

Date:

6/11/98

Title: Analytical Chemist

Signature:

Date:

Title: Reviewer

Comments:

FAXED

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No.: 1

Lab Sample ID: X-98A2065-001 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample IDs beginning with 'X' indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY23

Lab Receipt Date: 5/13/98 QC Report No.: SD052398.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	M
Aluminum	1.8824	B	P
Antimony	0.3000	U	P
Arsenic	0.3000	U	P
Barium	0.1600	U	P
Beryllium	0.0150	U	P
Cadmium	0.0000	U	P
Calcium	612.3961	B	P
Chromium	10.1500	U	P
Cobalt	0.2500	B	P
Copper	0.3000	U	P
Iron	0.8000	U	P
Lead	21648	B	P
Magnesium	20.8813	B	P
Manganese	0.4314	B	P
Molybdenum	0.1500	U	P
Nickel	0.1000	U	P
Phosphorus	3.3600	B	P
Selenium	0.3600	U	P
Silver	0.0000	U	P
Strontium	2.0952	B	P
Thallium	0.6878	B	P
Titanium	0.0000	U	P
Vanadium	0.2400	U	P
Zinc	5.0601	B	P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100% solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No. 2

Lab Sample ID: X-98A2085-001 D Bldg 779 Solid Paint Sample Lab Duplicate

Section: ICPAES Lab Sample LD.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY23

Lab Receipt Date: 5/13/98 QC Report No.: SD052398.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	2.3282	B		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1600	U		P
Beryllium	0.0160	U		P
Cadmium	0.0000	U		P
Calcium	199.3578	B		P
Chromium	0.1600	U		P
Cobalt	0.2381	B		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.1274	B		P
Magnesium	16.0210	B		P
Manganese	0.3624	B		P
Molybdenum	0.1600	U		P
Nickel	0.1600	U		P
Phosphorus	2.2614	B		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	0.6085	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	3.8288	B		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No 3

Lab Sample ID: X-98A2085-002 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY23

Lab Receipt Date: 5/13/98 QC Report No.: SD062398.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

Analyte	Concentration	C	N	V	E	O	S	M
Aluminum	0.9000	U						P
Antimony	0.3000	U						P
Arsenic	0.3000	U						P
Barium	0.1668	B						P
Beryllium	0.0150	U						P
Cadmium	0.0000	U						P
Calcium	71.9915	B						P
Chromium	0.1500	U						P
Cobalt	0.9124	B						P
Copper	0.3000	U						P
Iron	10.3944	B						P
Lead	2.2607	B						P
Magnesium	161388	B						P
Manganese	0.1668	B						P
Molybdenum	0.1500	U						P
Nickel	0.1500	B						P
Phosphorus	13.2777	B						P
Selenium	0.3600	U						P
Silver	0.0900	U						P
Strontium	0.0785	B						P
Thallium	0.3000	U						P
Titanium	0.1422	B						P
Vanadium	0.2400	U						P
Zinc	20.4891	B						P

Color Before: Pink Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh orange solids left on TCLP Filter

Comments: Sample = 100% solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 659 PA Inorganic Laboratories Sample No 4

Lab Sample ID: X-08A2065-003 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample 100.0000

Date Sampled: 5/13/98 SDG No. MAY23

Lab Receipt Date: 5/13/98 QC Report No.: SD052398.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1800	B		P
Beryllium	0.0150	U		P
Cadmium	0.0600	U		P
Calcium	143.2200	B		P
Chromium	0.1500	U		P
Cobalt	0.0200	B		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.3114	B		P
Magnesium	4.2284	B		P
Manganese	0.2833	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	7.1619	B		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	0.1260	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	6.0285	B		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh white solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

Non-Radiological Closeout Report
 for Building 779
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INORGANIC ANALYSIS DATA SHEET

Lab Name **Building 559 PA Inorganic Laboratories** Sample No. **5**

Lab Sample ID **X-98A2065-004** Bldg 779 Solid Paint Sample

Section **ICPAES** Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample : **100.0000**

Date Sampled **5/13/98** SDG No. : **MAY23**

Lab Receipt Date **5/13/98** QC Report No.: **SD052398.RPT**

Matrix: Water _____
 Soil _____
 Sludge _____
 Other **X**

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S *

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1500	U		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	430.7596	B		P
Chromium	0.1500	U		P
Cobalt	0.2739	B		P
Copper	0.3000	U		P
Iron	0.0000	U		P
Lead	0.3093	B		P
Magnesium	4.3298	B		P
Manganese	0.2678	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	10.9200	B		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	0.4191	B		P
Thallium	0.3000	U		P
Titanium	1.5888	B		P
Vanadium	0.2400	U		P
Zinc	15.1728	B		P

Color Before: **White** Clarity Before: **Cloudy**

Color After: **Colorless** Clarity After: **Clear**

Texture

Artifacts **Fine mesh white solids left on TCLP Filter**

Comments **Sample = 100% solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.**

Non-Radiological Closeout Report
 for Building-779
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INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 659 PA Inorganic Laboratories Sample No. 6

Lab Sample ID: X-98A2065-005 Bidg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample 100.0000

Date Sampled: 6/13/98 SDG No.: MAY23

Lab Receipt Date: 6/13/98 QC Report No.: SD052398.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	12375	B		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1600	U		P
Beryllium	0.0100	U		P
Calcium	30.0000	U		P
Calcium	37.0344	B		P
Chromium	0.1500	U		P
Cobalt	0.4026	B		P
Copper	0.3000	U		P
Iron	30.0000	U		P
Lead	0.3501	B		P
Magnesium	4.0041	B		P
Manganese	0.3375	B		P
Molybdenum	0.1600	U		P
Nickel	0.1500	U		P
Phosphorus	22.8552	B		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	0.2376	B		P
Thallium	0.3000	U		P
Titanium	0.9008	B		P
Vanadium	0.2400	U		P
Zinc	34.3791	B		P

Color Before: White Clarity Before: Cloudy
 Color After: Colorless Clarity After: Clear

Texture
 Artifacts: Fine mesh yellow solids left on TCLP Filter

Comments: Sample = 100% solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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INORGANIC ANALYSIS DATA SHEET

Lab Name **Building 559 PA Inorganic Laboratories** Sample No. 7

Lab Sample ID. X-98A2065-006 Bldg 779 Solid Paint Sample

Section **ICPAES** Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample 100.0000

Date Sampled: 6/13/98 SDG No.: MAY23

Lab Receipt Date: 6/13/98 QC Report No.: SD052398.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1600	U		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	318.100	B		P
Chromium	0.1000	U		P
Cobalt	0.0000	U		P
Copper	0.3000	U		P
Iron	0.0000	U		P
Lead	0.3192	B		P
Magnesium	0.0111	B		P
Manganese	0.0001	B		P
Molybdenum	0.0100	U		P
Nickel	0.1600	U		P
Phosphorus	23.9280	B		P
Selenium	0.9000	U		P
Silver	0.0900	U		P
Strontium	0.2001	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	37.8735	B		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh white solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 550 PA Inorganic Laboratories Sample No. 1

Lab Sample ID: X-98A2065-007 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample IDs beginning with X indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY25

Lab Receipt Date: 5/13/98 QC Report No.: SD052596.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.0000	U		P
Antimony	0.0000	U		P
Arsenic	0.0000	U		P
Barium	0.1600	U		P
Beryllium	0.0150	U		P
Cadmium	0.0600	U		P
Calcium	2997.147	B		P
Chromium	0.1600	U		P
Cobalt	0.0500	U		P
Copper	0.0000	U		P
Iron	0.6000	U		P
Lead	0.2400	U		P
Magnesium	3.0111	B		P
Manganese	0.2322	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	16.4750	B		P
Selenium	0.0600	U		P
Silver	0.0900	U		P
Strontium	0.1875	B		P
Thallium	0.0000	U		P
Titanium	0.4491	B		P
Vanadium	0.2400	U		P
Zinc	23.1210	B		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh yellow solids left on TCLP Filter.

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 659 PA Inorganic Laboratories Sample No.: 8

Lab Sample ID: X-98A2065-008 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with X* indicates TCLP Extract

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY23

Lab Receipt Date: 5/13/98 QC Report No.: SD052398RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	1.4894	B		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1500	U		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	3722.829	B		P
Chromium	0.1500	U		P
Cobalt	0.4275	B		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.5312	B		P
Magnesium	4.0000	B		P
Manganese	0.2862	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	19.6062	B		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	0.2445	B		P
Thallium	0.3000	U		P
Titanium	1.1873	B		P
Vanadium	0.2400	U		P
Zinc	28.1045	B		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh blue solids left on TCLP Filter.

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, to obtain the TCLP final sample extract.

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 650 PA Inorganic Laboratories Sample No.: 9

Lab Sample ID X-98A2065-009 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample 100.0000

Date Sampled: 5/13/98 SDG No.: MAY23

Lab Receipt Date: 5/13/98 QC Report No.: SD062398.RPT

Matric: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analysis	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1884	B		P
Beryllium	0.0159	U		P
Cadmium	0.0600	U		P
Calcium	526.9284	B		P
Chromium	0.1500	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.3024	B		P
Magnesium	6.8970	B		P
Manganese	0.3587	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	2.8739	B		P
Selenium	0.3000	U		P
Silver	0.0900	U		P
Strontium	0.3240	B		P
Thallium	0.3000	U		P
Titanium	2.7735	B		P
Vanadium	0.2400	U		P
Zinc	2.0754	B		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts Fine mesh white solids left on TCLP Filter

Comments Sample = 100% solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No 10

Lab Sample ID: X-98A2065-010 Bldg 779 Solid Paint Sample

Section ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample 100.0000

Date Sampled: 5/13/98 SDG No.: MAY23

Lab Receipt Date: 5/13/98 QC Report No.: SD052398.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S * +

Analyte	Concentration	Q	M
Aluminum	1.2690	B	P
Antimony	0.2000	U	P
Arsenic	0.2000	U	P
Barium	0.1509	B	P
Beryllium	0.0150	U	P
Cadmium	0.0800	U	P
Calcium	297.5400	B	P
Chromium	0.1500	U	P
Cobalt	0.1908	B	P
Copper	0.2000	U	P
Iron	200.00	B	P
Lead	0.2627	B	P
Magnesium	30.440	B	P
Manganese	0.2979	B	P
Molybdenum	0.1500	U	P
Nickel	0.1500	U	P
Phosphorus	2.9499	B	P
Selenium	0.4578	B	P
Silver	0.0900	U	P
Strontium	0.2484	B	P
Thallium	0.3000	U	P
Titanium	0.5985	B	P
Vanadium	0.2400	U	P
Zinc	2.7728	B	P

Color Before White Clarity Before Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts Fine mesh yellow solids left on TCLP Filter

Comments Sample 100% solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No. 11

Lab Sample ID: X-98A2065-011 Bldg 779 Solid Paint Sample

Section ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample 100.0000

Date Sampled: 5/13/98 SDG No.: MAY23

Lab Receipt Date: 5/13/98 QC Report No.: SD052398.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1600	U		P
Beryllium	0.0150	U		P
Cadmium	0.0600	U		P
Calcium	7381308	B		P
Chromium	0.1600	U		P
Cobalt	0.6000	B		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	3.3189	B		P
Magnesium	7.6067	B		P
Manganese	0.7035	B		P
Molybdenum	0.1600	U		P
Nickel	0.1600	U		P
Phosphorus	5.7267	B		P
Selenium	0.3933	B		P
Silver	0.0900	U		P
Strontium	1.4849	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	7.3560	B		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh white solids left on TCLP Filter

Comments: Sample = 100% solids Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No. 12

Lab Sample ID: X-98A2065-012 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with X' indicates TCLP Extract

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY23

Lab Receipt Date: 5/13/98 QC Report No.: SD052398.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	3.0408	B		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1500	U		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	322.4313	B		P
Chromium	0.1500	U		P
Cobalt	3.4104	B		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	10.2400	U		P
Magnesium	17.2047	B		P
Manganese	1.2917	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	2.6350	B		P
Selenium	0.3000	U		P
Silver	0.0900	U		P
Sirconium	2.2371	B		P
Thallium	0.3000	U		P
Titanium	0.0900	U		P
Vanadium	0.2400	U		P
Zinc	1.2807	B		P

Color Before: Colorless Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh gray solids left on TCLP Filter

Comments: Sample = 100 % solids Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No.: 1

Lab Sample ID: X-98A2065-013 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 6/13/98 SDG No.: MAY20

Lab Receipt Date: 6/13/98 QC Report No.: SD052098.RPT

Matrix: Water
 Soil
 Sludge
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analysis	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.2000	U		P
Barium	0.2882	B		P
Beryllium	0.0150	U		P
Calcium	0.0000	U		P
Calcium	784.9932	B		P
Chromium	0.1600	U		P
Cobalt	0.1600	U		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.3012	B		P
Magnesium	0.4527	B		P
Manganese	0.0711	B		P
Molybdenum	0.1600	U		P
Nickel	0.2782	B		P
Phosphorus	1.6000	U		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	1.0684	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100% solids Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No.: 2

Lab Sample ID: X-98A2065-013 D Bldg 779 Solid Paint Sample Lab Duplicate

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample : 100.0000

Date Sampled: 5/13/98 SDG No.: MAY20

Lab Receipt Date: 5/13/98 QC Report No.: SD052098.RPT.

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.2165	B		P
Beryllium	0.0150	U		P
Cadmium	0.0500	U		P
Calcium	666.6666	B		P
Chromium	0.1500	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.0000	U		P
Lead	0.4165	B		P
Magnesium	77421	B		P
Manganese	0.0300	U		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	1.5000	U		P
Selenium	0.3000	U		P
Silver	0.0000	U		P
Strontium	0.9918	B		P
Thallium	0.3000	U		P
Titanium	0.0000	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No. 13

Lab Sample ID: X-98A2065-014 Bldg 779 Solid Paint Sample

Section ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract

% Solids for Sample 100.0000

Date Sampled: 6/13/98 SDG No.: MAY23

Lab Receipt Date: 6/13/98 QC Report No.: SD052396.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1500	U		P
Beryllium	0.0160	U		P
Cadmium	0.0000	U		P
Calcium	738.1106	B		P
Chromium	0.0160	U		P
Cobalt	0.2816	B		P
Copper	0.0000	U		P
Iron	0.6000	U		P
Lead	0.2005	B		P
Magnesium	280.3304	B		P
Manganese	0.0251	B		P
Molybdenum	0.1000	U		P
Nickel	0.6761	B		P
Phosphorus	1.5000	U		P
Selenium	0.3600	U		P
Silver	0.0000	U		P
Strontium	1.3734	B		P
Thallium	0.3000	U		P
Titanium	0.1268	B		P
Vanadium	0.2400	U		P
Zinc	0.3594	B		P

Color Before: Orange Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh orange solids left on TCLP Filter

Comments: Sample = 100% solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories Sample No. 14

Lab Sample ID X-98A2085-015 Bldg 779 Solid Paint Sample

Section ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract

% Solids for Sample 100.0000

Date Sampled. 5/13/98 SDG No. MAY23

Lab Receipt Date. 5/13/98 QC Report No.: SD052398.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1500	U		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	1354.0787	B		P
Chromium	0.1500	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.2648	B		P
Magnesium	68.1889	B		P
Manganese	0.0300	U		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	1.5000	U		P
Selenium	0.3000	U		P
Silver	0.0900	U		P
Strontium	6.5487	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.9000	U		P

Color Before White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts Fine mesh white solids left on TCLP Filter

Comments Sample = 100% solids Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

Non-Radiological Closeout Report
 for Building 779
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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories Sample No.: 3

Lab Sample ID X-88A2065-010 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample IDs beginning with X indicates TCLP Extract

% Solids for Sample: 100.0000

Date Sampled: 6/13/98 SDG No. MAY20

Lab Receipt Date: 5/13/98 QC Report No.: SD052088.RPT.

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.8000	U		P
Antimony	0.3000	U		P
Arsenic	0.5000	U		P
Barium	0.2202	B		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	7.619005	B		P
Chromium	0.01600	U		P
Cobalt	0.01500	U		P
Copper	0.05000	U		P
Iron	0.00000	U		P
Lead	0.04300	B		P
Magnesium	0.02200	B		P
Manganese	0.03000	U		P
Molybdenum	0.15000	U		P
Nickel	0.1500	U		P
Phosphorus	1.5000	U		P
Selenium	0.3500	U		P
Silver	0.0900	U		P
Strontium	0.9084	B		P
Thallium	0.5000	U		P
Titanium	0.0800	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: Yellow Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh yellow solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 659 PA Inorganic Laboratories Sample No.: 2

Lab Sample ID: X-98A2065-017 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample LD.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample : 100.0000

Date Sampled: 5/13/98 SDG No.: MAY25

Lab Receipt Date: 5/13/98 QC Report No.: SD052598.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.0000	U		P
Antimony	0.0000	B		P
Arsenic	0.0000	U		P
Barium	0.1000	U		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	0.0000	U		P
Chromium	0.0000	U		P
Cobalt	0.0000	U		P
Copper	0.0000	U		P
Iron	0.0000	U		P
Lead	0.0000	U		P
Magnesium	0.0000	U		P
Manganese	0.0000	U		P
Molybdenum	0.0150	U		P
Nickel	0.1500	U		P
Phosphorus	1.5000	U		P
Selenium	0.3000	U		P
Silver	0.0000	U		P
Strontium	4.8177	B		P
Thallium	0.3000	U		P
Titanium	0.0500	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh yellow solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No. 3
 Lab Sample ID: X-98A2065-017 D Bldg 779 Solid Paint Sample Lab Duplicate
 Section: ICPAES Lab Sample I.D.s beginning with X* indicates TCLP Extract.
 % Solids for Sample: 100.0000
 Date Sampled: 5/13/98 SDG No.: MAY25
 Lab Receipt Date: 5/13/98 QC Report No.: SD052598.RPT
 Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

Analyte	Concentration	C	N	V	E	O	S	+	M
Aluminum	0.9000	U							P
Antimony	0.5000	U							P
Arsenic	0.3000	U							P
Barium	0.1800	U							P
Beryllium	0.0160	U							P
Calcium	0.0600	U							P
Cadmium	758.2783	B							P
Chromium	0.1600	U							P
Cobalt	0.1800	B							P
Copper	0.3000	U							P
Iron	0.6000	U							P
Lead	0.2400	U							P
Magnesium	148.6483	B							P
Manganese	0.3300	B							P
Molybdenum	0.1600	U							P
Nickel	0.1600	U							P
Phosphorus	1.5000	U							P
Selenium	0.3000	U							P
Silver	0.0900	U							P
Strontium	2.1581	B							P
Thallium	0.3000	U							P
Titanium	0.0600	U							P
Vanadium	0.2400	U							P
Zinc	1.4304	B							P

Color Before: White Clarity Before: Cloudy
 Color After: Colorless Clarity After: Clear
 Texture:
 Artifacts: Fine mesh yellow solids left on TCLP Filter

Comments: Sample 100% solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name **Building 559 PA Inorganic Laboratories** Sample No.: **4**

Lab Sample ID: **X-98A2065-018** Bldg 779 Solid Paint Sample

Section: **ICPAES** Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample : **100.0000**

Date Sampled: **6/13/98** SDG No. : **MAY20**

Lab Receipt Date: **6/13/98** QC Report No.: **SD052098.RPT**

Matrix: Water
 Soil
 Sludge
 Other

Elements Identified and Measured

Concentration Units: **mg/L** N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1500	U		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	620.1058	B		P
Chromium	0.1500	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.4881	B		P
Magnesium	0.6000	U		P
Manganese	0.0300	U		P
Nickel	0.1500	U		P
Phosphorus	1.5000	U		P
Selenium	0.3000	U		P
Silver	0.0900	U		P
Strontium	0.9408	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: **Brown** Clarity Before: **Cloudy**

Color After: **Colorless** Clarity After: **Clear**

Texture

Artifacts: **Fine mesh brown solids left on TCLP Filter**

Comments: **Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter was performed to obtain the TCLP final sample extract.**

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No. 5

Lab Sample ID: X-88A2085-019 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with X indicates TCLP Extract.

% Solids for Sample : 100.0000

Date Sampled: 6/13/98 SDG No. MAY20

Lab Receipt Date: 6/13/98 QG Report No.: SD052088.RPT.

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.8000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1696	B		P
Bismuth	0.0160	U		P
Cadmium	0.0000	U		P
Calcium	708.0068	B		P
Chromium	0.1600	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.8177	B		P
Magnesium	6.2282	B		P
Manganese	0.0300	U		P
Molybdenum	0.1600	U		P
Nickel	0.1500	U		P
Phosphorus	1.6000	U		P
Selenium	0.3600	U		P
Silver	0.0500	U		P
Strontium	0.8277	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: Blue Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh blue solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 659 PA Inorganic Laboratories Sample No.: 6

Lab Sample ID. X-98A2085-020 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample 100.0000

Date Sampled: 5/13/98 SDG No.: MAY20

Lab Receipt Date: 5/13/98 QC Report No.: SD052088.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1885	B		P
Beryllium	0.0150	U		P
Cadmium	0.0600	U		P
Calcium	796.1178	B		P
Cesium	0.1500	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.4821	B		P
Magnesium	0.8000	U		P
Manganese	0.0300	U		P
Molybdenum	0.1600	U		P
Nickel	0.1500	U		P
Phosphorus	1.6000	U		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	1.0784	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No.: 7

Lab Sample ID: X-98A2065-021 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample IDs beginning with 'X' indicates TCLP Extract

% Solids for Sample: 100.0000

Date Sampled: 6/13/98 SDG No.: MAY20

Lab Receipt Date: 6/13/98 QC Report No.: SD052098.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.5301	B		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1628	B		P
Beryllium	0.0150	U		P
Cadmium	0.0600	U		P
Calcium	869.7762	B		P
Chromium	0.1600	U		P
Cobalt	0.1600	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.5004	B		P
Magnesium	0.6000	U		P
Manganese	0.0579	B		P
Molybdenum	0.1600	U		P
Nickel	0.1500	U		P
Phosphorus	1.5000	U		P
Selenium	0.3600	U		P
Silver	0.0000	U		P
Strontium	1.1919	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh white solids left on TCLP Filter

Comments: Sample = 100 % solids Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 659 PA Inorganic Laboratories Sample No. 8

Lab Sample ID: X-88A2065-022 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample IDs beginning with X* indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY20

Lab Receipt Date: 5/13/98 QC Report No.: SD052098.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1500	U		P
Beryllium	0.0150	U*		P
Cadmium	0.0600	U		P
Calcium	822.3384	B		P
Chromium	0.1500	U		P
Cobalt	0.1000	U		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.4781	B		P
Magnesium	0.6172	B		P
Manganese	0.0300	U		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	1.6000	U		P
Selenium	0.3000	U		P
Silver	0.0300	U		P
Strontium	1.1081	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: White Clarity Before: Cloudy

Color After: Yellow Clarity After: Clear

Texture

Artifacts: Fine mesh white solids left on TCLP Filter

Comments: Sample = 100 % solids Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No.: 4

Lab Sample ID: X-98A2065-023 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY25

Lab Receipt Date: 5/13/98 QC Report No.: SD052596.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.4173	B		P
Arsenic	0.2000	U		P
Barium	0.1719	B		P
Beryllium	0.0160	U		P
Cadmium	0.1867	B		P
Calcium	231.2457	B		P
Chromium	19.7698			P
Cobalt	0.5208	B		P
Copper	0.3000	U		P
Iron	33.6013	B		P
Lead	3.5550	B		P
Magnesium	2.6167	B		P
Manganese	0.4310	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	32.0349	B		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	0.2319	B		P
Thallium	0.3000	U		P
Titanium	0.0900	U		P
Vanadium	0.2400	U		P
Zinc	64.6327	B		P

Color Before: Orange Clarity Before: Cloudy

Color After: Orange Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 659 PA Inorganic Laboratories Sample No.: 9

Lab Sample ID: X-98A2065-024 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample : 100 0000

Date Sampled: 5/13/98 SDG No.: MAY20

Lab Receipt Date: 5/13/98 QC Report No.: SB052098.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.0000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Boron	0.3600	B		P
Beryllium	0.0160	U		P
Cadmium	0.0600	U		P
Calcium	743.0427	B		P
Chromium	0.1500	U		P
Cobalt	0.1600	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.6600	B		P
Magnesium	24.8946	B		P
Manganese	0.2283	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	1.6000	U		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	0.6322	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.9069	B		P

Color Before: Brown Clarity Before: Cloudy

Color After: Yellow Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No.: 10

Lab Sample ID: X-98A2065-025 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY20

Lab Receipt Date: 5/13/98 QC Report No.: SD052098.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	1.0233	B		P
Antimony	0.3000	U		P
Arsenic	0.2000	U		P
Barium	0.2709	B		P
Beryllium	0.0150	U		P
Cadmium	0.0600	U		P
Calcium	743.9100	B		P
Chromium	0.1500	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.5018	B		P
Magnesium	17.8696	B		P
Manganese	0.2031	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	1.5000	U		P
Selenium	0.3000	U		P
Silver	0.0900	U		P
Strontium	0.5481	B		P
Thallium	0.3000	U		P
Titanium	0.1551	B		P
Vanadium	0.2400	U		P
Zinc	1.2618	B		P

Color Before: Brown Clarity Before: Cloudy

Color After: Yellow Clarity After: Clear

Texture:

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was used to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 659 PA Inorganic Laboratories Sample No. 11

Lab Sample ID: X-98A2065-026 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY20

Lab Receipt Date: 5/13/98 QC Report No.: SD052098.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.4197	B		P
Beryllium	0.0150	U		P
Cadmium	0.0500	U		P
Calcium	654.5864	B		P
Chromium	0.1500	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.4858	B		P
Magnesium	7.2820	B		P
Manganese	0.1935	B		P
Molybdenum	0.1000	U		P
Nickel	0.1500	U		P
Phosphorus	1.5000	U		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	1.2608	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories Sample No : 12

Lab Sample ID X-98A2065-027 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample : 100.0000

Date Sampled: 5/13/98 SDG No. : MAY20

Lab Receipt Date: 5/13/98 QC Report No.: SD052096.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N Y * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	4.9887	B		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1500	U		P
Beryllium	0.0100	U		P
Cadmium	0.0600	U		P
Calcium	434.8854	B		P
Chromium	0.1900	U		P
Cobalt	0.1606	B		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.4311	B		P
Magnesium	6.0842	B		P
Manganese	0.2048	B		P
Molybdenum	0.1600	U		P
Nickel	0.1600	U		P
Phosphorus	4.0487	B		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	2.1884	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	4.3428	B		P

Color Before: Yellow Clarity Before: Cloudy

Color After: Yellow Clarity After: Clear

Texture

Artifacts: Fine mesh yellow solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No.: 13

Lab Sample ID: X-98A2065-028 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY20

Lab Receipt Date: 5/13/98 QC Report No.: SD052096.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analysis	Concentration	C	Q	M
Aluminum	27483	B		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1500	U		P
Beryllium	0.0150	U		P
Cadmium	0.0600	U		P
Calcium	1003.5158	B		P
Chromium	0.1500	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.0900	B		P
Magnesium	212187	B		P
Manganese	0.2834	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	1.5000	U		P
Selenium	0.2500	U		P
Silver	0.0900	U		P
Strontium	2.3068	B		P
Thallium	0.3000	U		P
Thorium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.6184	B		P

Color Before: Brown Clarity Before: Cloudy

Color After: Yellow Clarity After: Clear

Texture:

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No: 14

Lab Sample ID: X-98A2065-029 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/88 SDG No.: MAY20

Lab Receipt Date: 5/13/88 QC Report No.: SD052088.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.4017	B		P
Beryllium	0.0180	U		P
Cadmium	0.0600	U		P
Calcium	694.4994	B		P
Chromium	0.1500	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.4768	B		P
Magnesium	7.0923	B		P
Manganese	0.1887	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	1.5000	U		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	1.3122	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was to obtain the TCLP final sample extract.

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INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories Sample No.: 15

Lab Sample ID: X-98A2065-030 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample IDs beginning with X indicates TCLP Extract

% Solids for Sample . 100.0000

Date Sampled: 5/13/98 SDG No.: MAY20

Lab Receipt Date: 5/13/98 QC Report No.: SD052098.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.8000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Boron	0.1500	U		P
Beryllium	0.0160	U		P
Cadmium	0.0500	U		P
Calcium	484.0419	B		P
Chromium	0.1500	U		P
Cobalt	1.0500	B		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	1.2132	B		P
Magnesium	26.1813	B		P
Manganese	0.8059	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	3.0658	B		P
Selenium	0.3000	U		P
Silver	0.0500	U		P
Strontium	1.1697	B		P
Thallium	0.3000	U		P
Titanium	0.1848	B		P
Vanadium	0.2400	U		P
Zinc	3.4983	B		P

Color Before: Blue Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh blue solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No. 5

Lab Sample ID: X-98A2085-031 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with X indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY25

Lab Receipt Date: 5/13/98 QC Report No.: SD052598.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	2.9536	B		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.3728	B		P
Beryllium	0.0150	U		P
Cadmium	0.0600	U		P
Calcium	142.0000	B		P
Chromium	2.1000	B		P
Cobalt	1.5371	B		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.9438	B		P
Magnesium	3.1600	B		P
Manganese	0.0600	B		P
Molybdenum	0.1800	U		P
Nickel	0.9610	B		P
Phosphorus	28.9704	B		P
Selenium	0.3000	U		P
Silver	0.2150	B		P
Strontium	0.1425	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	29.8029	B		P

Color Before: Pink Clarity Before: Cloudy

Color After: Pink Clarity After: Clear

Texture

Artifacts: Fine mesh pink solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No.: 6

Lab Sample ID: X-98A2065-032 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with X* indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY25

Lab Receipt Date: 5/13/98 QC Report No.: S0052596.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.6989	B		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	558.1329	B		P
Chromium	0.1600	U		P
Cobalt	0.1600	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.2400	U		P
Magnesium	7.0779	B		P
Manganese	0.4181	B		P
Molybdenum	0.1600	U		P
Nickel	0.1500	U		P
Phosphorus	13.6362	B		P
Selenium	0.3600	U		P
Silver	0.2345	B		P
Strontium	1.4829	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	22.2654	B		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No 7

Lab Sample ID: X-98A2005-033 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample LD.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample : 100.0000

Date Sampled: 5/13/98 SDG No. : MAY25

Lab Receipt Date: 5/13/98 QC Report No.: SD052598.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.8816	B		P
Beryllium	0.0150	U		P
Cadmium	0.0600	U		P
Calcium	324.0000	B		P
Chromium	30.1500	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.2400	U		P
Magnesium	4.0929	B		P
Manganese	0.8285	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	30.4481	B		P
Selenium	0.3600	U		P
Silver	0.1762	B		P
Strontium	0.4884	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	62.4913	B		P

Color Before: Brown Clarity Before: Cloudy
 Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was used to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No: 8

Lab Sample ID: X-98A2065-034 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample ID.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample 100.0000

Date Sampled: 5/13/98 SDG No.: MAY25

Lab Receipt Date: 5/12/98 QC Report No.: SD052598.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	2.7000	B		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.2220	B		P
Beryllium	0.0160	U		P
Cadmium	0.0500	U		P
Calcium	633.4500	B		P
Chromium	0.1800	U		P
Cobalt	0.1500	U		P
Copper	10.3000	U		P
Iron	20.6000	U		P
Lead	0.2400	U		P
Magnesium	13.6210	B		P
Manganese	0.1503	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	1.0000	U		P
Selenium	0.3600	U		P
Silver	0.1284	B		P
Strontium	1.0583	B		P
Thallium	0.3000	U		P
Titanium	0.0500	U		P
Vanadium	0.2400	U		P
Zinc	0.9060	B		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 659 PA Inorganic Laboratories Sample No. 6

Lab Sample ID X-TCLP EXT #1 TCLP Extraction Fluid Reagent Blank

Section ICPAES Lab Sample LD.s beginning with X indicates TCLP Extract.

% Solids for Sample : < 0.5000

Date Sampled 6/8/98 SDG No. : MAY26

Lab Receipt Date: 6/8/98 QC Report No.: SD052698.RPT

Matrix: Water X
Soil _____
Sludge _____
Other _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S *

Analyte	Concentration	G	Q	M
Aluminum	0.2000	U		P
Antimony	0.1000	U		P
Arsenic	0.1000	U		P
Barium	0.0500	U		P
Beryllium	0.0050	U		P
Cadmium	0.0200	U		P
Calcium	0.2000	U		P
Chromium	0.0500	U		P
Cobalt	0.0500	U		P
Copper	0.1000	U		P
Iron	0.2000	U		P
Lead	0.0800	U		P
Magnesium	0.2000	U		P
Manganese	0.0100	U		P
Molybdenum	0.0500	U		P
Nickel	0.0500	U		P
Phosphorus	0.5000	U		P
Selenium	0.1200	U		P
Silver	0.0300	U		P
Srionium	0.0100	U		P
Thallium	0.1000	U		P
Titanium	0.0200	U		P
Vanadium	0.0800	U		P
Zinc	0.1000	U		P

Color Before. Colorless Clarity Before. Clear

Color After Colorless Clarity After Clear

Texture

Artifacts Nothing left on TCLP Filter

Comments Sample < 0.50 % solids. Therefore, the filtered sample is taken to be the final TCLP extract. Pressure filtration of the initial sample through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain TCLP filtered sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 669 PA Inorganic Laboratories SAMPLE NO. 7
 Lab Sample ID: EPA QC-21 Standard
 Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.
 % Solids (0 - N/A): 0.0000
 Date Sampled: 6/9/98 SDG No.: MAY26
 Lab Receipt Date: 6/9/98 QC Report No.: SD052698.RPT
 Matrix: Water Soil Sludge Other

Elements Identified and Measured

Concentration Units: (mg/L)

Analyte	Concentration	C	Q	M
Aluminum				P
Antimony	3.9297	B		P
Arsenic	4.0180	B		P
Boron				P
Beryllium	3.9655	B		P
Cadmium	4.2232			P
Calcium	4.6558	B		P
Chromium	4.2908	B		P
Cobalt	4.1820	B		P
Copper	3.6977	B		P
Iron	3.9019	B		P
Lead	4.2028	B		P
Magnesium	4.1032	B		P
Manganese	3.9144	B		P
Molybdenum	4.1943	B		P
Nickel	3.6667	B		P
Phosphorus				P
Selenium	4.1329			P
Silver				P
Strontium	4.3178	B		P
Thallium	4.0982	B		P
Titanium	3.6017	B		P
Vanadium	4.2908	B		P
Zinc	4.2105	B		P

Color Before: Clarity Before: Texture
 Color After: Clarity After:

Artifacts:

Comments: Sample = 0.00 % Solids. Total Metals Digestion only!
 EPA QC-21 Trace Metals Aqueous Reference Standard
 (External Control Standard).

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories SAMPLE NO. 8
 Lab Sample ID EPA QC-7A Standard
 Section: ICPAES Lab Sample ID s beginning with X indicates TCLP Extract.
 % Solids (0 - N/A): 0.0000
 Date Sampled: 6/9/98 SDG No.: MAY28
 Lab Receipt Date: 6/9/98 QC Report No.: SD062698.RPT
 Matrix: Water X Soil _____ Sludge _____ Other _____

Elements Identified and Measured

Concentration Units: (mg/L)

Analyte	Concentration	C	Q	M
Aluminum	3.7223	B		P
Antimony				P
Arsenic				P
Barium	4.0634	B		P
Beryllium				P
Cadmium				P
Calcium				P
Chromium				P
Cobalt				P
Copper				P
Iron				P
Lead				P
Magnesium				P
Manganese				P
Molybdenum				P
Nickel				P
Phosphorus				P
Selenium				P
Silver	1.7909	B		P
Strontium				P
Thallium				P
Titanium				P
Vanadium				P
Zinc				P

Color Before _____ Clarity Before _____ Texture _____
 Color After _____ Clarity After _____

Artifacts _____

Comments  Sample = 0.00 % Solids. Total Metals Digestion only!
 EPA QC-7A Trace Metals Aqueous Reference Standard
 (External Control Standard)

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 659 PA Inorganic Laboratories Sample No. 15
 Lab Sample ID: X-TCLP EXT #1 TCLP Extraction Fluid Reagent Blank
 Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract
 % Solids for Sample < 0.5000
 Date Sampled: 6/3/98 SDG No.: MAY25
 Lab Receipt Date: 6/3/98 QC Report No.: SD052506.RPT
 Matrix: Water
 Soil
 Sludge
 Other

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.3000	U		P
Antimony	0.1000	U		P
Arsenic	0.1000	U		P
Barium	0.0500	U		P
Beryllium	0.0050	U		P
Cadmium	0.0200	U		P
Calcium	0.2000	U		P
Chromium	0.0500	U		P
Cobalt	0.0500	U		P
Copper	0.1000	U		P
Iron	0.2000	U		P
Lead	0.0500	U		P
Magnesium	0.2000	U		P
Manganese	0.0100	U		P
Molybdenum	0.0500	U		P
Nickel	0.0500	U		P
Phosphorus	0.5000	U		P
Selenium	0.1200	U		P
Silver	0.0300	U		P
Strontium	0.0100	U		P
Thallium	0.1000	U		P
Titanium	0.0200	U		P
Vanadium	0.0500	U		P
Zinc	0.1000	U		P

Color Before: Colorless Clarity Before: Clear
 Color After: Colorless Clarity After: Clear
 Texture
 Artifacts: Nothing left on TCLP Filter

Comments: Sample < 0.50 % solids. Therefore, the filtered sample is taken to be the final TCLP extract. Pressure filtration of the initial sample through a standard TCLP pressure filter containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain TCLP filtered sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories SAMPLE NO. 16
 Lab Sample ID: EPA QC-21 Standard
 Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.
 % Solids (0 - N/A): 0.0000
 Date Sampled: 6/9/98 SDG No.: MAY26
 Lab Receipt Date: 6/9/98 QC Report No.: 8D052598.RPT
 Matrix: Water Soil Sludge Other

Elements Identified and Measured

Concentration Units: (mg/L)

Analyte	Concentration	C	Q	M
Aluminum				P
Antimony	4.0113	B		P
Arsenic	4.0375	B		P
Barium				P
Beryllium	3.8868	B		P
Cadmium	4.2810			P
Calcium	3.7062	B		P
Chromium	4.2479	B		P
Cobalt	3.9222	B		P
Copper	3.7419	B		P
Iron	3.9389	B		P
Lead	4.2284	B		P
Magnesium	4.0537	B		P
Manganese	4.0069	B		P
Molybdenum	4.2138	B		P
Nickel	4.0008	B		P
Phosphorus				P
Selenium	3.9658			P
Silver				P
Strontium	4.2908	B		P
Thallium	3.9874	B		P
Titanium	3.9238	B		P
Vanadium	4.2003	B		P
Zinc	4.2171	B		P

Color Before: _____ Clarity Before: _____ Texture: _____
 Color After: _____ Clarity After: _____

Artifacts _____

Comments: Sample = 0.00 % Solids. Total Metals Digestion only!
 EPA QC-21 Trace Metals Aqueous Reference Standard
 (External Control Standard).

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 658 PA Inorganic Laboratories SAMPLE NO. 17
 Lab Sample ID: EPA QC-7A Standard
 Section: ICPAES Lab Sample LD.s beginning with X indicates TCLP Extract.
 % Solids (0 - N/A): 0.0000
 Date Sampled: 6/9/98 SDG No.: MAY25
 Lab Receipt Date: 6/9/98 QC Report No.: SD052596.RPT
 Matrix: Water Soil Sludge Other

Elements Identified and Measured

Concentration Units: (mg/L)

Analyte	Concentration	C	Q	M
Aluminum	3.9168	B		P
Antimony				P
Arsenic				P
Barium	4.1443	B		P
Beryllium				P
Cadmium				P
Calcium				P
Chromium				P
Cobalt				P
Copper				P
Iron				P
Lead				P
Magnesium				P
Manganese				P
Molybdenum				P
Nickel				P
Phosphorus				P
Selenium				P
Silver	1.9399	B		P
Strontium				P
Thallium				P
Titanium				P
Vanadium				P
Zinc				P

Color Before
Color After

Clarity Before:
Clarity After:

Texture

Artifacts

Comments Sample = 0.00 % Solids. Total Metals Digestion only!
 EPA QC-7A Trace Metals Aqueous Reference Standard.
 (External Control Standard)

Non-Radiological Closeout Report
 for Building 779
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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 659 PA Inorganic Laboratories Sample No. 1

Lab Sample ID, X-96A2065-035 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample ID.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample 100.0000

Date Sampled: 5/13/98 SDG No.: MAY26

Lab Receipt Date: 5/13/98 QC Report No.: SD052698.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S ?

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Boron	0.2333	B		P
Beryllium	0.0160	U		P
Cadmium	0.0660	U		P
Calcium	7225143	B		P
Chromium	0.3600	U		P
Cobalt	0.0160	U		P
Copper	0.5000	U		P
Iron	0.8000	U		P
Lead	0.2400	U		P
Magnesium	0.0373	B		P
Manganese	0.0660	B		P
Molybdenum	0.0160	U		P
Nickel	0.1500	U		P
Phosphorus	1.6000	U		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	1.9077	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.3111	B		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 659 PA Inorganic Laboratories Sample No. 2

Lab Sample ID X-98A2065-035 D Bldg 779 Solid Paint Sample Lab Duplicate

Section: ICPAES Lab Sample LD's beginning with X* indicates TCLP Extract

% Solids for Sample: 100.0000

Date Sampled: 6/13/98 SDG No.: MAY28

Lab Receipt Date: 6/13/98 QC Report No.: SD062698.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L N V * E O O S †

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.0000	U		P
Arsenic	0.0000	U		P
Barium	0.2001	B		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	70.0000	B		P
Chromium	0.1500	U		P
Cobalt	0.0100	U		P
Copper	0.0000	U		P
Iron	0.0000	U		P
Lead	0.0000	U		P
Magnesium	13.000	B		P
Manganese	0.0000	B		P
Molybdenum	0.0000	U		P
Nickel	0.1500	U		P
Phosphorus	1.0000	U		P
Selenium	0.0000	U		P
Silver	0.0000	U		P
Strontium	1.0000	B		P
Thallium	0.0000	U		P
Titanium	0.0000	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 659 PA Inorganic Laboratories Sample No.: 3

Lab Sample ID: X-98A2065-036 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample IDs beginning with X indicates TCLP Extract

% Solids for Sample 100.0000

Date Sampled: 5/13/98 SDG No.: MAY26

Lab Receipt Date: 5/13/98 QC Report No.: SD052696.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.2751	B		P
Beryllium	0.0160	U		P
Cadmium	0.0800	U		P
Calcium	682.8910	B		P
Chromium	0.1600	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.2400	U		P
Magnesium	10.6395	B		P
Manganese	0.0648	B		P
Molybdenum	0.1800	U		P
Nickel	0.1600	U		P
Phosphorus	1.5000	U		P
Selenium	0.3800	U		P
Silver	0.0900	U		P
Strontium	1.7965	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was used to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories Sample No. 4

Lab Sample ID: X-98A2066-037 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with X indicates TCLP Extract.

% Solids for Sample : 100.0000

Date Sampled: 5/13/98 SDG No. MAY26

Lab Receipt Date: 5/13/98 QC Report No.: SD052698.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.0000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.3129	B		P
Beryllium	0.0100	U		P
Cadmium	0.0000	U		P
Calcium	684.1882	B		P
Chromium	0.1500	U		P
Cobalt	0.3162	B		P
Copper	0.3000	U		P
Iron	0.0000	U		P
Lead	0.2400	U		P
Magnesium	10.8444	B		P
Manganese	1.2897	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	1.5000	U		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	2.4528	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No.: 9

Lab Sample ID: X-98A2065-038 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample ID.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample : 100.0000

Date Sampled: 6/13/98 SDG No.: MAY25

Lab Receipt Date: 6/13/98 QC Report No.: SD052698.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L H V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Bismuth	0.4584	B		P
Beryllium	0.0150	U		P
Cadmium	0.0600	U		P
Calcium	604.8391	B		P
Chromium	0.1500	U		P
Cobalt	0.1800	U		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.2400	U		P
Magnesium	13.4433	B		P
Manganese	0.3584	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	2.0743	B		P
Selenium	0.3600	U		P
Silver	0.0600	U		P
Strontium	4.5080	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.8397	B		P

Color Before: Brown Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh brown solids left on TCLP Filter.

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No.: 10

Lab Sample ID X-98A2065-039 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample LD.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample : 100.0000

Date Sampled: 5/13/98 SDG No.: MAY25

Lab Receipt Date: 5/13/98 QC Report No.: SD052598.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1500	U		P
Beryllium	0.0150	U		P
Calcium	0.0600	U		P
Calcium	58.8622	B		P
Chromium	0.1500	U		P
Cobalt	0.0600	B		P
Copper	0.0000	U		P
Iron	0.0000	U		P
Lead	11.9907			P
Magnesium	2.2787	B		P
Manganese	0.2801	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	6.7200	B		P
Selenium	0.3600	U		P
Silver	0.0000	U		P
Strontium	0.0942	B		P
Thallium	0.3000	U		P
Titanium	0.7503	B		P
Vanadium	0.2400	U		P
Zinc	5.4366	B		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture:

Artifacts: Fine mesh white solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was used to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 659 PA Inorganic Laboratories Sample No.: 11

Lab Sample ID: X-08A2068-040 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample IDs beginning with 'X' indicates TCLP Extract

% Solids for Sample: 100.0000

Date Sampled: 5/13/98

SDG No.: MAY26

Lab Receipt Date: 5/13/98

QC Report No.: SD052508.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1000	B		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	407.2573	U		P
Chromium	0.1600	U		P
Cobalt	0.2000	B		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.2400	U		P
Magnesium	37.580	B		P
Manganese	0.2700	B		P
Molybdenum	0.1500	U		P
Nickel	0.1600	U		P
Phosphorus	6.5436	B		P
Selenium	0.3000	U		P
Silver	0.1227	B		P
Strontium	0.5301	B		P
Thallium	0.3000	U		P
Titanium	0.7032	B		P
Vanadium	0.2400	U		P
Zinc	7.3648	B		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh white solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No. 5
 Lab Sample ID: X-86A2065-041 Bldg 779 Solid Paint Sample
 Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.
 % Solids for Sample: 100.0000
 Date Sampled: 5/13/98 SDG No.: MAY26
 Lab Receipt Date: 6/13/98 QC Report No.: SD052696.RPT
 Matrix: Water _____
 Soil _____
 Sludge _____
 Other X _____

Elements Identified and Measured

Concentration Units: mg/L

N V - E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.3000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.2000	B		P
Beryllium	0.0100	U		P
Cadmium	0.0000	U		P
Calcium	236.9701	B		P
Chromium	0.1500	U		P
Cobalt	0.1000	U		P
Copper	0.2000	U		P
Iron	0.6000	U		P
Lead	0.5502	B		P
Magnesium	140.7270	B		P
Manganese	0.0002	B		P
Molybdenum	0.1000	U		P
Nickel	0.1000	U		P
Phosphorus	1.5000	U		P
Selenium	0.2000	U		P
Silver	0.0000	U		P
Strontium	0.6049	B		P
Thallium	0.3000	U		P
Thorium	0.0000	U		P
Vanadium	0.2400	U		P
Zinc	0.3000	U		P

Color Before: White Clarity Before: Cloudy

Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh white solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name **Building 659 PA Inorganic Laboratories** Sample No.: **12**

Lab Sample ID: **X-08A2065-042** Bldg **779 Solid Paint Sample**

Section: **ICPAES** Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample : **100.0000**

Date Sampled: **5/13/98** SDG No. : **MAY25**

Lab Receipt Date: **5/13/98** QC Report No.: **SD062598.RPT**

Matrix: **Water** _____
Soil _____
Sludge _____
Other **X** _____

Elements Identified and Measured

Concentration Units: **mg/L**

N V * E O O S +

Analyte	Concentration	Q	Q	M
Aluminum	0.8000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.3328	B		P
Beryllium	0.0160	U		P
Calcium	0.0600	U		P
Calcium	176.3730	B		P
Chromium	0.1600	U		P
Cobalt	0.1600	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.2400	U		P
Magnesium	63.0068	B		P
Manganese	0.0300	U		P
Molybdenum	0.1600	U		P
Nickel	0.1600	U		P
Phosphorus	1.5000	U		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	0.6094	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	0.4332	B		P

Color Before: **White** Clarity Before: **Cloudy**

Color After: **Colorless** Clarity After: **Clear**

Texture

Artifacts: **Fine mesh white solids left on TCLP Filter.**

Comments: **Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.**

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 659 PA Inorganic Laboratories Sample No. 13

Lab Sample ID. X-98A2065-043 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY26

Lab Receipt Date: 5/13/98 QC Report No.: SD052598.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.8000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.1641	B		P
Beryllium	0.0180	U		P
Cadmium	0.0600	U		P
Calcium	499.4211	B		P
Chromium	0.1600	U		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	0.2400	U		P
Magnesium	2.6630	B		P
Manganese	0.5778	B		P
Molybdenum	0.1600	U		P
Nickel	0.1600	U		P
Phosphorus	1.5000	U		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	2.1327	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	1.2758	B		P

Color Before: Brown Clarity Before: Cloudy
 Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was used to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories Sample No.: 14

Lab Sample ID: X-98A2085-044 Bldg 779 Solid Paint Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 5/13/98 SDG No.: MAY25

Lab Receipt Date: 5/13/98 QC Report No.: 8D052598.RPT

Matrix: Water
Soil
Sludge
Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	Q	Q	M
Aluminum	0.9000	U		P
Antimony	0.3000	U		P
Arsenic	0.3000	U		P
Barium	0.2184	U		P
Beryllium	0.0150	U		P
Cadmium	0.0020	U		P
Calcium	7201241	B		P
Chromium	0.01600	U		P
Cobalt	0.01600	U		P
Copper	0.3000	U		P
Iron	0.8000	U		P
Lead	0.2900	U		P
Magnesium	0.3691	U		P
Manganese	0.8260	U		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	1.9000	U		P
Selenium	0.9000	U		P
Silver	0.0000	U		P
Strontium	3.7047	B		P
Thallium	0.9000	U		P
Titanium	0.0800	U		P
Vanadium	0.2400	U		P
Zinc	0.6132	B		P

Color Before: Brown Clarity Before: Cloudy
 Color After: Colorless Clarity After: Clear

Texture

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids. Pressure filtration of the TCLP solids extract through a standard TCLP pressure filtration unit, containing a 8.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories Sample No 1

Lab Sample ID X-98A5204-001 Bldg 779 Solid Sample

Section ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample 100.0000

Date Sampled 7/21/98 SDG No.: JUL14

Lab Receipt Date 7/21/98 QC Report No.: SD071498.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

Analysis	Concentration	C	N	V	E	O	S	+
Aluminum	0.9000	U	N		Q			M
Antimony	0.5165	B						P
Arsenic	0.3000	U						P
Barium	0.2772	B						P
Beryllium	0.0150	U						P
Cadmium	0.0800	U						P
Calcium	0.7958	U						P
Chromium	0.1800	U						P
Cobalt	0.1800	U						P
Copper	0.3000	U						P
Iron	18.2782	B						P
Lead	0.6954	B						P
Magnesium	0.6000	U						P
Manganese	0.4055	B						P
Molybdenum	0.1500	U						P
Nickel	0.1500	U						P
Phosphorus	456.4572	B						P
Selenium	0.3600	U						P
Silver	0.0500	U						P
Strontium	0.0300	U						P
Thallium	0.3000	U						P
Titanium	0.0500	U						P
Vanadium	0.2400	U						P
Zinc	797.4954	B						P

Color Before Colorless Clarity Before Clear
 Color After Brown Clarity After Cloudy

Texture _____
 Arifacts Fine mesh brown solids left on TCLP Filter

Comments Sample = 100 % solids Pressure filtration of the TCLP solids extract through a standard pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter was performed to obtain the TCLP final sample extract.

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 for Building 779
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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Building 559 PA Inorganic Laboratories Sample No: 2

Lab Sample ID: X-98A5204-002 Bldg 779 Solid Sample

Section: ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract.

% Solids for Sample: 100.0000

Date Sampled: 7/21/98 SDG No.: JUL14

Lab Receipt Date: 7/21/98 QC Report No.: SD071498 RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/l.

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	1.1623	B	N	P
Antimony	0.7283	B		P
Arsenic	0.3000	U		P
Barium	2.7395	B		P
Beryllium	0.0150	U		P
Cadmium	0.0000	U		P
Calcium	2.6125	B		P
Chromium	1.0230	B		P
Cobalt	0.1500	U		P
Copper	0.3000	U		P
Iron	7.3268	B		P
Lead	0.7362	B		P
Magnesium	0.6000	U		P
Manganese	0.3162	B		P
Molybdenum	0.1500	U		P
Nickel	0.1617	B		P
Phosphorus	359.2050	B		P
Selenium	0.3600	U		P
Silver	0.0900	U		P
Strontium	0.0300	U		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.2400	U		P
Zinc	601.5051	B		P

Color Before: Colorless Clarity Before: Clear

Color After: Brown Clarity After: Cloudy

Texture:

Artifacts: Fine mesh brown solids left on TCLP Filter

Comments: Sample = 100 % solids Pressure filtration of the TCLP solids extract through a standard pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter, was performed to obtain the TCLP final sample extract.

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 for Building 779
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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories Sample No. 3
 Lab Sample ID X-98A5204-002 D Bldg 779 Solid Sample Lab Duplicate
 Section ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract
 % Solids for Sample 100.0000
 Date Sampled 7/21/98 SDG No.: JUL14
 Lab Receipt Date 7/21/98 QC Report No.: SD071498.RPT
 Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

Analyte	Concentration	C	N	V	E	O	S	+	M
Aluminum	1.1408	B	N						P
Antimony	0.8181	B							P
Arsenic	0.5000	U							P
Barium	2.4185	B							P
Beryllium	0.0180	U							P
Cadmium	0.0600	U							P
Calcium	2.5632	B							P
Chromium	1.0218	B							P
Cobalt	0.1500	U							P
Copper	0.3000	U							P
Iron	7.2068	B							P
Lead	0.7371	B							P
Magnesium	0.6000	U							P
Manganese	0.3075	B							P
Molybdenum	0.1500	U							P
Nickel	0.1500	U							P
Phosphorus	347.6638	B							P
Selenium	0.3600	U							P
Silver	0.0600	U							P
Strontium	0.0300	U							P
Thallium	0.3000	U							P
Titanium	0.0600	U							P
Vanadium	0.2400	U							P
Zinc	601.5393	B							P

Color Before Colorless Clarity Before Clear
 Color After Brown Clarity After Cloudy

Texture _____
 Artifacts Fine mesh brown solids left on TCLP Filter

Comments Sample = 100 % solids Pressure filtration of the TCLP solids extract through a standard 7 pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter was performed to obtain the TCLP final sample extract.

FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories Sample No 4
 Lab Sample ID X-TCLP EXT #1 TCLP Extraction Fluid Reagent Blank
 Section ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract
 % Solids for Sample < 0.5000
 Date Sampled 7/27/98 SDG No.: JUL14
 Lab Receipt Date 7/27/98 QC Report No.: SD071498.RPT
 Matrix: Water X
 Soil _____
 Sludge _____
 Other _____

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	U	C	N	V	E	O	O	S	+	M
Aluminum	0.3000	U		N							P
Antimony	0.1000	U									P
Arsenic	0.1000	U									P
Barium	0.0500	U									P
Beryllium	0.0050	U									P
Cadmium	0.0200	U									P
Calcium	0.2000	U									P
Chromium	0.0500	U									P
Cobalt	0.0500	U									P
Copper	0.1000	U									P
Iron	0.2000	U									P
Lead	0.0800	U									P
Magnesium	0.2000	U									P
Manganese	0.0100	U									P
Molybdenum	0.0500	U									P
Nickel	0.0500	U									P
Phosphorus	0.5000	U									P
Selenium	0.1200	U									P
Silver	0.0300	U									P
Strontium	0.0100	U									P
Thallium	0.1000	U									P
Titanium	0.0200	U									P
Vanadium	0.0800	U									P
Zinc	0.1000	U									P

Color Before Colorless Clarity Before Clear
 Color After Colorless Clarity After Clear
 Texture _____
 Artifacts Nothing left on TCLP Filter
 Comments Sample < 0.50 % solids. Therefore the filtered sample is taken to be the final TCLP extra Pressure filtration of the initial sample through a standard TCLP pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter was performed to obtain the final TCLP filtered sample extract.

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories SAMPLE NO
 Lab Sample ID EPA QC-21 Standard 5
 Section ICPAES Lab Sample I.D.s beginning with
 % Solids (0 - N/A) . 0 0000 X indicates TCLP Extract
 Date Sampled. 7/28/98 SDG No.: JUL14
 Lab Receipt Date: 7/28/98 QC Report No.: SD071498.RPT
 Matrix: Water X Soil _____ Sludge _____ Other _____

Elements Identified and Measured

Concentration Units: (mg/L)

Analyte	Concentration	C	Q	M
Aluminum				P
Antimony	4.1576	B		P
Arsenic	4.0165	B		P
Barium				P
Beryllium	4.0921	B		P
Cadmium	4.2376			P
Calcium	4.4200	B		P
Chromium	4.3829	B		P
Cobalt	4.0990	B		P
Copper	3.9724	B		P
Iron	4.0057	B		P
Lead	4.3679	B		P
Magnesium	4.3797	B		P
Manganese	4.0136	B		P
Molybdenum	4.3133	B		P
Nickel	4.0577	B		P
Phosphorus				P
Selenium	3.9512			P
Silver				P
Strontium	4.2148	B		P
Thallium	4.0262	B		P
Titanium	3.9559	B		P
Vanadium	4.2749	B		P
Zinc	4.2116	B		P

Color Before
Color After

Clarity Before
Clarity After

Texture

Artifacts

Comments

Sample = 0.00 % Solids Total Metals Digestion only
 EPA QC-21 Trace Metals Aqueous Reference Standard
 (External Control Standard)

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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET

Lab Name Building 559 PA Inorganic Laboratories SAMPLE NO
 Lab Sample ID EPA QC-7A Standard 6
 Section ICPAES Lab Sample LD's beginning with
 % Solids (0 - N/A) 0.0000 X indicates TCLP Extract.
 Date Sampled 7/20/98 SDG No. JUL14
 Lab Receipt Date 7/28/98 QC Report No.: SD071498.RPT
 Matrix: Water Soil Sludge Other

Elements Identified and Measured

Concentration Units: (mg/L)

Analyte	Concentration	C	Q	M
Aluminum	4.3147	B		P
Antimony				P
Arsenic				P
Barium	4.2273	B		P
Beryllium				P
Cadmium				P
Calcium				P
Chromium				P
Cobalt				P
Copper				P
Iron				P
Lead				P
Magnesium				P
Manganese				P
Molybdenum				P
Nickel				P
Phosphorus				P
Selenium				P
Silver	1.9345	B		P
Strontium				P
Thallium				P
Titanium				P
Vanadium				P
Zinc				P

Color Before _____ Clarity Before _____ Texture _____
 Color After _____ Clarity After _____

Artifacts _____

Comments Sample = 0.00 % Solids Total Metals Digestion only!
 EPA QC-7A Trace Metals Aqueous Reference Standard
 (External Control Standard)

Non-Radiological Closeout Report
 for Building 779
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FORM 1A-1

INORGANIC ANALYSIS DATA SHEET



Lab Name Building 559 PA Inorganic Laboratories Sample No 2

Lab Sample ID X-99A4069-001 Bldg 782 Solid Sample

Section ICPAES Lab Sample I.D.s beginning with 'X' indicates TCLP Extract

% Solids for Sample 100 0000

Date Sampled: 12/8/98 SDG No JAN05

Lab Receipt Date 12/14/98 QC Report No.: SD010600.RPT

Matrix: Water _____
 Soil _____
 Sludge _____
 Other X

Elements Identified and Measured

Concentration Units: mg/L

N V * E O O S +

Analyte	Concentration	C	Q	M
Aluminum	0.9000	U		P
Antimony	0.3160	B		P
Arsenic	0.3000	U		P
Barium	0.2169	B		P
Beryllium	0.0150	U		P
Cadmium	0.0600	U		P
Calcium	113.1324	B		P
Chromium	0.1500	U		P
Cobalt	1.4333	B		P
Copper	0.3000	U		P
Iron	0.6000	U		P
Lead	62.4330			P
Magnesium	1.3311	B	E	P
Manganese	0.1929	B		P
Molybdenum	0.1500	U		P
Nickel	0.1500	U		P
Phosphorus	10.9944	B		P
Selenium	0.3000	U		P
Silver	0.0000	U		P
Strontium	0.4239	B		P
Thallium	0.3000	U		P
Titanium	0.0600	U		P
Vanadium	0.1000	U		P
Zinc	16.7907	B		P

Color Before Orange Clarity Before Cloudy

Color After Colorless Clarity After Clear

Texture F

Artifacts White and red particulates left on TCLP Filter

Comments Sample = 100 % solids Pressure filtration of the TCLP solids extract thro pressure filtration unit, containing a 0.7 micron borosilicate glass fiber filter to obtain the TCLP final sample extract.

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 for Building 779
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Appendix E
RCRA Hazardous Substances
Results (Chemicals)

RCRA Hazardous Substances Results

Sampling Required						
Room	Item	Component	g/l Pu	Comments	RIN	Sample Numbers
Building 727	Diesel generator	diesel fuel	N/A	Viscosity, particulate contaminants, microbial contaminants	99A3143	001 001
Building 782	Tank 401	water	1 99E-07	Non-RCRA	99A5532	001 001- 003
Building 783	Tower cooling water	water reservoir CWR-V-980, P-783-03	1 60E-08	001 001- 11 ppm for Cr, the rest were non-RCRA	99A3395	001 001- 003
Building 783	Tower cooling water	water reservoir CWR-V-980, P-783-03	1 00E-08	Non- RCRA	99A4705	001 001- 002
Building 783	Tower cooling water	water reservoir CWR-V-980, P-783-03	5 00E-09	Non- RCRA	99A4705	002 001- 002
Building 783	Tower cooling water	water reservoir CWR-V-982, P-783-04	1 00E-08	Non- RCRA	99A3395	002 001- 003
Building 783	Tower cooling water	water reservoir CWR-V-982, P-783-04	5 00E-09	Non-RCRA	99A4705	003 001- 002
Building 783	Tower cooling water	water reservoir CWR-V-982, P-783-04	9 00E-09	Non-RCRA	99A4705	004 001- 002
Building 783	Tower cooling water	water reservoir CWR-V-982, P-783-04	1 20E-08	Non-RCRA	99A4705	005 001- 002
Building 783	Tower spray water	P-783-07/08	1.4E-08 5E-09 8E-09	Non- RCRA	99A4705	006 001- 002, 007 001- 002, 008 001- 002
Building 783	Pit	water	1 7 E-8 1 4E-8 9E-9 1 5E-8	Non- RCRA	99A6078	001 001- 003 002 001- 003 003 001- 003 004 001- 003

Appendix F
Waste and Environmental Management System
Area Location Report
Building 782 Temporary Unit

F

Area Locations (WEMF_6600)

Building: 782 Unit: 947 Room: NA

SCA Exceeds U-235 Gram Limit: BUR Code: N/A

55 GAL

N N/A REPAIRING Y

INACTIVE Date Activated: 01/01/90 Uncontaminated: 02/12/93

SOLVENT WIPES

Add Emp
List Emp

Owner Emp Nbr

Add Emp
List Emp

Owner's Name

Bar Code Error

Bar Code Error

List Emp

Waste Type

Container

12/1

Schommer, Ruth

From Zbryk, Kathy
Sent Wednesday, November 17, 1999 1 52 PM
To Hopkins, Ted, Sollner, Greg
Cc Hickman, Mark, Schommer, Ruth, Ericson, Dave
Subject Documentation of No Release

On October 10 - 12, 1999, diesel tank number 18, an AST, was drained of fuel from the west side of Building 727. The tank was transported using Site transportation to Building 331 for future on-site use. The tank was accepted by Bill Brokaw.

The following activities were performed on the tank prior to removal. On Oct 12, 1999 the ancillary equipment to tank 18 was blanked. On October 22, 1999, the diesel tank was removed and subsequently accepted by Site garage personnel. Secondary containment remained intact until the tank was removed. The secondary containment was inspected by the project Construction Manager, Dave Ericson, to verify that there was no release of diesel fuel. No evidence of fuel leakage was observed.

Please contact me at extension 6647 if you have any questions.

Kathy Zbryk

CC
To AST file

142/142