

40-8724

B. KOH & ASSOCIATES, INC.

*Environmental Restoration
Radioactive Waste Management*

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September 19, 1996

Mr. Timothy Johnson, Section Leader
Materials Decommissioning Section
Low Level Waste and Decommissioning Projects Branch
Division of Waste Management
Office of Nuclear Materials Safety and Safeguards
US Nuclear Regulatory Commission
11555 Rockville Pike
Washington DC 20555

Subject: Preliminary Radiological Survey Data for the Chemetron Harvard Avenue
Closure Cell

Dear Mr. Johnson:

The enclosed preliminary radiological survey data for the Chemetron Harvard Avenue Closure Cell has been provided for your use to support the NRC/ORISE Confirmatory Survey scheduled for September 26 and 27, 1996.

The analytical data for the soil sample analyses have been presented in Total Uranium (pCi/g) based on an assumed conservative activity ratio of 1.5 Total Uranium to U-238. However, the actual activity ratio is approximately 1.2 Total Uranium to U-238 which is based on the average alpha spectroscopy analysis for three soil samples obtained from the Harvard Avenue cell. Therefore, the actual Total Uranium as presented in the enclosed preliminary data will be slightly less than those reported. In the Final Report, the Total Uranium values will be presented based on the 1.2 ratio.

I have also attached a copy of the analytical report for two post remediation samples (Sample locations F-21 and F-23 located outside of the cell).

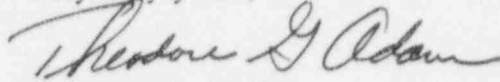
DA96:066 Chemetron

9609300146 960919
PDR ADOCK 04008724
C PDR

NL10
11

If you have any questions, please don't hesitate to give me a call at (716) 592-3431.

Very truly yours,

A handwritten signature in cursive script, reading "Theodore G. Adams". The signature is written in dark ink and is positioned above the printed name and title.

Theodore G. Adams
Technical Manager

Enclosure

cc: D. Nelson
B. Koh

DRAFT

RWP # 054

Handed

FIELD SURVEY MAP LOCATION can / AREA Perimeter of Cell Prior to Backfilling with Clay

DATE 8/14/96

TIME 1030 hrs

REASON Characterization

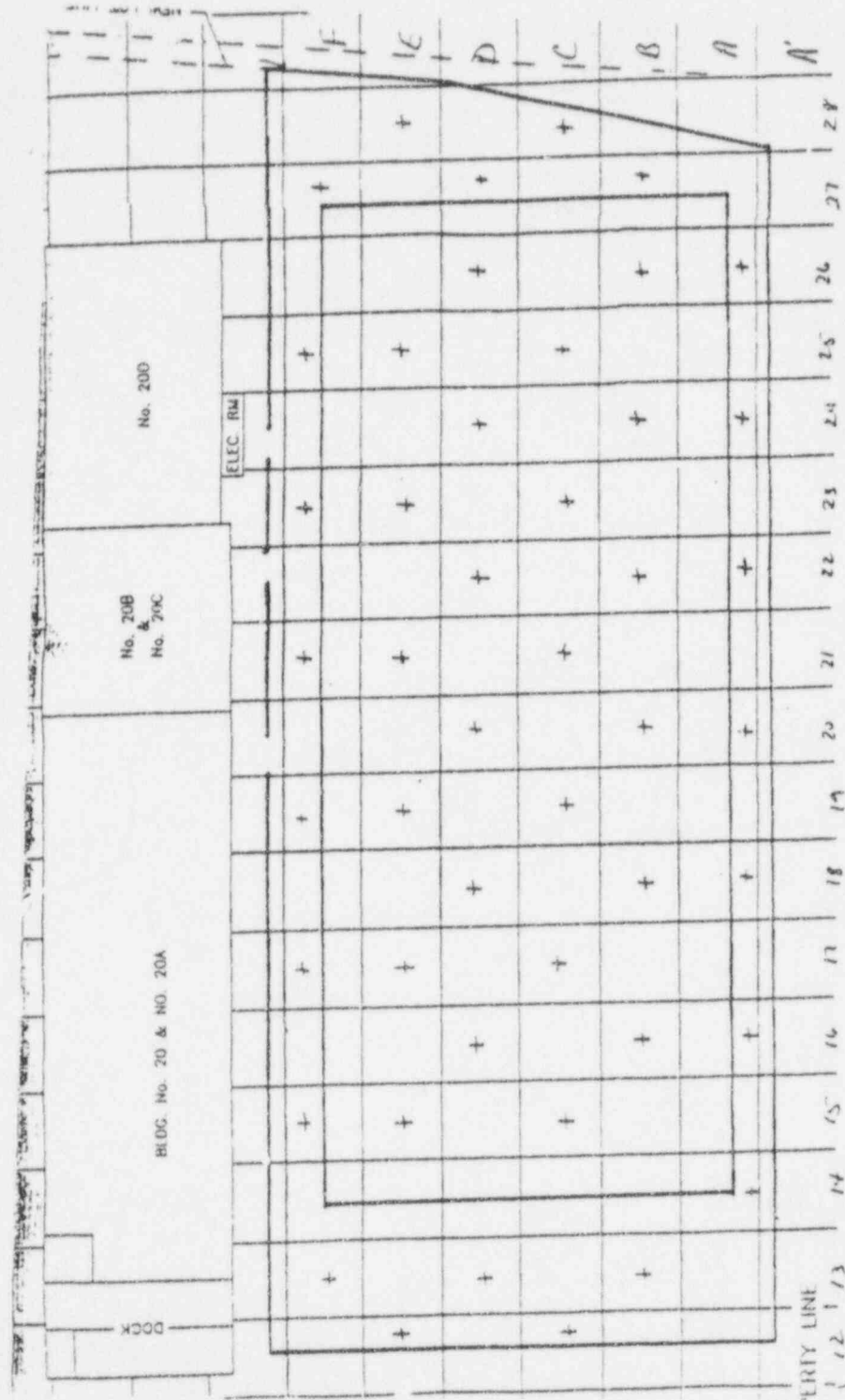
INSTRUMENT USED L 2221 L 2221

SERIAL NO. 99718 108880

N

REMARKS

Area covered with 2' x 2' grid and 409 GPR points detected. No I detector was used only to identify areas exhibiting ground activity, if any. Areas were then further characterized with 409 GPR portable detectors. No areas greater than 2 times ground area background was observed during the walk-over. Areas were further characterized by collecting soil samples for lab analysis. Grid sections E-1 & E-2 were re-sampled after initial sampling and re-sampled.



SURVEYED BY: Michael J. Talar

REVIEWED BY: D. H. 2

Survey Record

Location: Harvard Cell - Perimeter

Reason for survey: CHARACTERIZATION

Survey Date: 8-19-96

Survey Time: 1230

Figure Number: [illegible]

Direct Survey Instruments					Smearable Contamination Instruments				
α Inst:	β γ Inst:	SN:	Cal Due:	Eff:	α Inst:	β γ Inst:	SN:	Cal Due:	Eff:
Bkg:	Bkg:	MDA:	MDCR:	cpm	Bkg:	Bkg:	MDA:	MDCR:	cpm
cpm	cpm	cpm	cpm	cpm	cpm	cpm	cpm	cpm	cpm
cpm/100cm ²	cpm/100cm ²	cpm/100cm ²	cpm/100cm ²	cpm/100cm ²	cpm/100cm ²	cpm/100cm ²	cpm/100cm ²	cpm/100cm ²	cpm/100cm ²

SCANNING INSTRUMENTS									
DATE	INST.	Ser. #	PROBE	PROBE Ser. #	EFF.	BKG. cpm	MDCR cpm	MDA dpm/100cm ²	
8-14-96	L-2221	109380	44-9	115670	0.12	61	100	2167	
8-13-96	L-2221	99138	44-10	119978	N/A	3500	N/A	N/A	

Surveyor (Signature)

Michael F LaBame

Date 8-19-96

Reviewed by (Signature)

to make a B&B

Date 9-13-96

RWP # 054

FIELD SURVEY MAP LOCATION

Howard

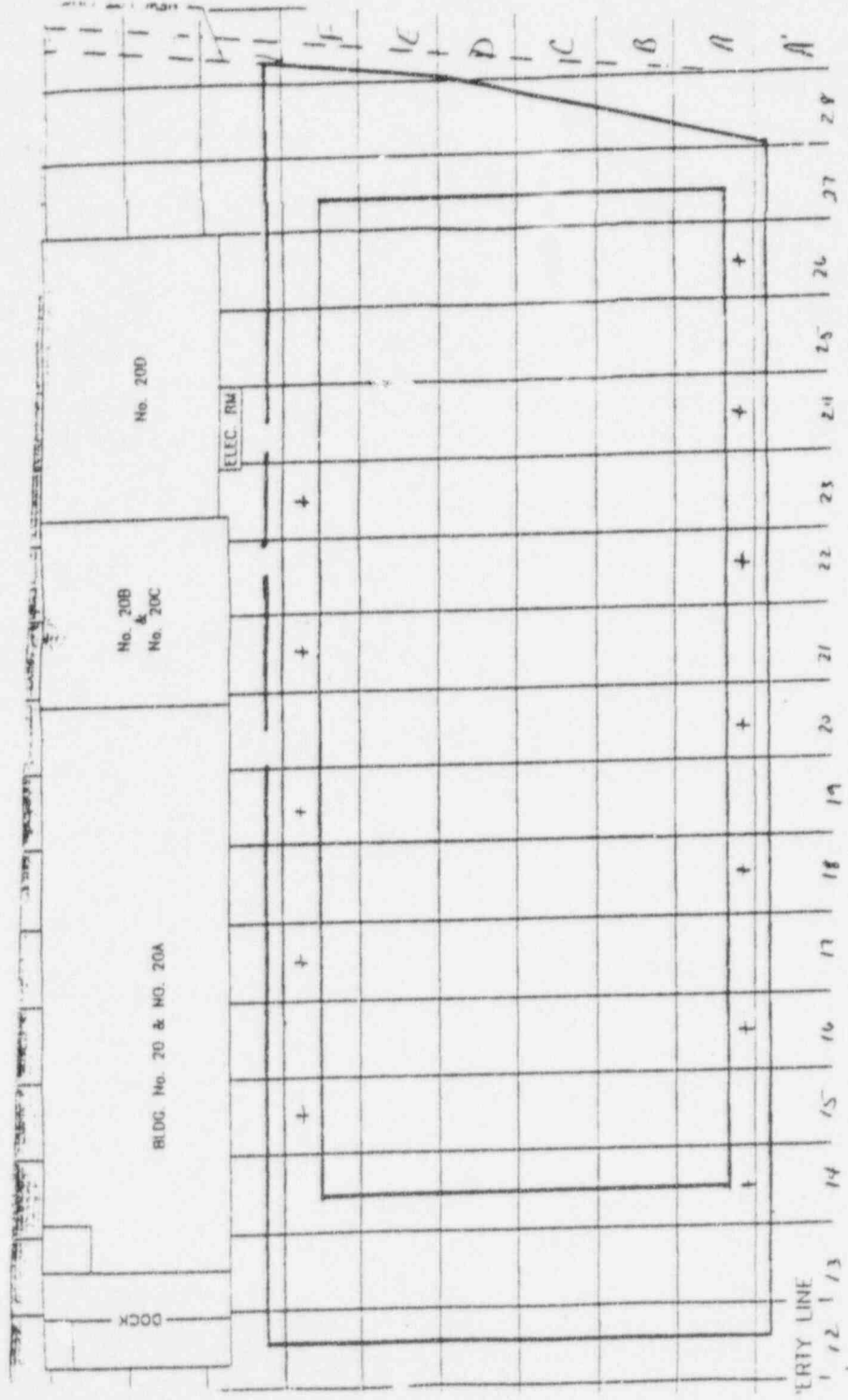
Cell

/ AREA Area Outside Cell Boundary (Perimeter)

DATE 8-19-96TIME 1500REASON Confirmatory SurveyINSTRUMENT USED L-2221/L-2221/BICRONSERIAL NO. 108858/108880/B709JREMARKS Direct measurements taken prior to collecting soil samples

DRAFT

N



SURVEYED BY:

Dave O. R. H.

REVIEWED BY:

Michael P. Jablon

Survey Record

Page 1

Location: Harvard Cell - Perimeter Soil Sampling

Survey Date: 8/19/96

Reason for survey: Confirmatory Survey

Survey Time: 1500

Figure Number: NA

NO.	Item	Direct Survey Instruments				Exposure Rate μ Rem/hr	Exposure Distance meters	Smearable Contamination	
		α	α	$\beta \gamma$	$\beta \gamma$			α	$\beta \gamma$
		Gross cpm	dpm/100cm ²	Gross cpm	dpm/100cm ²			dpm/100cm ²	dpm/100cm ²
A26	Harvard Cell	<MDCR	<MDA	<MDCR	<MDA	4	1	N/A	N/A
A14	Harvard Cell	<MDCR	<MDA	<MDCR	<MDA	5	1	N/A	N/A
A16	Harvard Cell	<MDCR	<MDA	118	475	6	1	N/A	N/A
A18	Harvard Cell	<MDCR	<MDA	101	333	5	1	N/A	N/A
A20	Harvard Cell	<MDCR	<MDA	<MDCR	<MDA	4	1	N/A	N/A
A22	Harvard Cell	<MDCR	<MDA	102	341	4	1	N/A	N/A
A24	Harvard Cell	<MDCR	<MDA	<MDCR	<MDA	4	1	N/A	N/A
F15	Harvard Cell	<MDCR	<MDA	<MDCR	<MDA	4	1	N/A	N/A
F17	Harvard Cell	<MDCR	<MDA	109	400	5	1	N/A	N/A
F19	Harvard Cell	<MDCR	<MDA	122	508	4	1	N/A	N/A
F21	Harvard Cell	<MDCR	<MDA	192	1091	5	1	N/A	N/A
F23	Harvard Cell	<MDCR	<MDA	103	350	4	1	N/A	N/A

Direct Survey Instruments			
α Inst:	L-2221	$\beta \gamma$ Inst:	L-2221
SN:	106858	SN:	106880
Cal Due:	1/10/97	Cal Due:	1/3/97
Eff:	0.11	Eff:	0.12
Bkg:	0.3 cpm	Bkg:	61 cpm
MDA:	84 dpm/100cm ²	MDA:	325 dpm/100cm ²
MDCR:	5 cpm	MDCR:	100 cpm

Smearable Contamination Instruments			
α Inst:	NA	$\beta \gamma$ Inst:	NA
SN:		SN:	
Cal Due:		Cal Due:	
Eff:		Eff:	
Bkg:		Bkg:	
MDA:		MDA:	
MDCR:		MDCR:	

Remarks: Alpha (Probe #112935) and Beta-Gamma (Probe #115670) readings taken on 8/18/96. Exposure rates taken on 8/18/96. Alpha and Beta-Gamma readings taken on soil surfaces.

Exposure Rate Instrument

γ Inst: BICRON
 SN: 8709J
 Cal Due: 1/26/97
 Bkg: 5 μ Rem/hr

Surveyor (Signature)

Dore A. Rife

Date 8-22-96

Reviewed by (Signature)

Michael P. Lohman

Date 8-22-96

OUTREACH LABORATORY

ANALYTICAL REPORT

PROJECT NO: 960423

CLIENT: B. Koh & Associates, Inc.

SITE: Chemetron

DATE SUBMITTED: 20-Aug-96

DATE REPORTED: 23-Aug-96

SAMPLE ID	DATE	MATRIX	U-238	U-238			U ¹
			MDA pCi/g	pCi/g			pCi/g
F15	Perimeter	8/18/96	SOIL	5.2	6.9	+/- 4.1	10.4
F17	Perimeter	8/18/96	SOIL	6.6	20.3	+/- 7.7	30.5
F19	Perimeter	8/18/96	SOIL	5.3	11.5	+/- 5.0	17.3
F21	Perimeter	8/18/96	SOIL	9.1	72.3	+/- 22.5	108.5
F23	Perimeter	8/18/96	SOIL	6.9	36.2	+/- 11.9	54.3
A26	Perimeter	8/18/96	SOIL	6.4	10.3	+/- 5.4	15.5
A24	Perimeter	8/18/96	SOIL	4.3	6.9	+/- 3.7	10.4
A22	Perimeter	8/18/96	SOIL	5.0	BDL		BDL
A20	Perimeter	8/18/96	SOIL	6.1	8.1	+/- 3.5	12.2
A18	Perimeter	8/18/96	SOIL	6.1	9.3	+/- 4.7	14.0
A16	Perimeter	8/18/96	SOIL	6.1	8.9	+/- 5.0	13.4
A14	Perimeter	8/18/96	SOIL	5.1	BDL		BDL

1. U238 activity multiplied by 1.5 to obtain U(Total) activity.
2. MDA = Minimum Detectable Activity
3. BDL = Below Detection Limit

OUTREACH LABORATORY

ANALYTICAL REPORT

PROJECT NO: 960490
CLIENT: B. Koh & Associates, Inc.
SITE: Chemetron
DATE SUBMITTED: 10-Sep-96
DATE REPORTED: 17-Sep-96

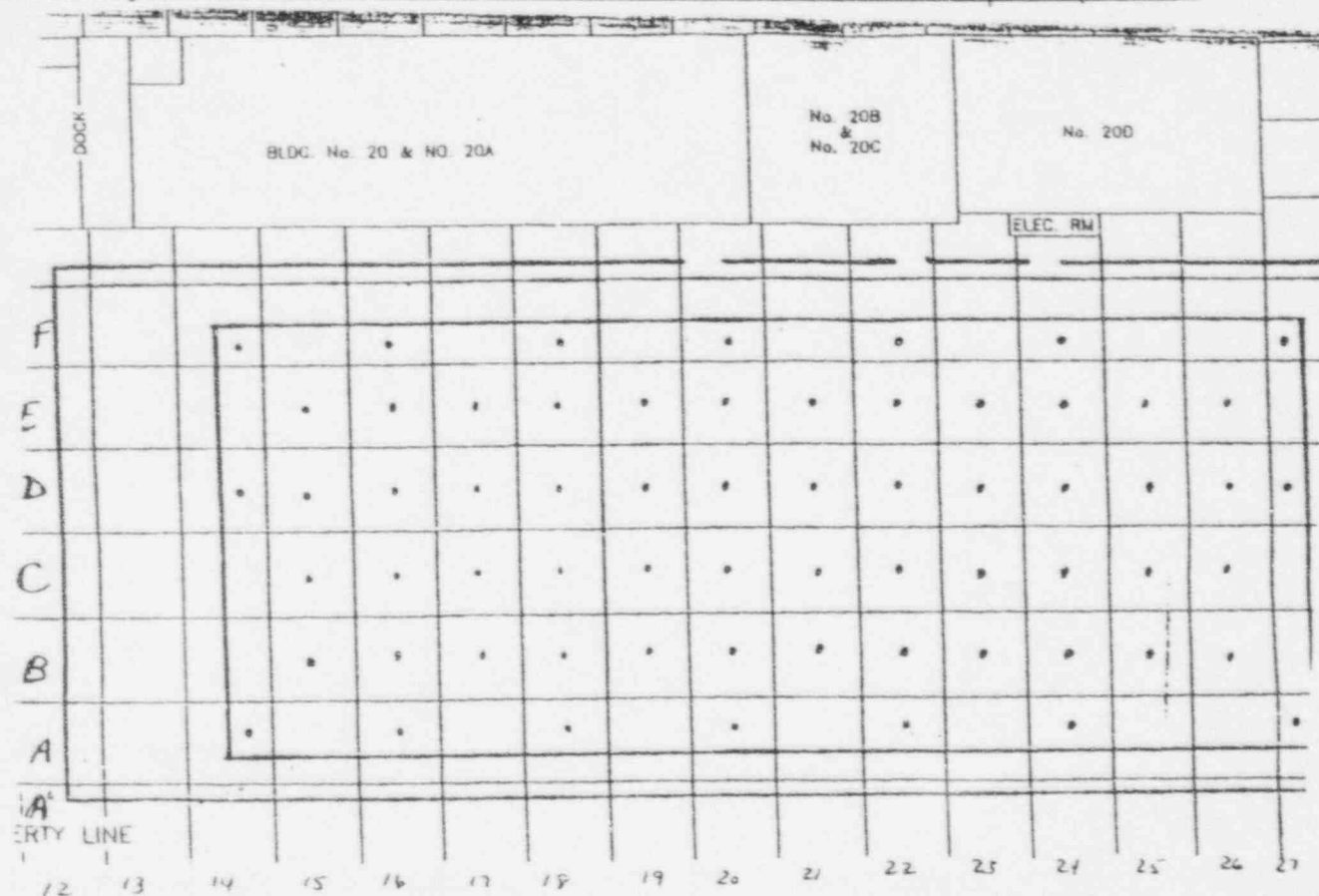
SAMPLE ID	DATE	MATRIX	U-238				U'
			MDA pCi/g	U-238 pCi/g			pCi/g
F21 Perimeter Resample	9/6/96	SOIL	3.6	12.3	+/-	4.5	18.5
F23 Perimeter Resample	9/6/96	SOIL	3.2	14.2	+/-	4.9	21.3

1. U238 activity multiplied by 1.5 to obtain U(Total) activity.
2. MDA = Minimum Detectable Activity
3. BDL = Below Detection Limit

RWP # 054FIELD SURVEY MAP LOCATION Howard Cell / AREA Within Cell BoundaryDATE 8-19-76 TIME 0830 REASON CharacterizationINSTRUMENT USED L 2221, L 2221 SERIAL NO. 99138, 108880**DRAFT**

N

REMARKS Areas scanned 100% with 2"x2" NaI and 44.9 GM Pancake probes. NaI probe was used only to identify areas within Cell with elevated activity. Areas were then further characterized with 44.9 GM pancake probes. No areas greater than 3 times general area background were observed during the walkovers. Each 1' lift of waste was scanned separately.

SURVEYED BY: Michael P. Jablon REVIEWED BY: Tom Regge

Survey Record

Location: Harvard Cell - Within Cell Boundary

Reason for survey: CHARACTERIZATION

Survey Date: 8-19-96

Survey Time: 0830

Figure Number: N/A

[illegible]

Direct Survey Instruments				Smearable Contamination Instruments			
α Inst:				α Inst:			
SN:				SN:			
Cal Due:				Cal Due:			
Eff:				Eff:			
Bkg:		cpm		Bkg:		cpm	
MDA:		dpm/100cm ²		MDA:		dpm/100cm ²	
MDCR:		cpm		MDCR:		cpm	
β γ Inst:				β γ Inst:			
SN:				SN:			
Cal Due:				Cal Due:			
Eff:				Eff:			
Bkg:		cpm		Bkg:		cpm	
MDA:		dpm/100cm ²		MDA:		dpm/100cm ²	
MDCR:		cpm		MDCR:		cpm	

SCANNING INSTRUMENTS

DATE	INST.	Ser. #	PROBE	PROBE Ser. #	EFF.	BKG. cpm	MDCR cpm	MDA dpm/100cm ²
8-9-96	L-222	99-139	44-10	115977	N/A	4000	N/A	N/A
8-9-96	L-222	103550	44-9	115670	0.13	60	99	2000
8-9-96	L-222	99-133	44-10	115977	N/A	3800	N/A	N/A
8-16-96	L-222	103580	44-9	115670	0.13	71	113	2100
8-16-96	L-222	99-138	44-10	115979	N/A	4100	N/A	N/A

Surveyor (Signature) Michael P. LaBare

Date 8-19-96

Reviewed by (Signature) [Signature]

Date 9-13-96

RWP # 054

FIELD SURVEY MAP LOCATION Harvard Cell / AREA Within Cell Boundary

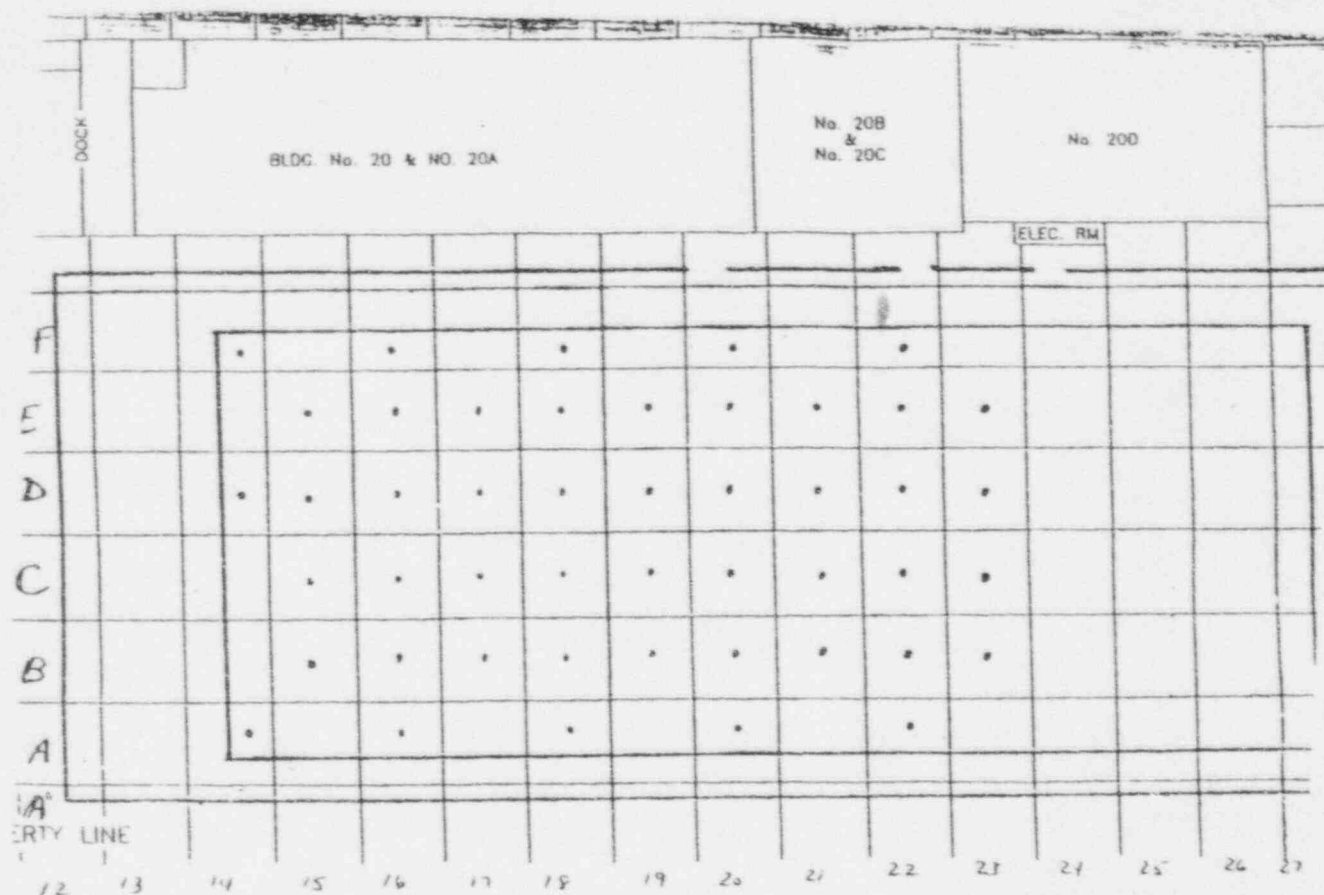
DATE 8-19-96 TIME 1005 REASON Confirmatory Survey

INSTRUMENT USED L-2221/L-2221/Bicon SERIAL NO. 108858/108880/B709J

REMARKS Direct measurements taken prior to collecting split spoon core-samples.

DRAFT

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SURVEYED BY:

Duane A. Piffard

REVIEWED BY:

Michael P. LaBare

Survey Record

Page 1

Location: Harvard Cell - Round #1 Waste Sampling

Survey Date: 8/19/96

Survey Time: 1005

Reason for survey: Confirmatory Survey

Figure Number: NA

NO.	Item	Direct Survey Instruments				Exposure Rate μ Rem/hr	Exposure Distance meters	Smearable Contamination	
		α		β γ				α	β γ
		Gross cpm	dpm/100cm ²	Gross cpm	dpm/100cm ²			dpm/100cm ²	dpm/100cm ²
A14	Harvard Cell	<MDCR	<MDA	<MDCR	<MDA	6	1	N/A	N/A
A16	Harvard Cell	<MDCR	<MDA	111	416	5	1	N/A	N/A
A18	Harvard Cell	<MDCR	<MDA	139	650	6	1	N/A	N/A
A20	Harvard Cell	<MDCR	<MDA	149	733	5	1	N/A	N/A
A22	Harvard Cell	<MDCR	<MDA	117	466	6	1	N/A	N/A
B15	Harvard Cell	<MDCR	<MDA	<MDCR	<MDA	7	1	N/A	N/A
B16	Harvard Cell	<MDCR	<MDA	147	716	6	1	N/A	N/A
B17	Harvard Cell	<MDCR	<MDA	117	466	7	1	N/A	N/A
B18	Harvard Cell	<MDCR	<MDA	<MDCR	<MDA	5	1	N/A	N/A
B19	Harvard Cell	<MDCR	<MDA	115	450	5	1	N/A	N/A
B20	Harvard Cell	<MDCR	<MDA	163	850	7	1	N/A	N/A
B21	Harvard Cell	<MDCR	<MDA	180	991	6	1	N/A	N/A
B22	Harvard Cell	<MDCR	<MDA	162	841	6	1	N/A	N/A
B23	Harvard Cell	<MDCR	<MDA	187	1050	5	1	N/A	N/A
C15	Harvard Cell	<MDCR	<MDA	129	566	5	1	N/A	N/A
C16	Harvard Cell	<MDCR	<MDA	117	466	5	1	N/A	N/A
C17	Harvard Cell	<MDCR	<MDA	164	858	5	1	N/A	N/A
C18	Harvard Cell	<MDCR	<MDA	112	425	4	1	N/A	N/A
C19	Harvard Cell	<MDCR	<MDA	<MDCR	<MDA	6	1	N/A	N/A
C20	Harvard Cell	<MDCR	<MDA	129	566	4	1	N/A	N/A
C21	Harvard Cell	<MDCR	<MDA	199	1150	5	1	N/A	N/A
C22	Harvard Cell	<MDCR	<MDA	156	791	5	1	N/A	N/A
C23	Harvard Cell	<MDCR	<MDA	161	833	7	1	N/A	N/A
D14	Harvard Cell	<MDCR	<MDA	<MDCR	<MDA	6	1	N/A	N/A
D15	Harvard Cell	<MDCR	<MDA	118	475	4	1	N/A	N/A
D16	Harvard Cell	<MDCR	<MDA	139	650	5	1	N/A	N/A
D17	Harvard Cell	<MDCR	<MDA	158	808	6	1	N/A	N/A
D18	Harvard Cell	<MDCR	<MDA	161	833	4	1	N/A	N/A
D19	Harvard Cell	<MDCR	<MDA	142	675	7	1	N/A	N/A
D20	Harvard Cell	<MDCR	<MDA	206	1208	7	1	N/A	N/A
D21	Harvard Cell	<MDCR	<MDA	153	766	5	1	N/A	N/A
D22	Harvard Cell	<MDCR	<MDA	145	700	5	1	N/A	N/A
D23	Harvard Cell	<MDCR	<MDA	190	1075	5	1	N/A	N/A
E15	Harvard Cell	<MDCR	<MDA	148	725	4	1	N/A	N/A
E16	Harvard Cell	<MDCR	<MDA	144	691	4	1	N/A	N/A
E17	Harvard Cell	<MDCR	<MDA	159	816	4	1	N/A	N/A

Location: Harvard Cell - Round #1 Waste SamplingSurvey Date: 8/19/96Reason for survey: Confirmatory SurveySurvey Time: 1005Figure Number: NA

NO.	Item	Direct Survey Instruments				Exposure Rate μ Rem/hr	Exposure Distance meters	Smearable Contamination	
		α	α	$\beta \gamma$	$\beta \gamma$			α	$\beta \gamma$
		Gross cpm	dpm/100cm ²	Gross cpm	dpm/100cm ²			dpm/100cm ²	dpm/100cm ²
E18	Harvard Cell	<MDCR	<MDA	136	625	5	1	N/A	N/A
E19	Harvard Cell	<MDCR	<MDA	144	691	5	1	N/A	N/A
E20	Harvard Cell	<MDCR	<MDA	139	650	5	1	N/A	N/A
E21	Harvard Cell	<MDCR	<MDA	126	541	6	1	N/A	N/A
E22	Harvard Cell	<MDCR	<MDA	162	841	5	1	N/A	N/A
E23	Harvard Cell	<MDCR	<MDA	159	816	4	1	N/A	N/A
F14	Harvard Cell	<MDCR	<MDA	117	466	5	1	N/A	N/A
F16	Harvard Cell	<MDCR	<MDA	179	983	6	1	N/A	N/A
F18	Harvard Cell	<MDCR	<MDA	155	783	5	1	N/A	N/A
F20	Harvard Cell	<MDCR	<MDA	191	1083	5	1	N/A	N/A
F22	Harvard Cell	<MDCR	<MDA	130	575	7	1	N/A	N/A

Direct Survey Instruments			
α Inst:	L-2221	$\beta \gamma$ Inst:	L-2221
SN:	108858	SN:	108880
Cal Due:	1/10/97	Cal Due:	1/3/97
Eff:	0.11	Eff:	0.12
Bkg:	0.3 cpm	Bkg:	61 cpm
MDA:	84 dpm/100cm ²	MDA:	325 dpm/100cm ²
MDCR:	5 cpm	MDCR:	100 cpm

Smearable Contamination Instruments			
α Inst:	NA	$\beta \gamma$ Inst:	NA
SN:		SN:	
Cal Due:		Cal Due:	
Eff:		Eff:	
Bkg:		Bkg:	
MDA:		MDA:	
MDCR:		MDCR:	

Remarks: Alpha (Probe #112935) and Beta-Gamma (Probe #115670) readings taken on 8/18/96. Exposure rates taken on 8/18/96. Alpha and Beta-Gamma readings were taken on soil surfaces.

Exposure Rate Instrument

γ Inst:	BICRON
SN:	B709J
Cal Due:	1/26/97
Bkg:	5 μ Rem/hr

Surveyor (Signature)

*Diana A. Ruffel*Date 8-22-96

Reviewed by (Signature)

*Michael P. Labaree*Date 8-22-96

OUTREACH LABORATORY

ANALYTICAL REPORT

PROJECT NO: 950431

CLIENT: B. Koh & Associates, Inc.

SITE: Chemetron

DATE SUBMITTED: 21-Aug-96

DATE REPORTED: 28-Aug-96

SAMPLE ID	DATE	MATRIX	U-238		U-238			U ¹ pCi/g
			MDA	pCi/g				
A14	Waste	8/19/96	SOIL	2.5	18.3	+/-	5.8	27.5
A16	Waste	8/19/96	SOIL	8.0	12.9	+/-	6.7	19.4
A20	Waste	8/19/96	SOIL	4.5	7.2	+/-	3.8	10.8
A22	Waste	8/19/96	SOIL	1.8	4.6	+/-	1.9	8.9
B15	Waste	8/19/96	SOIL	3.5	26.5	+/-	8.4	39.8
B17	Waste	8/19/96	SOIL	5.8	24.6	+/-	8.5	36.9
B18	Waste	8/19/96	SOIL	3.3	23.5	+/-	7.5	35.3
C15	Waste	8/19/96	SOIL	2.8	30.9	+/-	9.5	46.4
C16	Waste	8/19/96	SOIL	4.1	34.6	+/-	1.8	51.9
C17	Waste	8/19/96	SOIL	6.9	39.5	+/-	12.8	59.3
D14	Waste	8/19/96	SOIL	2.9	9.2	+/-	3.5	13.8
C19	Waste	8/19/96	SOIL	7.3	41.0	+/-	13.4	61.5
C20	Waste	8/19/96	SOIL	3.9	34.3	+/-	10.7	51.5
C22	Waste	8/19/96	SOIL	6.8	40.3	+/-	13.0	60.5
C23	Waste	8/19/96	SOIL	2.9	29.4	+/-	9.1	44.1
D15	Waste	8/19/96	SOIL	6.8	41.3	+/-	13.3	62.0
D16	Waste	8/19/96	SOIL	5.2	47.0	+/-	16.1	70.5
B21	Waste	8/19/96	SOIL	7.1	47.9	+/-	15.2	71.9
B19	Waste	8/19/96	SOIL	6.8	35.4	+/-	11.7	53.1
B20	Waste	8/19/96	SOIL	5.2	27.3	+/-	9.0	41.0
B22	Waste	8/19/96	SOIL	7.6	44.3	+/-	14.4	66.5
B23	Waste	8/19/96	SOIL	7.0	48.1	+/-	15.3	72.2
D17	Waste	8/19/96	SOIL	7.4	46.5	+/-	14.9	69.8
D18	Waste	8/19/96	SOIL	8.1	37.5	+/-	12.8	56.3
D21	Waste	8/19/96	SOIL	3.6	37.6	+/-	11.6	56.4
D20	Waste	8/19/96	SOIL	8.8	54.0	+/-	17.3	81.0
D19	Waste	8/19/96	SOIL	7.7	53.2	+/-	16.8	79.8
CP	-16-1441	8/19/96	SOIL	1.5	3.8	+/-	1.6	5.7

1. U238 activity multiplied by 1.5 to obtain U(Total) activity.
2. MDA = Minimum Detectable Activity
3. BDL = Below Detection Limit

OUTREACH LABORATORY

ANALYTICAL REPORT

PROJECT NO: 980433

CLIENT: B. Koh & Associates, Inc.

SITE: Chemetron

DATE SUBMITTED: 22-Aug-96

DATE REPORTED: 30-Aug-96

SAMPLE ID	DATE	MATRIX	U-238	U-238		U ¹
			MDA pCi/g	pCi/g	pCi/g	
D-22	Waste	8/19/96	SOIL	3.3	34.6 +/- 10.7	51.9
D-23	Waste	8/19/96	SOIL	4.3	26.2 +/- 8.4	39.3
F-16	Waste	8/19/96	SOIL	3.5	35.4 +/- 10.9	53.1
F-18	Waste	8/19/96	SOIL	3.5	29.2 +/- 9.1	43.8
F-20	Waste	8/19/96	SOIL	4.4	18.8 +/- 6.4	28.2
E-17	Waste	8/19/96	SOIL	2.9	31.4 +/- 9.7	47.1
E-18	Waste	8/19/96	SOIL	4.2	22.1 +/- 7.2	33.2
E-19	Waste	8/19/96	SOIL	4.0	24.2 +/- 7.8	36.3
E-20	Waste	8/19/96	SOIL	3.6	23.1 +/- 7.4	34.7
E-23	Waste	8/19/96	SOIL	4.3	21.2 +/- 7.1	31.8
C-21	Waste	8/19/96	SOIL	3.1	32.6 +/- 10.1	48.9
A-18	Waste	8/19/96	SOIL	3.4	9.8 +/- 3.8	14.7
E-22	Waste	8/19/96	SOIL	3.8	21.4 +/- 6.9	32.1
E-21	Waste	8/19/96	SOIL	3.7	24.2 +/- 7.7	36.3
F-22	Waste	8/19/96	SOIL	3.6	17.3 +/- 5.8	26.0
F-14	Waste	8/19/96	SOIL	4.2	4.7 +/- 3.1	7.1
C-18	Waste	8/19/96	SOIL	3.4	13.3 +/- 4.7	20.0
E-15	Waste	8/19/96	SOIL	3.4	29.3 +/- 9.1	44.0
E-16	Waste	8/19/96	SOIL	4.3	40.9 +/- 12.6	61.4
B-18	Waste	8/19/96	SOIL	3.9	27.9 +/- 8.9	41.9

1. U238 activity multiplied by 1.5 to obtain U(Total) activity.

2. MDA = Minimum Detectable Activity

3. BDL = Below Detection Limit